

TECHNICAL AUDIT REPORT

Product Shibboleth IdP & SP - version 5.1.6 & 3.5.1

2026/09/04

Version: 1.20

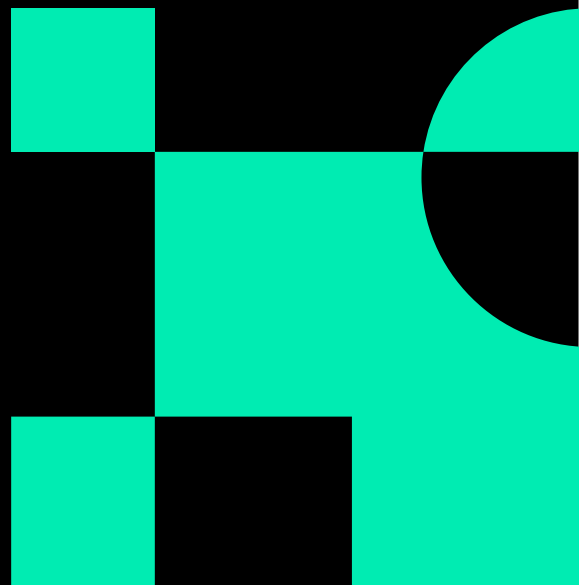
Reference: TAR-PUBLIC-Shibboleth-1.20

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EVOLUTION SHEET

Version	Description	Date
1.00	First public version, based on internal version TAR-Shibboleth-1.10	2026/06/18
1.10	Second version, based on reviews from Shibboleth developer	2026/07/03
1.20	Third version, based on exchanges with Shibboleth developer and ANSSI	2026/09/04

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1. INTRODUCTION

1.1 Document purpose

This document is produced as part of the evaluation of **Shibboleth IdP & SP** software in version **5.1.6 & 3.5.1**, an open source software developed and maintained by **Shibboleth Consortium**. It constitutes the Technical Audit Report (TAR) presenting the result of the evaluation work of the **ALMOND** laboratory.

This document is subject to technical and quality control by **ALMOND**. Updates to this document are made by the **ALMOND** project team.

This audit has been funded by French cybersecurity agency (ANSSI) as part of its efforts to support the security assessment of open-source software (more info at <https://cyber.gouv.fr/open-source-lanssi>).

The main objectives of this audit are double:

- Evaluate Shibboleth Security in an IAM context, federated authentication (SAML v2, OIDC) and resistance to malevolent usages.
- Control the applicability of ANSSI guides related to OpenID Connect and multifactor authentication.

1.2 Technical report identification

Table 1- ETR identification

Evaluation project name	Shibboleth
Document reference	TAR-PUBLIC-Shibboleth-1.20
Based on	TAR-Shibboleth-1.10
Evaluation date	2025/12/09 to 2026/04/08
Workload	60 man.days

1.3 Glossary

Table 2 - Glossary

Acronym	Definitions
ITSEF	Information Technology Security Evaluation Facility
NA	Not Applicable
ST	Security Target

TAR	Technical Audit Report
TOE	Target Of Evaluation
SP	Service Provider
IdP	Identity Provider
RP	Relaying Party
LDAP	Lightweight Directory Access Protocol
MITM	Man In The Middle
IPC	Inter-Process Communication
SAML	Security Assertion Markup Language
OIDC	OpenID Connect
IAM	Identity Access Management
SSO	Single-Sign On
SLO	Single LogOut
XSS	Cross-Site Scripting
CSRF	Cross-Site Request Forgery

1.4 Layout

In what follows, the evaluator marked obtained results using the following styles.

Technical fact: a bad practice, a minor flaw or a lack of defense in depth that does not lead to an attack. The style of a technical fact is as follows.

TF. X Technical fact title

Technical fact description.

A technical fact involving cryptographic mechanisms handled by the TOE is laid out in the following form.

TFC. X Technical fact title

Technical fact description.

It is not required to fix technical facts in order to obtain the certification. Nevertheless, it is encouraged to fix them.

Non-compliance: a non-compliance in the behavior of the TOE regarding the security target, the specifications of the TOE or the state of the art. The style of a non-compliance is as follows.

NC. X Non-compliance title

Non-compliance description.

A non-compliance with the cryptographic specifications is laid out in the following form.

NCC. X. Non-compliance title

Non-compliance description.

Non-compliances, according to their seriousness, can be critical to obtain the certification. It is highly recommended to fix them.

Vulnerability: a flaw leading to an attack. The style of a vulnerability is as follows.

VUL. X Vulnerability title

Vulnerability description.

A vulnerability involving cryptographic mechanisms handled by the TOE is laid out in the following form.

VULC. X Vulnerability title

Vulnerability description.

2. PRODUCT IDENTIFICATION

2.1 References and version of the audited product

Table 3 - Identification of the audited product

Editor	Shibboleth Consortium
Product	Shibboleth IdP & SP
Version number	5.1.6 & 3.5.1
Patches applied	NA

2.2 Identification procedure of the product

2.2.1 Identity Provider

During the installation phase, the evaluator explicitly downloads the 5.1.6 version of shibboleth IdP through the command

```
curl https://shibboleth.net/downloads/identity-provider/latest5/shibboleth-identity-provider-5.1.6.tar.gz -O
```

The version is also identifiable by the admin in localhost through the URL <http://localhost/idp/status>:

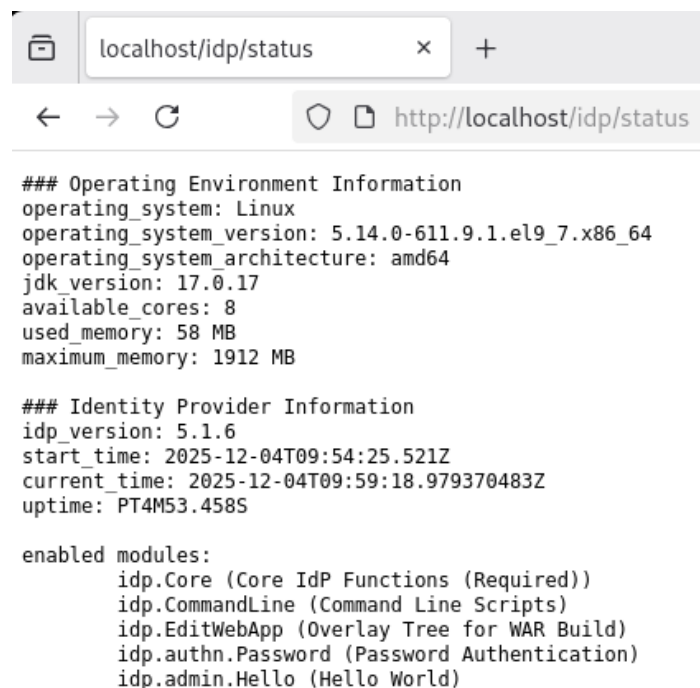


Figure 1 - Version identification of Shibboleth IdP

The evaluator didn't identify a way for a user to get the version of the running shibboleth IdP, which is a good point.

2.2.2 Service Provider

The version of shibboleth SP can be identified during the installation phase and after in the file system:

```
[root@localhost amossys]# ls /usr/share/doc/shibboleth-3.5.1/
CREDITS.txt      LICENSE.txt      NOTICE.txt      README.txt
FASTCGI.LICENSE  LOG4CPP.LICENSE  OPENSLL.LICENSE  RELEASE.txt
[root@localhost amossys]# dnf install shibboleth
Last metadata expiration check: 2:51:12 ago on Thu Dec  4 08:20:27 2025.
Package shibboleth-3.5.1-2.el9.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
```

Figure 2 - Version identification of Shibboleth SP

And again, the evaluator didn't identify a way for a user to identify the version of the SP.

3. INSTALLATION AND PRODUCT IMPLEMENTATION

In this paragraph, the auditor describes the key facts concerning the installation and handling of the product.

3.1 Description of the evaluation platform

For the installation, the auditor has deployed multiple machines:

Two for the TOE:

- A RockyLinux for IdP (acting as an Identity Provider in SAML context and as an OpenID Provider in OIDC context);
- A RockyLinux for SP (acting as the Service Provider in SAML context).

Six for the environment:

- One acting as a client (web browser);
- One acting as a LDAP server, bound to the IdP;
- A Kali machine in MITM;
- Two Debian servers, hosted the applications (only used in SAML context);
- A RockyLinux for RP (acting as the Relying Part in OIDC context).

3.1.1 Rocky IdP

The IdP was installed on a Rocky Linux in version 9.6.

The tar.gz archive was downloaded from <https://shibboleth.net/downloads/identity-provider/latest5/shibboleth-identity-provider-5.1.6.tar.gz>

(shasum at <https://shibboleth.net/downloads/identity-provider/latest5/shibboleth-identity-provider-5.1.6.tar.gz.sha256>).

Some additional software was needed to perform the installation of the Shibboleth IdP in version 5.1.6:

- java-17-openjdk-headless in version 17.0.17.0.10;
- Apache tomcat in version 10.1.49;
- Apache httpd in version 2.4.62;
- mod_ssl, an Apache HTTPD module in version 2.4.62.

The IdP is running inside Tomcat as a webapp.

IP: 192.168.10.50/24

3.1.2 Rocky SP (SAML context)

The SP was installed on a Rocky Linux in version 9.6, following the tutorial provided by Renater available at <https://services.renater.fr/federation/documentation/tutoriels/sp3/index>.

The software is available in this mirror: <https://shibboleth.net/cgi-bin/mirrorlist.cgi/rockylinux9>.

Some additional software was needed to perform the installation of the Shibboleth SP in version 3.5.1:

- Apache httpd in version 2.4.62;
- mod_ssl, an Apache HTTPD module in version 2.4.62.

This SP is linked to 2 applications that are inaccessible from outside.

IP addresses to the whole network: 192.168.20.50/24

IP addresses to the two background apps: 192.168.60.1/24

This SP also acts as a reverse proxy to deliver access to the apps.

3.1.3 Environment

3.1.3.1 Kali installation

The kali was deployed with multiple network interfaces and transformed as a router in order to capture every traffic of the analysis platform (except the communication between the SP and App which is not in the scope).

- 192.168.10.1/24 for the link with the IdP;
- 192.168.20.1/24 for the link with the SP;
- 192.168.143.100/24 for the internet link;
- 192.168.30.1/24 for the link with the client;
- 192.168.40.1/24 for the link with the LDAP.

A link to the RP was added for the OIDC part.

- 192.168.70.1/24 for the link with the RP;

Dnsmasq was also installed in order to name all these machines, as follows:

- 192.168.10.50 = IdP = rocky-idp.eval.lab;
- 192.168.20.50 = SP = rocky-sp.eval.lab;
- 192.168.30.50 = client = client1.eval.lab;
- 192.168.40.50 = LDAP = ldap.eval.lab;

And the RP was added for the OIDC part:

- 192.168.70.50 = RP = rocky-rp.eval.lab;

3.1.3.2 Rocky client

It's just a machine with no particular software installed, used to act as a classic user who wants to access services through shibboleth. Mozilla Firefox is used to interact with the TOE in version 145.5.0esr.

IP: 192.168.30.50/24

3.1.3.3 Rocky LDAP

This machine is a rocky 9.6 on which OpenLDAP in version 2.6.8 was installed. This LDAP contains multiple users with different rights for testing. The communication is not ciphered because it's out of scope.

IP: 192.168.40.50/24

3.1.3.4 Applications

Two Debian machines were also deployed to run basic apps. They are minimalistic and just make available two URLs that are protected by the Apache reverse proxy of the SP

IP app1: 192.168.60.50/24

IP app2: 192.168.60.60/24

3.1.3.5 Rocky RP (OIDC context)

The Relying Part is composed of an Apache httpd server with 'mod_oidc' activated.

And the oidc-common, oidc-config and oidc-op have been added to the IdP. The rest of the installation was made following the guide available at <https://shibboleth.atlassian.net/wiki/spaces/IDPPLUGINS/pages/1376878976/OIDC+OP>.

At the end, the reverse proxy Apache provides (via the mod_oidc module) an access to the protected application.

As this part is completely independent of Shibboleth, it was not evaluated during this evaluation.

3.2 TOE installation description

3.2.1 Documentation

As the major user of this product, relatively to this evaluation, is the French National Education, which is supposed to follow the installation guide and the documentation provided by Renater, this is the documentation that was used in priority. However, Shibboleth Consortium also provide documentation and installation guide at:

- <https://shibboleth.atlassian.net/wiki/spaces/IDP5/overview>
- <https://shibboleth.atlassian.net/wiki/spaces/SP3/overview>

For the evaluation, tutorial and documentation provided by Renater has been followed, criticized and opposed to the official documentation, the goal is to install and use the product in the most secure way possible.

The official documentation of Shibboleth is clearly unusable. The documentation is really huge and contains a lot and a lot of pages but not necessarily containing relevant information. For example, the OIDC installation documentation is really small, and assumes that everything would work on the first try which is never the case in the real world. Furthermore, there is no debug documentation elsewhere in the web. The only way to get information was through the logs, of the IdP and of the RP. But unfortunately, the RP (mod_oidc plugin) doesn't deliver

logs, which seems to be a specificity of rocky-linux (or RedHat distribution in general) because evaluators obtained the logs on a Debian installation. Finally, the OIDC plugin was setup successfully.

Documentation used for primary installation was found on the Renater website at:

- <https://services.renater.fr/federation/documentation/tutoriels/idp5> for the IdP;
- <https://services.renater.fr/federation/documentation/tutoriels/sp3> for the SP.

Not all the installation part and options have been set up.

3.2.2 Installation options and description

This section describes the installation of the SP and IdP shibboleth software, LDAP or app installation won't be described, just note that there is a LDAP reachable from every machine on the network especially by the IdP. And the two apps are reachable directly only by the SP, these two apps are just static web page running on an Apache server. The kali network configuration won't be described neither as all needed information are already available in

3.1.1.

The detail of the LDAP configuration isn't explicit here because it's content would change depending on the test's necessity.

All the configuration files that have been modified during the installation and mentioned here are available in appendix 9.1 for the IdP and in appendix 9.2 for the SP.

3.2.2.1 IdP installation

As mentioned above the IdP was downloaded at <https://shibboleth.net/downloads/identity-provider/latest5/shibboleth-identity-provider-5.1.6.tar.gz>.

In addition to this software, the evaluator has installed

- java-17 from the Redhat packages (`dnf install java-17-headless`);
- Tomcat in version 10.1.49 (<https://downloads.apache.org/tomcat/tomcat-10/v10.1.49/bin/apache-tomcat-10.1.49.tar.gz>);
- Httpd (`dnf install httpd`);
- Mod_ssl (`dnf install mod_ssl`).

Following the tutorial, a service account for Tomcat was created through the command `useradd tomcat` and transformed as the owner of Tomcat directory `chown -R tomcat:tomcat /opt/apache-tomcat-10.1.49` and shibboleth directory `chown -R tomcat:tomcat /opt/shibboleth-idp`.

A file to transform tomcat as a service was also created:

`/etc/systemd/system/tomcat.service`.

Tomcat server was configured to dialogue with the apache server through AJP protocol in `/opt/tomcat/conf/server.xml`.

And Apache as a proxy to redirect https requests to the shibboleth endpoint in `/etc/httpd/conf.d/tomcat.conf`.

Certificates to ensure HTTPS communication were created and specified in: `/etc/httpd/conf.d/ssl.conf`.

The file `/opt/shibboleth-idp/conf/idp.properties` has been modified to specify the URL of the shibboleth SP.

Tomcat files were also modified to specify where to find the shibboleth idp executable `/opt/tomcat/conf/Catalina/localhost/idp.xml`.

Access to the IdP should also be allowed from localhost by specified in a configuration file which IP address is allowed to contact the IdP `/opt/shibboleth-idp/conf/access-control.xml`.

In this state, the IdP is effective and reachable from the outside:

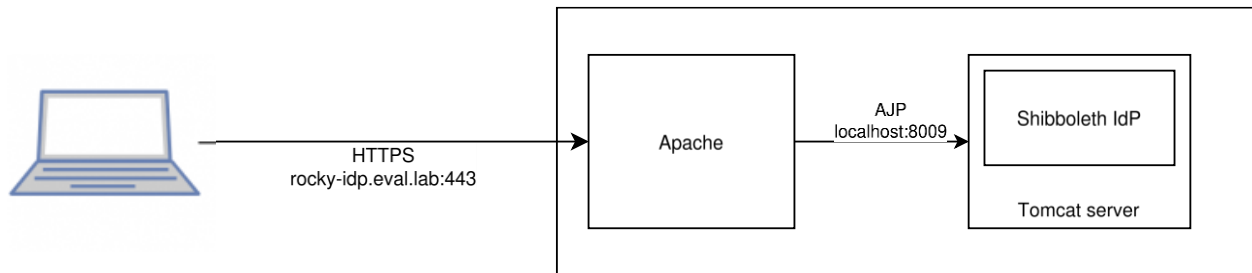


Figure 3 - Internal IdP configuration

3.2.2.2 SP Installation (SAML context)

As for the IdP, additional software has been installed, `mod_ssl` and `httpd`. The shibboleth SP binary was downloaded from a redhat repository.

The same procedure as the IdP was followed to ensure network traffic is in https.

The Apache `httpd` server is used to proxying traffic and redirect to the good service and also communicate with the shibboleth daemon 'shibd', these proxying directives were specified in `/etc/httpd/conf.d/rocky-sp.eval.lab.conf`.

An entityID which is necessary for the SAML protocol is specified in `/etc/shibboleth/shibboleth2.xml`.

In this state, the SP is effective and reachable from the outside, the two apps aren't accessible from the outside because shibd isn't able to communicate with the IdP and authenticate the client:

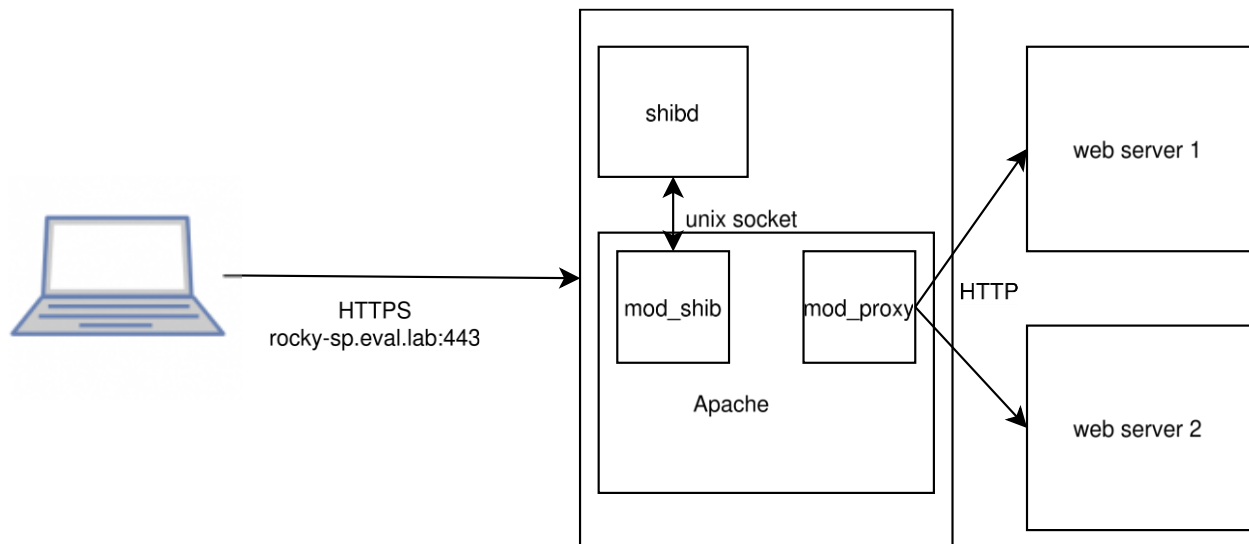


Figure 4 - Internal SP configuration

3.2.2.3 RP deployment (OIDC context)

The official documentation was used for the OIDC installation part:

→ <https://shibboleth.atlassian.net/wiki/spaces/IDPPLUGINS/pages/1376878976/OIDC+RP>.

The RP deployment was done on a RockyLinux first.

Multiples additional packages have to be downloaded in order to install the OIDC plugin on the IdP:

```

/opt/shibboleth-idp/bin/plugin.sh -I
https://shibboleth.net/downloads/identity-provider/plugins/oidc-
common/3.3.0/oidc-common-dist-3.3.0.tar.gz
/opt/shibboleth-idp/bin/plugin.sh -I
https://shibboleth.net/downloads/identity-provider/plugins/oidc-
config/3.0.1/idp-plugin-oidc-config-dist-3.0.1.tar.gz
/opt/shibboleth-idp/bin/plugin.sh -I
https://shibboleth.net/downloads/identity-provider/plugins/oidc-op/4.3.0/idp-
plugin-oidc-op-distribution-4.3.0.tar.gz

```

Then multiple files have to be changed:

/opt/shibboleth-idp/conf/credentials.xml:

```
<import resource="oidc-credentials.xml" />
```

/opt/shibboleth-idp conf/attributes/default-rules.xml:

```
<import resource="oidc-claim-rules.xml" />
```

Multiple RSA keys have to be generated:

```

$ cd /opt/shibboleth-idp
$ bin/jwtgen.sh -t RSA -s 2048 -u sig -i defaultRSASign | tail -n +2 >
credentials/idp-signing-rs.jwk
$ bin/jwtgen.sh -t EC -c P-256 -u sig -i defaultECSign | tail -n +2 >
credentials/idp-signing-es.jwk
$ bin/jwtgen.sh -t RSA -s 2048 -u enc -i defaultRSAEnc | tail -n +2 >
credentials/idp-encryption-rsa.jwk

```

And then mentioned in the file `/opt/shibboleth-idp/conf/oidc-credentials.xml`

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
  xmlns:context="http://www.springframework.org/schema/context"
  xmlns:util="http://www.springframework.org/schema/util"
  xmlns:p="http://www.springframework.org/schema/p"
  xmlns:c="http://www.springframework.org/schema/c"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.springframework.org/schema/beans
    http://www.springframework.org/schema/beans/spring-beans.xsd
    http://www.springframework.org/schema/context/spring-context.xsd
    http://www.springframework.org/schema/util/spring-util.xsd"

  default-init-method="initialize" default-destroy-method="destroy">

  <bean id="shibboleth.oidc.DefaultRSSigningCredential"
parent="shibboleth.JWKCredential"
  p:resource="/opt/shibboleth-idp/credentials/idp-signing-rs.jwk" />

  <bean id="shibboleth.oidc.DefaultESSigningCredential"
parent="shibboleth.JWKCredential"
  p:resource="/opt/shibboleth-idp/credentials/idp-signing-es.jwk" />

  <bean id="shibboleth.oidc.DefaultRSAEncryptionCredential"
parent="shibboleth.JWKCredential"
  p:resource="/opt/shibboleth-idp/credentials/idp-encryption-rsa.jwk"
/>

  <util:list id="shibboleth.oidc.SigningCredentials">
    <ref bean="shibboleth.oidc.DefaultRSSigningCredential" />
    <ref bean="shibboleth.oidc.DefaultESSigningCredential" />
    <ref bean="shibboleth.oidc.DefaultRSAEncryptionCredential" />
  </util:list>
  <util:list id="shibboleth.oidc.EncryptionCredentials">
    <ref bean="shibboleth.oidc.DefaultRSAEncryptionCredential" />
  </util:list>
</beans>
```

The file `/opt/shibboleth-idp/conf/oidc.properties` should specify the host name of the IdP:

```
idp.oidc.issuer = https://rocky-idp.eval.lab.org
```

A particular configuration has to be made on the httpd configuration in order to render the page `".well-known/openid-configuration"`:

```
<VirtualHost *:443>
  ServerName rocky-idp.eval.lab
  SSLProtocol TLSv1.2
  SSLCipherSuite "AES256-SHA:AES128-SHA:!ECDHE:!EECDH:!DHE"
  SSLHonorCipherOrder on
  SSLEngine on
  SSLCertificateFile /etc/pki/tls/certs/rocky-idp.eval.lab.pem
  SSLCertificateKeyFile /etc/pki/tls/private/rocky-idp.eval.lab.pem

  ProxyPreserveHost On

  Alias "/.well-known/openid-configuration" "/opt/shibboleth-
idp/static/openid-configuration.json"
```

```

<Directory "/opt/shibboleth-idp/static">
    AllowOverride None
    Require all granted
</Directory>

ProxyPass /idp ajp://127.0.0.1:8009/idp
ProxyPassReverse /idp ajp://127.0.0.1:8009/idp

</VirtualHost>

```

Then the profiles should be updated in `/opt/shibboleth-idp/conf/relying-party.xml`

```

<bean id="shibboleth.DefaultRelyingParty" parent="RelyingParty">
    <property name="profileConfigurations">
        <list>
            <ref bean="OIDC.SSO" />
            <ref bean="OIDC.UserInfo"/>
            <ref bean="OAUTH2.Token"/>
            <ref bean="OAUTH2.Revocation"/>
            <ref bean="OAUTH2.Introspection" />
        </list>
    </property>
</bean>

```

During the installation, the evaluator encounter multiples problems and doesn't manage to setup an automatic relying party enrolment, so the metadata of the RP has to be entered manually in the file

`/opt/shibboleth-idp/conf/oidc-client.json`

```

[
  {
    "client_id": "user1",
    "client_secret": "user1",
    "redirect_uris": [
      "https://rocky-rpdeb.eval.lab/redirect_uri"
    ],
    "grant_types": ["authorization_code"],
    "response_types": ["code"],
    "scope": "openid profile email"
  }
]

```

which has to be mentioned in the file

`/opt/shibboleth-idp/conf/oidc-clientinfo-resolvers.xml`

```

<bean id="ExampleFileResolver"
parent="shibboleth.oidc.FilesystemClientInformationResolver"
c:metadata="{idp.home}/conf/oidc-client.json" />

```

On the other hand, the relying-part (the OIDC client) was installed on a Debian machine because http log doesn't appear on a rocky one.

This Debian just serve an Apache server configured in `/etc/apache2/sites-enabled/rocky-rpdeb.eval.lab.conf`

```

ServerName rocky-rpdeb.eval.lab

OIDCClientID user1
OIDCClientSecret user1

```

```

OIDCProviderMetadataURL https://rocky-idp.eval.lab/.well-known/openid-configuration
OIDCProviderIssuer https://rocky-idp.eval.lab
OIDCRedirectURI https://rocky-rpdeb.eval.lab/redirect_uri

OIDCOAuthSSLValidateServer Off
OIDCSSLValidateServer Off
OIDCCryptoPassphrase user1

OIDCRemoteUserClaim sub

<Location />
  AuthType openid-connect
  Require valid-user
</Location>

```

The whole installation process takes a while because of the lack of logs with the rocky machine and a poor documentation. A call with an external speaker which specifies that he is running shibboleth on a Debian prompted the evaluator to try the installation on a Debian too.

By doing this, logs appear and the installation take less than half a day.

3.2.2.4 Relation setup

To communicate together, it's needed to establish a trusted relation between the IdP and the SP. For that, both of them exposed some metadata at:

<https://rocky-idp.eval.lab/idp/shibboleth> and

<https://rocky-sp.eval.lab/Shibboleth.sso/Metadata>

For the SP it's needed to specify in `/etc/shibboleth/shibboleth2.xml` where to find this metadata and the entityID of the SSO SAML.

And for the IdP the file `/opt/shibboleth-idp/conf/metadata-provider.xml` should be modified to integrate the metadata of the SP.

For the relation with the RP in OIDC protocol, the IdP exposed some metadata at:

<https://rocky-idp.eval.lab/.well-known/openid-configuration>

and already know the client which is referenced in a file `"oidc-client.json"`:

```

[
  {
    "client_id": "user1",
    "client_secret": "user1",
    "redirect_uris": [
      https://rocky-rpdeb.eval.lab/redirect\_uri
    ],
    "grant_types": ["authorization_code"],
    "response_types": ["code"],
    "scope": "openid profile email"
  }
]

```

3.3 Analysis of the impact on the TOE on its environment

3.3.1 Identity Provider

The analysis of the impact of Shibboleth on the filesystem showed that it is normal for a Linux software. The running processes and services are limited, and binaries are protected against binary vulnerabilities during compilation.

A few improvements have been identified, and are listed below with the appropriate analysis sections.

3.3.1.1 Users and Groups

```
[root@localhost amossys]# cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
[...]
amossys:x:1000:1000:amossys:/home/amossys:/bin/bash
[...]
tomcat:x:1001:1001::/home/tomcat:/bin/bash
apache:x:48:48:Apache:/usr/share/httpd:/sbin/nologin

[root@localhost amossys]# cat /etc/group
root:x:0:
[...]
amossys:x:1000:
[...]
tomcat:x:1001:
apache:x:48:
```

Two users and their associated groups are created, Apache as a classic service account which is created during httpd installation.

And tomcat which is explicitly created if the one who installs is following the Renater installation guide. The auditor doesn't find mention of this created user in the official shibboleth guide. Creating a user with a shell for a service account is not common and can facilitate the privilege escalation phase in case of vulnerability.

RECO. 1: [DEV] Don't create service account with a shell

A service account shouldn't have access to a shell, for the in-depth defense principle, what is not needed, especially in case of permission, doesn't have to exist.

Create a user without shell is also possible through the command:

```
useradd tomcat --shell=/bin/false
```

Or if it's really needed for the installation phase, it's possible to suppress this shell after the whole installation with:

```
usermod tomcat --shell=/bin/false
```

Even if this is not directly linked to the developer of Shibboleth, it is recommended that administrator apply Linux security best practices after installing Shibboleth.

3.3.1.2 Network

Internal vision

The tomcat server is exposing two ports in localhost, the TCP/8009 for AJP communication with Apache HTTPd and the TCP/8005 for received 'SHUTDOWN' command and stop himself.

tcp	LISTEN	0	100	::ffff:127.0.0.1]:8009	users:(("java",pid=8054,fd=44))
tcp	LISTEN	0	1	::ffff:127.0.0.1]:8005	users:(("java",pid=8054,fd=68))

RECO. 2: [ADMIN] Close port TCP/8005

Even if this port is accessible only from localhost, as this machine is exposed on the internet, in terms of in-depth defense this port should be close to ensure that nobody can shut down the tomcat server even if he can do request on this port in any manner.

It's possible to close it in the configuration file `/opt/tomcat/conf/server.xml`.

Even if this is not directly linked to the developer of Shibboleth and mainly based on Tomcat, it is recommended that administrator apply Linux security best practices after installing Shibboleth.

RECO. 3: [ADMIN] Apply tomcat hardening guide

Apply security recommendations provided by tomcat as much as possible.

The guide is available at <https://tomcat.apache.org/tomcat-9.0-doc/security-howto.html>.

Exposed entry points

And the httpd server exposes ports 80 and 443 to the internet and communicate in localhost with the tomcat server:

tcp	CLOSE-WAIT	1	0	127.0.0.1:51788	127.0.0.1:8009	users:(("httpd",pid=3591,fd=21))
tcp	CLOSE-WAIT	1	0	127.0.0.1:49416	127.0.0.1:8009	users:(("httpd",pid=3590,fd=21))
tcp	CLOSE-WAIT	1	0	127.0.0.1:45182	127.0.0.1:8009	users:(("httpd",pid=3777,fd=21))
tcp	CLOSE-WAIT	1	0	127.0.0.1:56658	127.0.0.1:8009	users:(("httpd",pid=3592,fd=21))
tcp	LISTEN	0	511	*:80		users:(("httpd",pid=3777,fd=4))
tcp	LISTEN	0	511	*:443		users:(("httpd",pid=3777,fd=6))

As so, the entry points exposed by the TOE are: TCP/80 and TCP/443.

They were analyzed by a nmap scan to get the fingerprint exposed (result available in appendix 9.5), as well as a scan of the exposed endpoints, with dirsearch tool (results available in appendix 9.6), based on a tomcat wordlist, and well-known entry points (based on `/opt/shibboleth-idp/conf/metadata-provider.xml`), for instance `idp/shibboleth`.

The ssh port is open by default in Rocky Linux, optimally, it should be closed, the dirsearch doesn't revealed unexpected endpoints.

3.3.2 Service Provider

The same analysis has been made on the Service Provider, without any improvements or limitations identified.

3.3.3 Status of the secure state

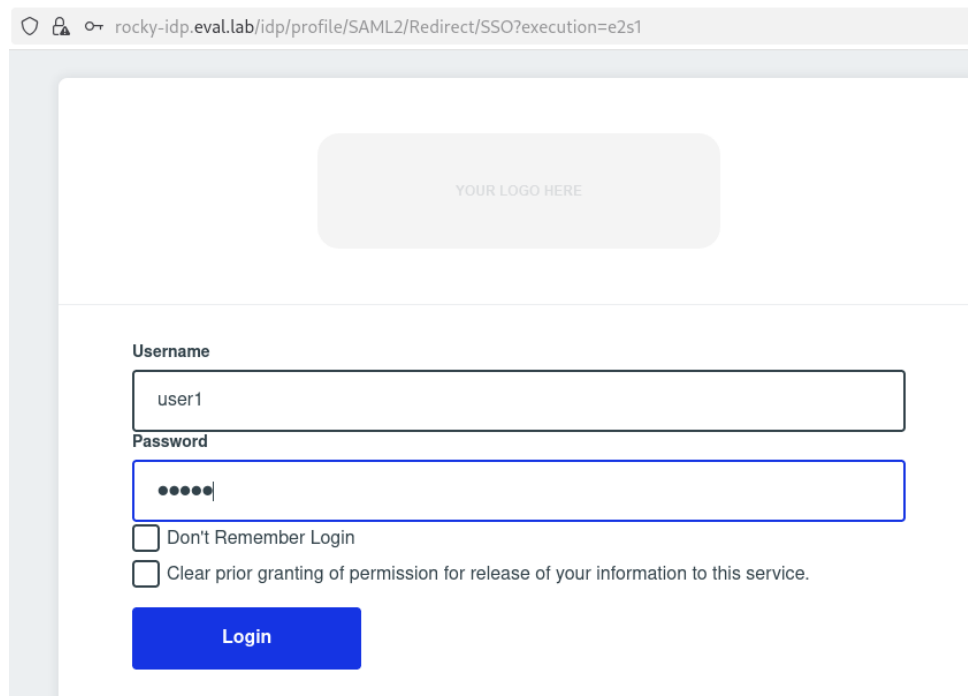
A lot of independent installations are needed to setup the whole system and a lot of configuration files are also needed. The evaluator thinks that a lot of administration error can be made during this installation phase and can lead at least to bad 'in depth defense' configuration. For example, the user tomcat was created with a shell in this tutorial which is habitually not necessary for a service account. The ssh ports open by default can also be problematic, improving the attack surface.

3.4 Initial setup and functional validation

The installation procedure described by Renater on its tutorial was absolutely helpful and made the installation as simple as possible, no problem was encountered during these two days of installation. A test with a user was made to assert that the product is functional:



Figure 5 - request to the SP



rocky-idp.eval.lab/idp/profile/SAML2/Redirect/SSO?execution=e2s1

YOUR LOGO HERE

Username

user1

Password

•••••

☐ Don't Remember Login

☐ Clear prior granting of permission for release of your information to this service.

Login

Figure 6 - Redirection to the IdP login page (SAML)



rocky-idp.eval.lab/idp/profile/oidc/authorize?execution=e1s2

YOUR LOGO HERE

Username

Password

☐ Don't Remember Login

Figure 7 - redirection to IdP login page (OIDC)



← → ↻ rocky-sp.eval.lab/app1

Bienvenue sur l Application 1 !

Ceci est la page principale.

[Aller a la page 2](#)

Figure 8 - Access delivered to the requested app

3.5 Synthesis

The installation was long but quite simple (for the SAML part) and well described by Renater. This tutorial also accompanies the installer to add TLS certificates on the communication with the SP and with the IdP. As mentioned before the official documentation is not really helpful, thus for the OIDC installation, for which Renater doesn't offer a tutorial, it was a really difficult installation with a lot of bugs. For an unknown reason, the OIDC httpd module doesn't deliver logs, but the evaluator eventually manages to deploy the RP on a Debian machine to access logs, resulting in possible debug and finally find the appropriate configuration.

4. STATIC ANALYSIS

4.1 IdP source code analysis

The source code analysis was focused on the Java source code, available on <https://shibboleth.net/downloads/identity-provider/latest5/>. It was confirmed that the openFuzz project is not used to analyze the TOE. This project contains 128 .jar files.

The automated analysis performed by Spotbugs revealed 18418 bugs, notably 19 relatives to security and 5203 to malicious code vulnerability.



Figure 9 - Spotbugs result

Most of security bugs automatically found are relatives to SQL Injection.

The list of lines affected by these alerts are:

- - initializeConnection(Connection) At PoolableConnectionFactory.java (line 329)
- -validateObject(PooledObject) At CPDSCONNECTIONFactory.java (line 417)
- -validateObject(PooledObject) At KeyedCPDSCONNECTIONFactory.java (line 343)
- -PStmtKey.java (line 70)
- -PStmtKey.java (line 80)
- -PStmtKey.java (line 90)
- -PStmtKey.java (line 100)
- -PStmtKey.java (line 110)
- -PStmtKey.java (line 120)
- -PoolableConnectionFactory.java (line 653)
- -AbstractExecutableStatementBuilder.java (line 102)
- -JDBCPairwiseIdStore.java (line 609)
- -JDBCPairwiseIdStore.java (line 696)

- -JDBCPairwiseIdStore.java (line 749)
- -JDBCPairwiseIdStore.java (line 782)
- -JDBCPairwiseIdStore.java (line 828)
- -JDBCPairwiseIdStore.java (line 891)
- -DataSourceResourceLoader.java (line 514)

As this is not the applicant's usual practice, no SQL database was mounted on the evaluation platform so **those automatically found vulnerabilities hasn't been tested.**

RECO. 4. [DEV] Check for SQL injection

The management of SQL request should be thoroughly reviewed to ensure that there are no more risks of SQLI.

RECO. 5. [ADMIN] Don't use SQL database unless SQL queries are checked for any SQL injection.

Prefer the usage of LDAP authentication than SQL.

LDAP injection has been tested and the product doesn't seem to be vulnerable to them.

A manual code analysis has been made on the TOTP, this concerns the code repository <https://codeberg.org/Shibboleth/java-idp-plugin-totp> in version 2.3.2. The TOTP is created using the GoogleAuthenticator standards, in file java-idp-plugin-totp.jar. No problem has been identified in this manual analysis.

4.2 SP source code analysis

The SP is provided as an Apache HTTP server module called mod_shib, associated to a daemon called shibd. The code was downloaded from the URL: <https://shibboleth-mirror.cdi.ti.ja.net/rockylinux9/>. It was confirmed that the openFuzz project is not used to analyze the TOE. This project is developed in C++, including five repositories.

An automated analysis with codesonar was performed. Roughly 700 alerts were raised, including 94 with score > 55. After manual review of all of them, no exploitable vulnerabilities were identified (all are false positives, dead code or not exploitable bugs).

However, a particular attention has been paid to the 'xerces-c' library which is used to parse the XML, a fuzzing campaign has been performed on this library (see section 5.4.3).

4.3 COTS analysis

Since the components to analyze are numerous, the auditor focused on a subset of COTS manipulated by the TOE.

Here is analyzed a sample of COTS integrated in the Shibboleth IdP which are identifiable in the IdP archive in `webapp/WEB-INF/lib/`.

Table 4 - Internal components

COTS	Used version	Last available version	Up to date	Still maintained
Cryptacular	1.2.6(08/15/2023)	1.3.0(19/01/2026)	No	Yes
Jackson-*	2.16.2(03/09/2024)	2.20.1(10/31/2025)	No	Yes
Log4j-over-slf4j	2.0.13(04/12/2024)	2.0.17(02/25/2025)	No	Yes
Netty-*	4.1.108.Final(03/21/2024)	4.1.130(12/15/2025)	No	Yes
Xmlsec	3.0.5(10/25/2024)	3.0.6(04/11/2025)	No	Yes
Bc* (boucy-castle)	1.77(11/15/2023)	1.83(11/26/2025)	No	Yes

This sample is sufficient to notice that the COTS aren't up to date, and some of them are sensible to multiples CVE.

→ Cryptacular

- CVE-2025-8885 (dependency vulnerability)
- CVE-2024-34447 (dependency vulnerability)
- CVE-2024-30172 (dependency vulnerability)
- CVE-2024-30171 (dependency vulnerability)
- CVE-2024-29857 (dependency vulnerability)

→ Netty

- CVE-2025-25193 (dependency vulnerability)
- CVE-2024-47535 (dependency vulnerability)
- CVE-2025-24970 direct vulnerability leading to a crash

→ Bouncy-castle

- Same CVE on dependencies as Cryptacular
- CVE-2025-8916 direct CVE leading to a DOS

VUL. 1. Some COTS are not up to date

Version of COTS listed below are deprecated. As a consequence, these COTS does not benefit of the last security patches that could be applied on the following versions. An update is recommended.

The developer confirms having updated certain libraries following this audit.

4.4 Security status based on the static analysis

The most critical bugs revealed is the SQL injection on the IdP, but as the clients mostly used LDAP, it doesn't seem problematic in this use case. Then the rest of the IdP seems to be well written and spotbugs doesn't reveal obvious vulnerabilities.

For the SP part, the static analysis revealed major threat like use after free or double free on the xml parsing libraries, but these alerts were canceled by dynamic analysis. As an attacker have access to the network and can communicate with the shibboleth daemon, the most critical

library is the xml parsing one (xerces-c), administrator have to pay attention to always maintain this library up-to-date.

The MFA code analysis doesn't reveal weird behavior.

According to the CSPN format, COTS not up to date are considered as vulnerabilities. On the other hand, here, they seem to not add threat to the product and just show a lack of follow-up from the developer.

5. DYNAMIC ANALYSIS

5.1 SAML

SAML v2 is a protocol used for authentication and authorization, mainly to enable Single Sign-On between different systems.

Several features are available:

- ARP: Authentication Request Protocol, which aims to authentication a user with a SAML token delivery containing user's specific tag, allowing the SP to know his rights. This part has been evaluated in 5.1.1.
- SLO: Single Logout, which aims to logout the user in one time on each service where he has been connected. As shown in 5.1.2, this protocol hasn't been evaluated.

ARP used 'HTTP POST' binding which seems to be the default way. As this is the best practice, the evaluation of 'HTTP Redirect' binding hasn't been performed.

Multiples tests have been performed to ensure the security of SAML ARP protocol, the good manipulation of the XML format and the quality of the management of the assertions.

Common attacks on SAMLv2 are:

- Assertion Manipulation;
- Weak Encryption;
- Replay Attacks;
- Open Redirect;
- Man-in-the-middle attacks;
- XXE;
- XML signature wrapping.

5.1.1 Authentication Request Protocol

5.1.1.1 Flow

The AR Protocol is quite complex:

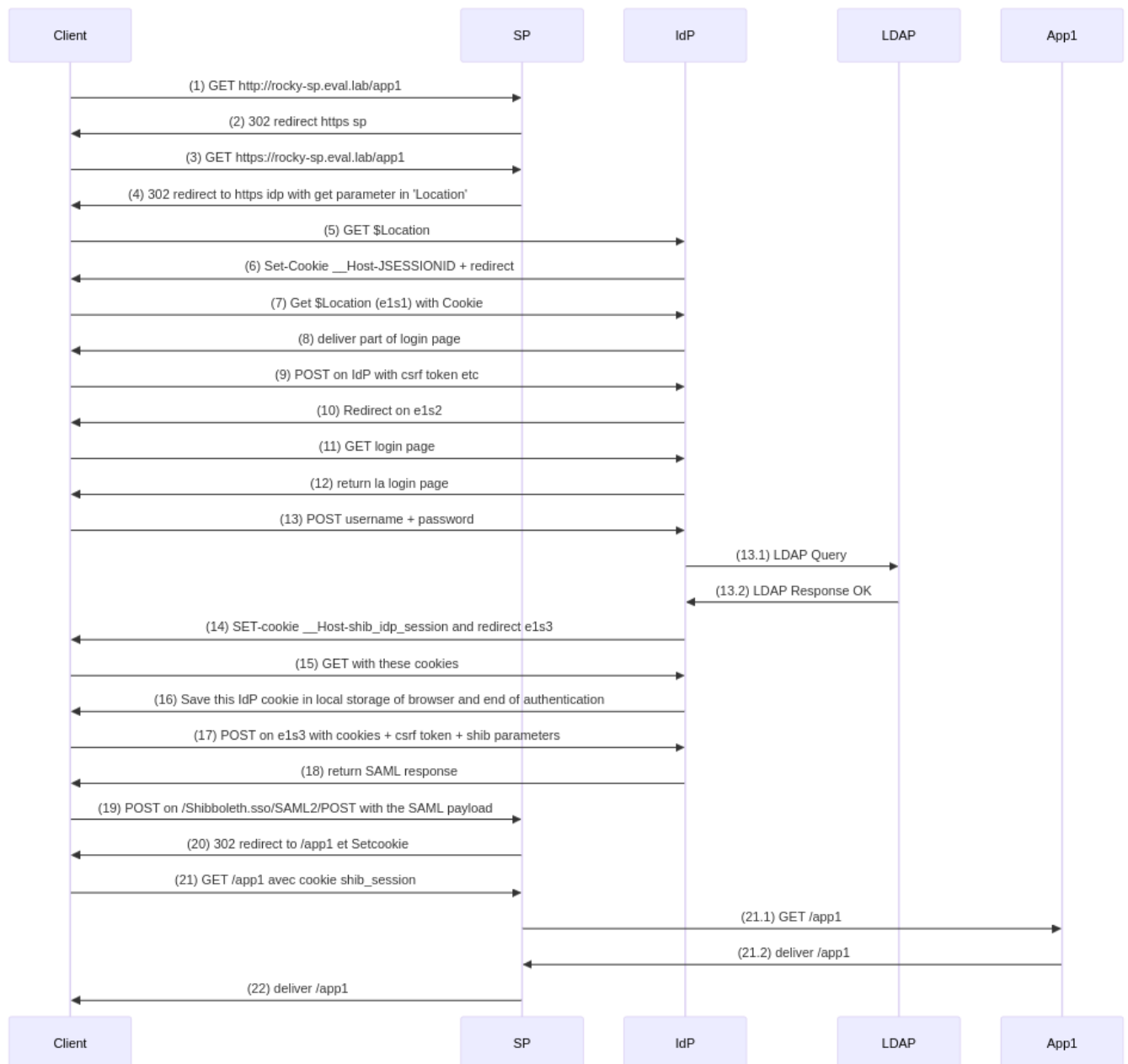


Figure 10 - Authentication Request Protocol

In step 1-4, the client asks for a page and the SP redirect him to the identity provider, in step 5-18, the client prove his identity to the IdP which gives him back a SAML payload corresponding to his identity. Finally, the client gives this SAML payload to the SP which saves this and give back a cookie to the client.

The client now has an identity with associated rights which is known from the SP, and a Cookie to make a link between him and his profile.

Only this Cookie is used for the next part of navigation, so it really has to be secured.

The whole process of this authentication and associated requests can be found in the appendix.

5.1.1.2 Robustness of ARP

The whole process of authentication has been analyzed in detail here, at each step of the authentication, the evaluator has tried to change the expected behavior, bypass the authentication, change his attributes, change the token etc., without finding any potential vulnerabilities.

5.1.2 Single Logout (SLO)

The Single Logout protocol hasn't been analyzed during this evaluation, as it wasn't considered as a major point of interest.

5.1.3 SAML security synthesis

The whole protocol has been analyzed in section 5.1.1.2, taking into account at each stage, the potential well-known vulnerabilities. And no problem was identified, redirections are secured and traced by Cookies, the whole SAML payload is signed, replay attacks weren't conclusive.

5.2 OIDC

OIDC is an extension of OAuth 2.0 that adds an authentication layer. It allows an application to verify a user's identity using an Identity Provider (IdP) and to obtain profile information securely.

In OIDC mode, the IdP is called an OpenID Provider and this section describe the evaluation realized on this protocol. The relying Party (i.e. the OIDC client) can be anyone and this is not dependent on Shibboleth.

Due to the long installation time required for OIDC protocol, only the Authentication flow 'Authorization Code' has been analyzed. Evaluator doesn't have the time to set up a platform to evaluate 'Client Credentials Flow'.

The major known vulnerabilities on OIDC are 'Unprotected dynamic client registration' and 'Allowing authorization requests by reference'.

5.2.1 Flow

The authentication flow is as follows:

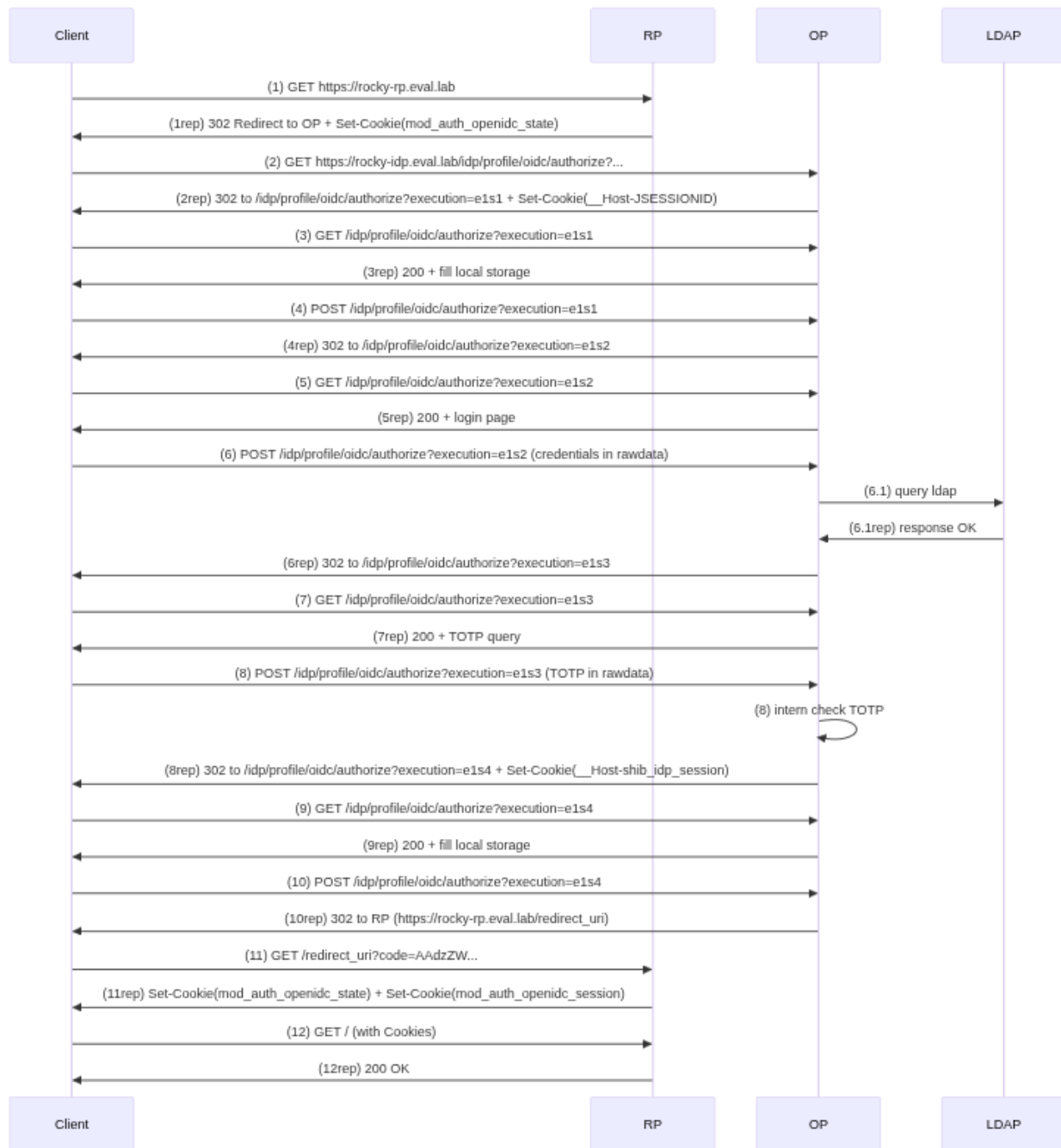


Figure 11 - OIDC with MFA authentication flow

The authentication takes place in the same way as with SAML, first, the client initiates a connection with an application (RP) (1).

Therefore, he is redirected to the Identity Provider which acts very similarly than with SAML (2-8).

And if the authentication is successful, a code is delivered to the client (9-10) allowing him to authenticate to the RP.

RP authenticates the client and delivers him a Cookie(mod_auth_openidc_session) for further communication (11-12).

The whole robustness of this authentication process is analyzed below, and the associated requests can be found in appendix 9.3.

5.2.2 Robustness of OIDC Authentication flow

The OIDC protocol was installed in authorization code flow mode.

The first response of the RP contains two things of interest;

→ The Cookie which is delivered for the first request:

```
mod_auth_openidc_state_gGfJ-NQr0I1lgU9WyGxUQfGX-
Y8=eyJhbGciOiAiZGlyIiwgImVuYyI6ICJBMjU2R0NNIn0..bthYSUHAwqBegxnW.CzmNy0xI_0Vu
OVhr0m_4rpV9nU6deF8gWbXT5FgIprd0nr0_NTQKAH4QLzZHYJ3niJtfplpvnVovmYZhca2ZOBnQf
wKkCDolVqPceKavv0uVLuwBg2l2dIzRHVj8ujIGyarif4cjsCKAd4hvXmI_i_BVi845-
tvvJzOdcLcMGWZoT-
GmtDKZtTwVfF5LoBJxrPz4u0lSpNk3lMufDWol0f08Adwyl_6cFIeB_EVouOPMyDGkVYpYWvU5qj8
FQD8OROFFpplVaF5pJs7QlcPm.skpFsFR2CMKMTwa4gwvoPw; Path=/; Secure; HttpOnly;
SameSite=Lax
```

→ And the redirection

```
https://rocky-
idp.eval.lab/idp/profile/oidc/authorize?response_type=code&scope=openid%20ema
il%20profile&client_id=user1&state=gGfJ-NQr0I1lgU9WyGxUQfGX-
Y8&redirect_uri=https%3A%2F%2Frocky-
rp.eval.lab%2Fredirect_uri&nonce=jqpXIQUKqUEpAsJqpOcGeGcmeQRABIMtRYxW5UT6mXQ&
code_challenge=fwHeLCiNgmWlCj1ksQNivagQzHLnRjwLhFspkj4jag&code_challenge met
hod=S256
```

As the cookie is delivered by the RP, it's not in the scope.

The second response to the request made on the redirect URL set a cookie to secure the connection

```
Set-Cookie: __Host-JSESSIONID=E6548B2A1FDDC4231785B65423971F84; Path=/;
Secure; HttpOnly
```

This cookie, the same as in SAML is secured and have the good flags.

Then the same procedure as SAML is followed between IdP and Client.

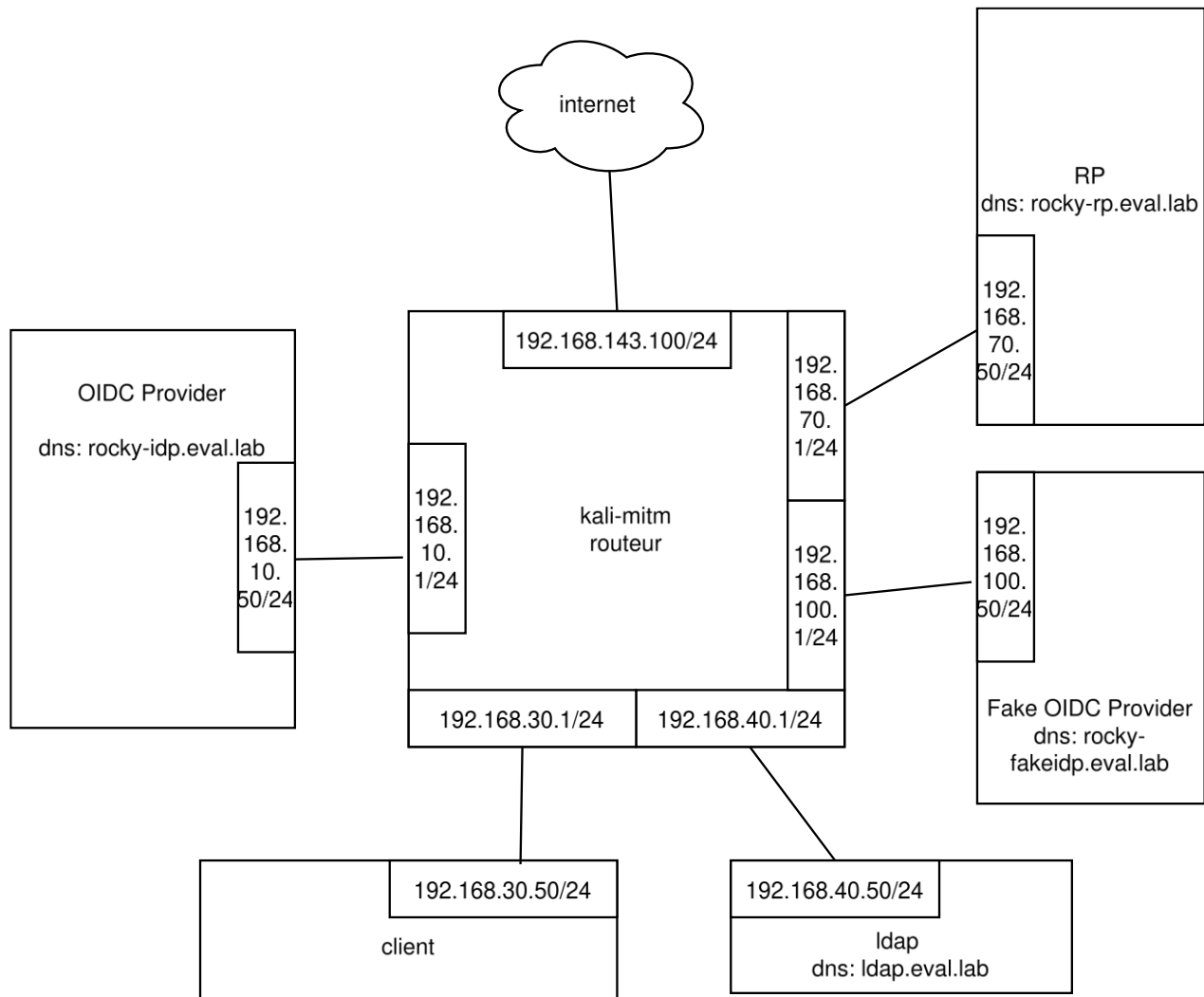
Finally, if the authentication succeeds, the redirection is made at:

```
https://rocky-
rp.eval.lab/redirect_uri?code=AAZzZWNyZXQxkMilDMVhKUBsq7WF2DkoxzB1x-9ckcT5ig-
82P6N0fBui04J465eebWq_X86FHPgkVWKOet7aI-
oU356CednkEEVuFQEPk0ePWlnk26M_HphPDlfhLEv6lodEvYhzcCFRGGeu4Sb1Zi2_2zzz6lggx
ggO_TgEmT4ScOnlmsrMNEoz5IDuAAirLWTA8KqsuIY7wmJHcZlFIY89SvFgPKz2w3YywI2edS48ib
i3SJ-amUFVey8vfAt-102xp9uao5ovn582Ya04F6LNQ3hCwR4DHETg2mHxv3xdFI1W9HI-
byQ1rhhvoPzCUZnA6grFDRUWqb5CabHYAQtDgRA2uX3DEMxnAwtG53G_m3AfKote2yuAWiS2Gt7Eh
uQ7EAd6WSYUVvfI7hLrbNhoYboHj5XRqyNPL5tsdAFVPUAy07QpHuQOm1jrI9U_-
9VFhQU8q5Pqk7LvNL9r6YPVcbQnHkEH0dDOJcLyUX0JADqEl1zyIcUsGyYeyrk3hCfNo_5K21Ih20
layw&state=gGfJ-NQr0I1lgU9WyGxUQfGX-Y8
```

with the code parameter in the GET request

5.2.3 Fake IDP redirection

To test if a user can redirect the requests to an IdP that he owns, another IdP was created under the name rocky-fakeidp.eval.lab



During the second request, which is the redirection to the IdP, the evaluator attempted to redirect to the fake idp:

```
GET
/idp/profile/oidc/authorize?response_type=code&scope=openid%20email%20profile
&client_id=user1&state=gGfJ-NQr0IllgU9WyGxUQfGX-
Y8&redirect_uri=https%3A%2F%2Frocky-
rp.eval.lab%2Fredirect_uri&nonce=jqpXIQUKqUEpAsJqpOcGeGcmeQRABIMtRyxW5UT6mXQ&
code_challenge=fwHeLCiNgmWlCj1ksQNivagQzHLnRjwwLhFspkj4jag&code_challenge_met
hod=S256 HTTP/1.1
Host: rocky-idp.eval.lab
Accept-Language: en-US,en;q=0.9
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/143.0.0.0 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,i
mage/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
```

```

Sec-Fetch-Site: none
Sec-Fetch-Mode: navigate
Sec-Fetch-User: ?1
Sec-Fetch-Dest: document
Sec-Ch-Ua: "Chromium";v="143", "Not A(Brand";v="24"
Sec-Ch-Ua-Mobile: ?0
Sec-Ch-Ua-Platform: "Linux"
Accept-Encoding: gzip, deflate, br
Priority: u=0, i
Connection: keep-alive

```

Became:

```

GET
/idp/profile/oidc/authorize?response_type=code&scope=openid%20email%20profile
&client_id=user1&state=gGfJ-NQr0IllgU9WyGxUQfGX-
Y8&redirect_uri=https%3A%2F%2Frocky-
rp.eval.lab%2Fredirect_uri&nonce=jqpXIQUKqUEpAsJqpOcGeGcmeQRABIMtRYxW5UT6mXQ&
code_challenge=fwHeLCiNgmWlCj1ksQNivagQzHLnRjwwLhFspkj4jag&code_challenge_met
hod=S256 HTTP/1.1
Host: rocky-fakeidp.eval.lab
Accept-Language: en-US,en;q=0.9
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/143.0.0.0 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,i
mage/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
Sec-Fetch-Site: none
Sec-Fetch-Mode: navigate
Sec-Fetch-User: ?1
Sec-Fetch-Dest: document
Sec-Ch-Ua: "Chromium";v="143", "Not A(Brand";v="24"
Sec-Ch-Ua-Mobile: ?0
Sec-Ch-Ua-Platform: "Linux"
Accept-Encoding: gzip, deflate, br
Priority: u=0, i
Connection: keep-alive

```

The redirection is made and then the authentication process start at the fake IdP. Until the authentication is done, the user is redirected to the Relying Part which doesn't notice anything.

43	https://rocky-rpdeb.eval.lab	GET	/		
44	https://rocky-idp.eval.lab	GET	/idp/profile/oidc/authorize?respons...	✓	✓
46	https://rocky-fakeidp.eval.lab	GET	/idp/profile/oidc/authorize?respons...	✓	
50	https://rocky-fakeidp.eval.lab	GET	/idp/profile/oidc/authorize?respons...	✓	
51	https://rocky-fakeidp.eval.lab	GET	/idp/profile/oidc/authorize?executio...	✓	
54	https://rocky-fakeidp.eval.lab	POST	/idp/profile/oidc/authorize?executio...	✓	
55	https://rocky-fakeidp.eval.lab	GET	/idp/profile/oidc/authorize?executio...	✓	
58	https://rocky-fakeidp.eval.lab	POST	/idp/profile/oidc/authorize?executio...	✓	
59	https://rocky-fakeidp.eval.lab	GET	/idp/profile/oidc/authorize?executio...	✓	
60	https://rocky-fakeidp.eval.lab	POST	/idp/profile/oidc/authorize?executio...	✓	
62	https://rocky-rpdeb.eval.lab	GET	/redirect_uri?code=AAdzZWNyZX...	✓	
63	https://rocky-rpdeb.eval.lab	GET	/		

Figure 12 - Exchange during the fake authentication

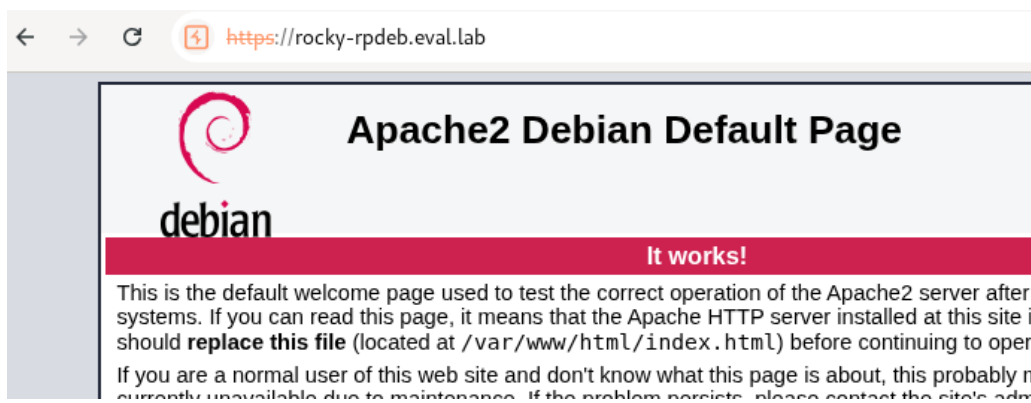


Figure 13 - Page delivered with fake authentication

This is problematic; an attacker can control his own IdP server and his own LDAP. To do this test, certificates and OIDC keys of the fake IdP are different from the legitimate one, but they have the same CN (on the certificates). To perform this, an attacker needs to know the content of the `oidc-client.json` file on the legitimate server.

```
[
  {
    "client_id": "user1",
    "client_secret": "user1",
    "redirect_uris": [
      https://rocky-rpdeb.eval.lab/redirect\_uri
    ],
    "grant_types": ["authorization_code"],
    "response_types": ["code"],
    "scope": "openid profile email"
  }
]
```

If an attacker is able to authenticate a legitimate RP with his own fake OP, the implications are major. Behind that he would have his own database with all rights making possible to him to obtain admin tokens or tokens with every right.

RECO. 6. [ADMIN] Harden RP configuration to protect from OP usurpation when using mod_auth_openidc

It has been proven that it is possible to usurp the OP identity if no particular mechanism is in place. This proof occurs with `mod_auth_openidc` as the RP and with absolutely no custom configuration.

Administrators should ensure that they use an RP able to verify the identity of the OP and to configure it in that way, to prevent any OP usurpation attack.

The configuration of the RP is independent of shibboleth OP. As the Shibboleth OP already include a mechanism to verify the identity of the RP, this is not a vulnerability.

The application of recommendations R48, R49, R50 and R51 of the ANSSI OIDC guide would prevent this bad behavior.

5.2.4 OIDC security synthesis

In the way that the OIDC mode was installed, it was impossible for a Relying Party to register dynamically which is quite a good practice. However, the fact that the metadata are not verified during runtime allow an attacker to craft and redirect authentication to his own server.

5.3 MFA

A multifactor authentication can be setup in Shibboleth.

The configuration is done on the IdP through the file `/opt/shibboleth-idp/conf/authn/mfa-authn-config.xml` which specify the flow of the authentication and `/opt/shibboleth-idp/conf/authn/totp-authn-config.xml` which specifies the seeds used by users.

The MFA module is launchable through the command `/bin/shibboleth-idp/bin/module.sh -e idp.authn.MFA`.

5.3.1 MFA flow

If the login/password authentication is successful, the IdP redirects the user to the TOTP authentication step:

```
(6rep)
HTTP/1.1 302 302
...
Location: /idp/profile/oidc/authorize?execution=els3
...

(7)
GET /idp/profile/oidc/authorize?execution=els3 HTTP/1.1
Host: rocky-idp.eval.lab
Cookie: __Host-JSESSIONID=E6548B2A1FDDC4231785B65423971F84
...
Referer: https://rocky-idp.eval.lab/idp/profile/oidc/authorize?execution=els2
...

(7rep)
HTTP/1.1 200 200
...

<form action="/idp/profile/oidc/authorize?execution=els3" method="post">
<input type="hidden" name="csrf_token"
value="_2739785d31abb8107e13f775c1271071ffbb7bc8" />

<label for="tokencode">Token Code</label>
<input id="tokencode" name="tokencode" type="text" value="" />

<div class="grid">
<div class="grid-item">
<button type="submit" name="_eventId_proceed">
```

```
onClick="this.childNodes[0].nodeValue='Logging in, please  
wait...'>Login</button>  
...  
(8)  
  
POST /idp/profile/oidc/authorize?execution=e1s3 HTTP/1.1  
Host: rocky-idp.eval.lab  
Cookie: __Host-JSESSIONID=E6548B2A1FDDC4231785B65423971F84  
...  
Referer: https://rocky-idp.eval.lab/idp/profile/oidc/authorize?execution=e1s3  
...  
  
csrf_token=_2739785d31abb8107e13f775c1271071ffbb7bc8&tokencode=240798&_eventI  
d_proceed=
```

All this process is chained through the counter in the URL 'execution=e1s3', it's not possible to just send a request to check the token. However, even if the token is well generated and well checked, it is easily brute forcible. Just by sending new post requests while increasing the 'execution' parameter and sending another token. The details of this attack are available at **5.3.2.**

5.3.2 Brute force on MFA

As mentioned above, the IdP doesn't protect from brute-force attack neither for username/password authentication nor for the MFA.

The brute force problem on password can be mitigated by a strict password policy but not for the MFA which is just 6 digits. Resulting in 1.000.000 possibilities

Using burp pro intruder after the username/password authentication:

Dashboard Target Proxy **Intruder** Repeater Collaborator Sequencer Decoder Comparer Logger Organizer Extensions Learn

1 2 x +

Sniper attack

Target ☒ Update H

Positions

```

1 POST /idp/profile/oidc/authorize?execution=els$3$ HTTP/1.1
2 Host: rocky-idp.eval.lab
3 Cookie: __Host-JSESSIONID=CEDCDB16828AF99F1EBA84C5368DE61C
4 Content-Length: 87
5 Cache-Control: max-age=0
6 Sec-Ch-Ua: "Chromium";v="143", "Not A(Brand";v="24"
7 Sec-Ch-Ua-Mobile: ?0
8 Sec-Ch-Ua-Platform: "Linux"
9 Accept-Language: en-US,en;q=0.9
10 Origin: https://rocky-idp.eval.lab
11 Content-Type: application/x-www-form-urlencoded
12 Upgrade-Insecure-Requests: 1
13 User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36
14 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
15 Sec-Fetch-Site: same-origin
16 Sec-Fetch-Mode: navigate
17 Sec-Fetch-User: ?1
18 Sec-Fetch-Dest: document
19 Referer: https://rocky-idp.eval.lab/idp/profile/oidc/authorize?execution=els3
20 Accept-Encoding: gzip, deflate, br
21 Priority: u=0, i
22 Connection: keep-alive
23
24 csrf_token=_9c7644d23451ecf768b5eeb8119e321d233168ea&tokencode=$0000005&_eventId_proceed=

```

It's a reasonable order to say that an attacker can send 300 requests by second resulting in approximately 10.000 requests in 30 seconds. This result in one chance over 100 to bypass the MFA.

VUL. 2. Brute force possible on MFA

As described, an attacker with no particular means, can have 1 chance over 100 to pass the MFA check. One might easily suspect that an attacker would have the time to try it again and again and finally the MFA is completely inefficient.

RECO. 7. [DEV] Implement an anti-bruteforce mechanism on TOTP

Add some checks to ensure a user can't send an indecent number of TOTP requests.

RECO. 8. [ADMIN] Don't use TOTP plugin

Don't USE TOTP plugin instead it's patched or having added brute force anti measures.

5.3.3 MFA security advice

As the MFA is easily brute forcible, it's considered useless, the security of the authentication shouldn't rely on this.

5.4 Other tests

5.4.1 LDAP Injection

As the backend for authentication is a LDAP, evaluators attempted to do some LDAP injection. The product protects itself from brute-force attacks by using the browser's local storage, mitigating the usage of scripts.

The tool 'playwright', which is a python module was used to simulate multiple browser session, resulting in a slow brute-force.

The script used for this is available in appendix **9.4**.

As it was not possible to plug a complete tool on playwright, the set of tested payloads has been taken from most used ones. No one of these payload leads to a problematic or relevant behavior.

The same alert is raised each time a bad username is submit:

The username you entered cannot be identified.

And each time a bad password is submitted too:

The password you entered was incorrect.

The conclusion of this test is that the product doesn't seem to be vulnerable to LDAP Injection. However, it is noteworthy that the behavior between a bad password and a bad username is not the same which leads to an account enumeration.

RECO. 9. [DEV] Change the message on authentication error

These messages can be changed, they are placed in

/opt/tomcat/webapps/idp/WEB-INF/lib/idp-conf-impl-5.1.6.jar/net/shibboleth/idp/messages/messages.properties

By changing these two lines:

Bad-username.message = The username you entered cannot be identified
Bad-password.message = The password you entered was incorrect

By

Bad-username.message = Incorrect credentials
Bad-password.message = Incorrect credentials

It's possible to unzip the 'idp-conf-impl-5.1.6.jar' file, do the modification et zip back these files before relaunch the idp:

```
Jar xf idp-conf-impl-5.1.6.jar  
Do the modifications  
Jar cf idp-conf-impl-5.1.6.jar *  
Systemctl restart httpd tomcat
```

5.4.2 XXE on XML payloads

XXE have been attempted during the last SAML authentication phases.

The IdP delivers a SAML payload to the client, this SAML is an XML and the client gave authenticate to the SP by providing this payload.

The evaluator attempted to modify this payload in order to test if XXE attacks are possibles.

Just by sending

```
<!DOCTYPE foo [
  <!ENTITY myentity "Hello">
]>
<root>
  <data>&myentity;</data>
</root>
```

Base64 encoded at this last authentication phase.

The SP detects that there is a problem and declare that this is not a SAML message.

opensaml::BindingException

The system encountered an error at Mon Jan 12 14:37:51 2026

To report this problem, please contact the site administrator at root@localhost.

Please include the following message in any email:

opensaml::BindingException at (https://rocky-sp.eval.lab/Shibboleth.sso/SAML2/POST)

XML content for SAML 2.0 HTTP-POST Decoder was not a SAML 2.0 response message.

Figure 14 – response on XXE attempt

Referring to the whole SAML payload manipulation, described in **5.1.1.2**, the first line, must contain the fact that this is a SAML response (`<saml2p:Response...`), this first line is identified and signed so not editable.

Regarding to the previous ARP analysis and this test, the evaluator concludes that XXE doesn't seem to be possible.

5.4.3 Fuzzing campaign on xerces-c (XML parsing library)

A fuzzing campaign has been performed on the entry point of the xerces-c library:

```
xercesc_3_3::Base64::decode()
```

and

```
xercesc_3_3::DOMLSParserImpl::parse()
```

This fuzzing campaign doesn't lead to bug discovery.

However, the xerces-c library is also fuzz by the google project 'OSS-fuzz' resulting in a 20% code coverage and no bugs discovered.

It should be noted that these fuzzing results are not an indication that the target is free of vulnerabilities. Significant areas of the codebase remain untested due to limitations in input generation, harness design, or program complexity. As such, the absence of detected issues should not be interpreted as evidence of security.

RECO. 10. [DEV] Update regularly the xerces-c library

As this is C++ which directly parse the XML, evaluator estimate that this is the most dangerous entry-point for an attacker. If a bug is discovered in this part, and as an attacker have complete control on what goes inside xerces-c, and the shibd run as root, it can quickly go to a complete RCE. The administrators should always check that there is no new CVE on xerces-c and should update this library regularly.

5.5 Security status based on the dynamic analysis

The SAML Authentication Request protocol is well implemented and the evaluator didn't manage to find any vulnerability flow or implementation problem, neither on the IdP nor on the SP. Attention has been paid on known attacks like replay attacks, XML signature wrapping, man-in-the-middle or XXE and none of these seems to be applicable.

OIDC protocol was installed in authorization code flow mode and major well-known vulnerabilities failed to be triggered, the fact that an IdP can be usurped, is greatly diminished by the need of the OIDC client secret.

However, the MFA was noted as useless, because of easily realizable brute-force attack. It should not be considered that the MFA add some security.

6. CONFORMITY ANALYSIS

In his globality, the product is compliant to the different ANSSI guidelines, SAML and OIDC are well implemented and by default in the good mode, respectively ARP and Authorization code. For the MFA, as it is not up by default, it must be setup by the administrator but can be implemented, evaluator is wondering how the seeds will be exchanged because that doesn't seem to be implemented or straightforward. Each recommendation that falls to KO are minor and can't lead individually to putting the product in an unsafe state.

7. AUDIT SUMMARY

7.1 Summary of vulnerabilities

The following table summarizes the vulnerabilities identified during the pre-audit. As a remainder, those are weaknesses that lead to an attack scenario.

Table 5 - Summary of vulnerabilities

Vulnerability	Description
VUL. 1	COTS aren't up to date.
VUL. 2	Brute force possible on MFA

7.2 Summary of recommendations

Recommendation	Description
RECO 1	[DEV] Don't create service account with a shell
RECO 2	[ADMIN] Close port TCP/8005
RECO 3	[ADMIN] Apply tomcat hardening guide
RECO 4	[DEV] Check for SQL injection
RECO 5	[ADMIN] Don't use SQL database unless SQL queries are checked for any SQL injection.
RECO 6	[ADMIN] Harden RP configuration to protect from OP usurpation when using mod_auth_openidc
RECO 7	[DEV] Implement an anti-bruteforce mechanism on TOTP
RECO 8	[ADMIN] Don't use TOTP plugin
RECO 9	[DEV] Change the message on authentication error
RECO 10	[DEV] Update regularly the xerces-c library

7.3 Summary of the product's security

This document constitutes the evaluation technical report of product **Shibboleth IdP & SP** in version 5.1.6 & 3.5.1. The present audit, done in a restricted length of time, is a subset of tests of the CSPN schema. Its goal is to determine whether the maturity of the product's security is compliant to the expectation.

During the installation phase, the audit revealed a first problem, the size and the difficulty to install the product, added to a lot of configuration files and a lack of security documentation. The more complex a product is, the easier it is to put it in an unsafe state. Administrators should be careful and take time to think both functionality, security and in-depth defense.

The static analysis also revealed that the products embark outdated COTS, those that are not maintained are not problematic right now, but administrator has to keep an eye on this and update them himself (VUL. 1a). Especially for the library xerces-c, which as a parsing library, written in C++, accessible by everyone on a network is such a good entry point.

Dynamic Analysis has shown that SAML is very well implemented with metadata verified, completely signed SAML payload, un-replayable. But for OIDC, as the exchanged metadata are minimalistic, the evaluator expresses doubt about the capacity for an RP to be sure that he is talking to the good IdP. In this audit, RP was independent from Shibboleth so not evaluated, this was the `mod_oidc` Apache module, and the evaluator manage to usurp IdP identity and authenticate to the `mod_oidc` module with his own fake IdP. In production, it should be verified that the OIDC client (the RP) is authenticating the OIDC provider in a more secure way.

Attacks on the MFA revealed that it is brute forcible (VUL. 2), due to his minimal size (1000000 possibilities) this brute-force is easy to perform and makes the MFA useless.

A little more fact that can be easily corrected is that an attacker can enumerate user accounts because of an error message display during the connection.

In conclusion to this audit, it appears that some of those points are quite problematic but the product can be installed in a secure way. No vulnerabilities were found in the SAML Authentication Request Protocol and it seems to be the more secure way to authenticate. An MFA can also be implemented, even if it is a brute forcible, it's an additional layer of protection.

8. REFERENCES

Table 6 - Documentary references

Reference	Title
[RGS_B]	Référentiel général de sécurité, annexes B : [RGS_B2] : Règles et recommandations concernant la gestion des clés utilisées dans des mécanismes cryptographiques. [RGS_B3] : Règles et recommandations concernant les mécanismes d'authentification.
[PG-083]	Guide des mécanismes cryptographiques – « Règles et recommandations concernant le choix et de dimensionnement des mécanismes cryptographiques » de l'ANSSI, version en vigueur.
AG_MFA	ANSSI guide on Multifactor and password authentication, available at https://messervices.cyber.gouv.fr/documents-guides/anssi-guide-authentification_multifacteur_et_mots_de_passe.pdf
AG_OIDC	ANSSI guide on OIDC implementation, available at https://messervices.cyber.gouv.fr/documents-guides/anssi-guide-recommandations_pour_la_securisation_de_la_mise_en_oeuvre_du_protocole_openid_connect-v1.0.pdf

9. APPENDIX

9.1 Configuration files of the machine which runs the IdP

/etc/httpd/conf.d/ssl.conf

```
SSLPassPhraseDialog exec:/usr/libexec/httpd-ssl-pass-dialog

SSLSessionCache          shmcb:/run/httpd/sslcache(512000)
SSLSessionCacheTimeout   300

SSLCryptoDevice builtin
<VirtualHost _default_:443>

ErrorLog logs/ssl_error_log
TransferLog logs/ssl_access_log
LogLevel warn

SSLEngine on

SSLHonorCipherOrder on

SSLCipherSuite PROFILE=SYSTEM
SSLProxyCipherSuite PROFILE=SYSTEM

SSLCertificateFile /etc/pki/tls/certs/rocky-idp.eval.lab.pem
SSLCertificateKeyFile /etc/pki/tls/private/rocky-idp.eval.lab.key

<FilesMatch "\.(cgi|shtml|phtml|php)$">
    SSLOptions +StdEnvVars
</FilesMatch>
<Directory "/var/www/cgi-bin">
    SSLOptions +StdEnvVars
</Directory>

BrowserMatch "MSIE [2-5]" \
    nokeepalive ssl-unclean-shutdown \
    downgrade-1.0 force-response-1.0

CustomLog logs/ssl_request_log \
    "%t %h %{SSL_PROTOCOL}x %{SSL_CIPHER}x \"%r\" %b"

</VirtualHost>

<VirtualHost *:443>
    ServerName rocky-idp.eval.lab

    SSLEngine on
    SSLCertificateFile /etc/pki/tls/certs/rocky-idp.eval.lab.pem
    SSLCertificateKeyFile /etc/pki/tls/private/rocky-idp.eval.lab.pem

    ProxyPreserveHost On
    ProxyPass          / ajp://127.0.0.1:8009/
    ProxyPassReverse   / ajp://127.0.0.1:8009/
</VirtualHost>
```

/etc/httpd/conf.d/tomcat.conf

```
<VirtualHost *:80>
    ServerName localhost

    ProxyPreserveHost On

    ProxyPass /idp ajp://127.0.0.1:8009/idp
    ProxyPassReverse /idp ajp://127.0.0.1:8009/idp

    ProxyPass /examples ajp://127.0.0.1:8009/examples
    ProxyPassReverse /examples ajp://127.0.0.1:8009/examples

    ErrorLog /var/log/httpd/tomcat_error.log
    CustomLog /var/log/httpd/tomcat_access.log combined
</VirtualHost>
```

/etc/systemd/system/tomcat.service

```
[Unit]
Description=Apache Tomcat 10
After=network.target

[Service]
Type=forking
User=tomcat
Group=tomcat
Environment="JAVA_HOME=/usr/lib/jvm/java-17-openjdk-17.0.17.0.10-1.el9.x86_64"
Environment="CATALINA_PID=/opt/tomcat/temp/tomcat.pid"
Environment="CATALINA_HOME=/opt/tomcat"
Environment="CATALINA_BASE=/opt/tomcat"
ExecStart=/opt/tomcat/bin/catalina.sh start
ExecStop=/opt/tomcat/bin/catalina.sh stop
Restart=on-failure

[Install]
WantedBy=multi-user.target
```

/opt/shibboleth-idp/conf/access-constrol.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
       xmlns:context="http://www.springframework.org/schema/context"
       xmlns:util="http://www.springframework.org/schema/util"
       xmlns:p="http://www.springframework.org/schema/p"
       xmlns:c="http://www.springframework.org/schema/c"
       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
       xsi:schemaLocation="http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans.xsd
http://www.springframework.org/schema/context/spring-context.xsd
http://www.springframework.org/schema/util/spring-util.xsd"

       default-init-method="initialize"
       default-destroy-method="destroy">
  <!--
    Map of access control policies used to limit access to administrative
    functions.
```

The purpose of the map is to label policies with a key/name so they can be reused.

```
-->
<!--
Use the "shibboleth.IPRangeAccessControl" parent bean for IP-based access
control.
The ranges provided MUST be CIDR network expressions. To specify a single
address,
add "/32" or "/128" for IPv4 or IPv6 respectively.
The additional examples below demonstrate how to control access by
username
and by attribute(s), in the case of authenticated access to admin
functions.
-->
<util:map id="shibboleth.AccessControlPolicies">

    <entry key="AccessByIPAddress">
        <bean id="AccessByIPAddress"
parent="shibboleth.IPRangeAccessControl"
        p:allowedRanges="#{ {'127.0.0.1/32', '::1/128'} }" />
    </entry>

    <!--
    <entry key="AccessByAdminUser">
        <bean parent="shibboleth.PredicateAccessControl">
            <constructor-arg>
                <bean parent="shibboleth.Conditions.SubjectName"
c:collection="#{'jdoe'}" />
            </constructor-arg>
        </bean>
    </entry>
    -->

    <!--
    <entry key="AccessByAttribute">
        <bean parent="shibboleth.PredicateAccessControl">
            <constructor-arg>
                <bean parent="shibboleth.Conditions.SimpleAttribute">
                    <property name="attributeValueMap">
                        <map>
                            <entry key="eduPersonEntitlement">
                                <list>

<value>https://example.org/entitlement/idpadmin</value>
                                </list>
                            </entry>
                        </map>
                    </property>
                </bean>
            </constructor-arg>
        </bean>
    </entry>
    -->

</util:map>
</beans>
```

/opt/shibboleth-idp/conf/idp.properties

```
idp.searchForProperties=true
idp.additionalProperties=/credentials/secrets.properties
idp.entityID=https://rocky-idp.eval.lab/idp/shibboleth
```

```

idp.scope=eval.lab
idp.csrf.enabled=true
idp.sealer.storeResource=%{idp.home}/credentials/sealer.jks
idp.sealer.versionResource=%{idp.home}/credentials/sealer.kver
idp.signing.key=%{idp.home}/credentials/idp-signing.key
idp.signing.cert=%{idp.home}/credentials/idp-signing.crt
idp.encryption.key=%{idp.home}/credentials/idp-encryption.key
idp.encryption.cert=%{idp.home}/credentials/idp-encryption.crt
idp.encryption.config=shibboleth.EncryptionConfiguration.GCM
idp.trust.signatures=shibboleth.ExplicitKeySignatureTrustEngine
idp.trust.certificates=shibboleth.ExplicitKeyX509TrustEngine
idp.storage.htmlLocalStorage=true
idp.session.trackSPSessions=true
idp.session.secondaryServiceIndex=true
idp.bindings.inMetadataOrder=false
idp.ui.fallbackLanguages=en,fr,de
idp.audit.shortenBindings=true

```

/opt/shibboleth-idp/conf/ldap.properties

```

idp.authn.LDAP.authenticator          = directAuthenticator
idp.authn.LDAP.ldapURL                = ldap://ldap.eval.lab
idp.authn.LDAP.useStartTLS            = false
idp.authn.LDAP.dnFormat               =
uid=%s,ou=people,dc=example,dc=com
ion,dc=com

```

/opt/shibboleth-idp/conf/metadata-providers.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<MetadataProvider id="ShibbolethMetadata" xsi:type="ChainingMetadataProvider"
  xmlns="urn:mace:shibboleth:2.0:metadata"
  xmlns:security="urn:mace:shibboleth:2.0:security"
  xmlns:saml="urn:oasis:names:tc:SAML:2.0:assertion"
  xmlns:md="urn:oasis:names:tc:SAML:2.0:metadata"
  xmlns:alg="urn:oasis:names:tc:SAML:metadata:algsupport"
  xmlns:ds="http://www.w3.org/2000/09/xmldsig#"
  xmlns:ds11="http://www.w3.org/2009/xmldsig11#"
  xmlns:enc="http://www.w3.org/2001/04/xmlenc#"
  xmlns:enc11="http://www.w3.org/2009/xmlenc11#"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:mace:shibboleth:2.0:metadata
http://shibboleth.net/schema/idp/shibboleth-metadata.xsd
urn:mace:shibboleth:2.0:security
http://shibboleth.net/schema/idp/shibboleth-security.xsd
urn:oasis:names:tc:SAML:2.0:assertion
http://docs.oasis-open.org/security/saml/v2.0/saml-schema-assertion-2.0.xsd
urn:oasis:names:tc:SAML:2.0:metadata
http://docs.oasis-open.org/security/saml/v2.0/saml-schema-metadata-2.0.xsd
urn:oasis:names:tc:SAML:metadata:algsupport
http://docs.oasis-open.org/security/saml/Post2.0/sstc-saml-metadata-
algsupport-v1.0.xsd
http://www.w3.org/2000/09/xmldsig#
http://www.w3.org/TR/2002/REC-xmldsig-core-20020212/xmldsig-core-schema.xsd
http://www.w3.org/2009/xmldsig11#
http://www.w3.org/TR/2013/REC-xmldsig-core1-20130411/xmldsig11-schema.xsd
http://www.w3.org/2001/04/xmlenc#
http://www.w3.org/TR/xmlenc-core/xenc-schema.xsd

```

```

http://www.w3.org/2009/xmlenc11#
http://www.w3.org/TR/2013/REC-xmlenc-core1-20130411/xenc-schema-11.xsd"
  sortKey="1">
    <MetadataProvider id="SPMetadata"
      xsi:type="FileBackedHTTPMetadataProvider"
      backingFile="%{idp.home}/metadata/sp.xml"
      metadataURL="https://rocky-sp.eval.lab/Shibboleth.sso/Metadata"
      disregardTLSCertificate="true">
    </MetadataProvider>
    <!--
    Below you place the mechanisms which define how to load the metadata for
    SP(s) you will
    provide service to.

    Some simple examples are provided. The documentation provides more
    details; in most cases,
    the modern replacement for these older plugins are the
    "DynamicHTTPMetadataProvider" and
    "LocalDynamic" variants, which provide dramatic memory savings and more
    reliable operation.

    NOTE: You do NOT need to load metadata for this IdP itself within this
    configuration.
    -->

    <!--
    Example HTTP metadata provider. Use this if you want to download the
    metadata
    from a remote source.
    You *MUST* provide the SignatureValidationFilter in order to function
    securely.
    Get the public key certificate from the party publishing the metadata,
    and validate
    it with them via some out-of-band mechanisms (e.g., a fingerprint on a
    secure page).
    The EntityRole filter saves memory by only loading metadata from SAML
    roles
    that the IdP needs to interoperate with.
    -->

    <!--
    <MetadataProvider id="HTTPMetadata"
      xsi:type="FileBackedHTTPMetadataProvider"

backingFile="%{idp.home}/metadata/localCopyFromXYZHTTP.xml"
      metadataURL="http://WHATEVER"
      failFastInitialization="false">

      <MetadataFilter xsi:type="SignatureValidation"
certificateFile="%{idp.home}/credentials/metaroot.pem" />
      <MetadataFilter xsi:type="RequiredValidUntil"
maxValidityInterval="P30D"/>
      <MetadataFilter xsi:type="EntityRole">
        <RetainedRole>md:SPSSODescriptor</RetainedRole>
      </MetadataFilter>
    </MetadataProvider>
    -->
    <!--
    Example file metadata provider. Use this if you want to load metadata

```

from a local file. You use this if you have some local SPs which are not "federated" but you wish to offer a service to.

If you do not provide a SignatureValidation filter, then you have the responsibility to ensure that the contents on disk are trustworthy.
-->

```
<!--
<MetadataProvider id="LocalMetadata"
xsi:type="FilesystemMetadataProvider" metadataFile="PATH_TO_YOUR_METADATA"/>
-->
<!--
Example CAS metadata source for managing CAS services using SAML
metadata.
-->
<!--
<MetadataProvider id="CASMetadata"
                xsi:type="FilesystemMetadataProvider"
                metadataFile="PATH_TO_YOUR_METADATA"
                indexesRef="shibboleth.CASMetadataIndices" />
-->
</MetadataProvider>
```

/opt/tomcat/conf/Catalina/localhost/idp.xml

```
<?xml version="1.0" ?>
<Context docBase="/opt/shibboleth-idp/war/idp.war"
        privileged="true"
        antiResourceLocking="false"
        swallowOutput="true" />
```

/opt/tomcat/conf/server.xml

```
<?xml version="1.0" encoding="UTF-8"?>

<Server port="8005" shutdown="SHUTDOWN">
  <Listener className="org.apache.catalina.startup.VersionLoggerListener" />

  <!-- OpenSSL support using Tomcat Native -->
  <Listener className="org.apache.catalina.core.AprLifecycleListener" />

  <Listener
className="org.apache.catalina.core.JreMemoryLeakPreventionListener" />
  <Listener
className="org.apache.catalina.mbeans.GlobalResourcesLifecycleListener" />
  <Listener
className="org.apache.catalina.core.ThreadLocalLeakPreventionListener" />

  <GlobalNamingResources>

    <Resource name="UserDatabase" auth="Container"
              type="org.apache.catalina.UserDatabase"
              description="User database that can be updated and saved"
              factory="org.apache.catalina.users.MemoryUserDatabaseFactory"
              pathname="conf/tomcat-users.xml" />
  </GlobalNamingResources>

  <Service name="Catalina">
    <!-- Define an AJP 1.3 Connector on port 8009 -->
```

```

<Connector protocol="AJP/1.3"
    address="127.0.0.1"
    port="8009"
    redirectPort="8443"
    maxParameterCount="1000"
    secretRequired="false"
/>

<Engine name="Catalina" defaultHost="localhost">

    <Realm className="org.apache.catalina.realm.LockOutRealm">
        <Realm className="org.apache.catalina.realm.UserDatabaseRealm"
            resourceName="UserDatabase"/>
    </Realm>
    <Host name="localhost" appBase="webapps"
        unpackWARs="true" autoDeploy="true">
        <Valve className="org.apache.catalina.valves.AccessLogValve"
directory="logs"
            prefix="localhost_access_log" suffix=".txt"
            pattern="%h %l %u %t &quot;%r&quot; %s %b" />
    </Host>
</Engine>
</Service>
</Server>

```

9.2 Configuration files of the machine which runs the SP

/etc/httpd/conf.d/nagios.conf

```

ScriptAlias /nagios/cgi-bin "/usr/lib64/nagios/cgi-bin/"

<Directory "/usr/lib64/nagios/cgi-bin/">
    Options ExecCGI
    AllowOverride None
    <IfVersion >= 2.3>
        <RequireAll>
            Require all granted

            AuthName "Nagios Access"
            AuthType Basic
            AuthUserFile /etc/nagios/passwd
            Require valid-user
        </RequireAll>
    </IfVersion>
    <IfVersion < 2.3>
        Order allow,deny
        Allow from all

        AuthName "Nagios Access"
        AuthType Basic
        AuthUserFile /etc/nagios/passwd
        Require valid-user
    </IfVersion>
</Directory>

```

```

    </IfVersion>
</Directory>

Alias /nagios "/usr/share/nagios/html"

<Directory "/usr/share/nagios/html">
    Options None
    AllowOverride None
    <IfVersion >= 2.3>
        <RequireAll>
            Require all granted

            AuthName "Nagios Access"
            AuthType Basic
            AuthUserFile /etc/nagios/passwd
            Require valid-user
        </RequireAll>
    </IfVersion>
    <IfVersion < 2.3>
        Order allow,deny
        Allow from all

        AuthName "Nagios Access"
        AuthType Basic
        AuthUserFile /etc/nagios/passwd
        Require valid-user
    </IfVersion>
</Directory>

```

/etc/httpd/conf.d/rocky-sp.eval.lab.conf

```

LoadModule mod_shib /usr/lib64/shibboleth/mod_shib_24.so

<VirtualHost *:80>
    ServerName rocky-sp.eval.lab

    # redirection systématique vers la même URL, en HTTPS
    RedirectMatch ^(.*)$ https://rocky-sp.eval.lab$1
</VirtualHost>

<VirtualHost *:443>
    ServerName rocky-sp.eval.lab

    CustomLog logs/rocky-sp.eval.lab.access.log combined
    ErrorLog logs/rocky-sp.eval.lab.access.error.log

    SSLEngine on
    SSLCertificateFile /etc/pki/tls/certs/rocky-sp.eval.lab.pem
    SSLCertificateKeyFile /etc/pki/tls/private/rocky-sp.eval.lab.pem

    DocumentRoot /usr/share/nagios/html
    ScriptAlias /cgi-bin /usr/lib64/nagios/cgi-bin
    # 1'URL vers les CGI est malheureusement en dur dans les fichiers JS
    ScriptAlias /nagios/cgi-bin /usr/lib64/nagios/cgi-bin

    # Accès autorisé pour n'importe quelle URL
    <Location />
        AuthType shibboleth
        Require shib-session
        ShibRequestSetting requireSession On
    </Location>

```

```

# sauf pour les gestionnaires du SP
<Location /Shibboleth.sso>
    AuthType None
    Require all granted
</Location>

# et les pages d'erreur du SP
Alias /shibboleth-sp/main.css /usr/share/shibboleth/main.css
<Location /shibboleth-sp>
    AuthType None
    Require all granted
</Location>
</VirtualHost>
/etc/httpd/conf.d/ssl.conf
Listen 443 https
SSLPassPhraseDialog exec:/usr/libexec/httpd-ssl-pass-dialog
SSLSessionCache shmcb:/run/httpd/sslcache(512000)
SSLSessionCacheTimeout 300

SSLCryptoDevice builtin
<VirtualHost _default_:443>
ErrorLog logs/ssl_error_log
TransferLog logs/ssl_access_log
LogLevel warn

SSLEngine on
SSLHonorCipherOrder on
SSLCipherSuite PROFILE=SYSTEM
SSLProxyCipherSuite PROFILE=SYSTEM
SSLCertificateFile /etc/pki/tls/certs/localhost.crt
SSLCertificateKeyFile /etc/pki/tls/private/localhost.key

<FilesMatch "\.(cgi|shtml|phtml|php)$">
    SSLOptions +StdEnvVars
</FilesMatch>
<Directory "/var/www/cgi-bin">
    SSLOptions +StdEnvVars
</Directory>
BrowserMatch "MSIE [2-5]" \
    nokeepalive ssl-unclean-shutdown \
    downgrade-1.0 force-response-1.0
CustomLog logs/ssl_request_log \
    "%t %h %{SSL_PROTOCOL}x %{SSL_CIPHER}x \"%r\" %b"
</VirtualHost>

SSLCertificateFile /etc/pki/tls/certs/rocky-sp.eval.lab.pem
SSLCertificateKeyFile /etc/pki/tls/private/rocky-sp.eval.lab.pem

```

/etc/nagios/cgi.cfg

```

main_config_file=/etc/nagios/nagios.cfg
physical_html_path=/usr/share/nagios/html
url_html_path=/
show_context_help=0
use_pending_states=1
use_authentication=1
use_ssl_authentication=0
authorized_for_system_information=nagiosadmin
authorized_for_configuration_information=nagiosadmin
authorized_for_system_commands=nagiosadmin

```

```

authorized_for_all_services=nagiosadmin
authorized_for_all_hosts=nagiosadmin
authorized_for_all_service_commands=nagiosadmin
authorized_for_all_host_commands=nagiosadmin
default_statuswrl_layout=4
ping_syntax=/bin/ping -n -U -c 5 $HOSTADDRESS$
refresh_rate=90
result_limit=100
escape_html_tags=1
action_url_target=_blank
notes_url_target=_blank
lock_author_names=1
navbar_search_for_addresses=1
navbar_search_for_aliases=1

```

/etc/shibboleth/shibboleth2.xml

```

<SPConfig xmlns="urn:mace:shibboleth:3.0:native:sp:config"
  xmlns:conf="urn:mace:shibboleth:3.0:native:sp:config"
  clockSkew="180">

  <OutOfProcess
tranLogFormat="%u|%s|%IDP|%i|%ac|%t|%attr|%n|%b|%E|%S|%SS|%L|%UA|%a" />

  <ApplicationDefaults entityID="https://rocky-
sp.eval.lab/Shibboleth.sso/Metadata"
    REMOTE_USER="eppn subject-id pairwise-id persistent-id"

cipherSuites="DEFAULT:!EXP:!LOW:!aNULL:!eNULL:!DES:!IDEA:!SEED:!RC4:!3DES:!kR
SA:!SSLv2:!SSLv3:!TLSv1:!TLSv1.1">

    <Sessions lifetime="28800" timeout="3600" relayState="ss:mem"
      checkAddress="false" handlerSSL="true" cookieProps="https"
      redirectLimit="exact">

      <SSO entityID="https://rocky-
idp.eval.lab/idp/shibboleth">SAML2</SSO>

      <!-- SAML and local-only logout. -->
      <Logout>SAML2 Local</Logout>

      <!-- Administrative logout. -->
      <LogoutInitiator type="Admin" Location="/Logout/Admin"
acl="127.0.0.1 ::1" />

      <!-- Extension service that generates "approximate" metadata
based on SP configuration. -->
      <Handler type="MetadataGenerator" Location="/Metadata"
signing="false"/>

      <!-- Status reporting service. -->
      <Handler type="Status" Location="/Status" acl="127.0.0.1 ::1"/>

      <!-- Session diagnostic service. -->
      <Handler type="Session" Location="/Session"
showAttributeValues="false"/>

      <!-- JSON feed of discovery information. -->
      <Handler type="DiscoveryFeed" Location="/DiscoFeed"/>
    </Sessions>

    <Errors supportContact="root@localhost"

```

```

        helpLocation="/about.html"
        styleSheet="/shibboleth-sp/main.css"/>

        <MetadataProvider type="XML" validate="true"
            url="https://rocky-idp.eval.lab/idp/shibboleth"
            backingFilePath="idp.xml" maxRefreshDelay="7200">
        </MetadataProvider>

        <AttributeExtractor type="XML" validate="true" reloadChanges="false"
path="attribute-map.xml"/>

        <AttributeFilter type="XML" validate="true" path="attribute-
policy.xml"/>

        <CredentialResolver type="File" use="signing"
            key="sp-signing-key.pem" certificate="sp-signing-cert.pem"/>
        <CredentialResolver type="File" use="encryption"
            key="sp-encrypt-key.pem" certificate="sp-encrypt-cert.pem"/>

    </ApplicationDefaults>

    <SecurityPolicyProvider type="XML" validate="true" path="security-
policy.xml"/>
    <ProtocolProvider type="XML" validate="true" reloadChanges="false"
path="protocols.xml"/>

</SPConfig>

```

9.3 OIDC Requests

(1)

```

GET / HTTP/1.1
Host: rocky-rp.eval.lab
Sec-Ch-Ua: "Chromium";v="143", "Not A(Brand";v="24"
Sec-Ch-Ua-Mobile: ?0
Sec-Ch-Ua-Platform: "Linux"
Accept-Language: en-US,en;q=0.9
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/143.0.0.0 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,i
mage/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
Sec-Fetch-Site: none
Sec-Fetch-Mode: navigate
Sec-Fetch-User: ?1
Sec-Fetch-Dest: document
Accept-Encoding: gzip, deflate, br
Priority: u=0, i
Connection: keep-alive

```

(1rep)

```

HTTP/1.1 302 Found
Date: Wed, 18 Mar 2026 13:27:14 GMT

```

```

Server: Apache/2.4.62 (Rocky Linux) OpenSSL/3.5.1
Set-Cookie: mod_auth_openidc_state_gGfJ-NQr0I1lgU9WyGxUQfGX-
Y8=eyJhbGciOiAiZGlyIiwgImVuYyI6ICJBMjU2R0NNIn0..bthYSUHAwqBegxnW.CzmNy0xI_0Vu
OVhr0m_4rpV9nU6deF8gWbXT5FgIprD0nr0_NTQKAH4QLzZHYJ3niJtflpvnVovmYZhca2ZOBnQf
wKkCDolVqPceKavv0uVLuwBg2l2dIzRHVj8ujIGyarif4cjsCKAd4hvXmI_i_BVi845-
tvvJzOdcLcMGWZoT-
GmtdKZtTwVfF5LoBJxrPz4u0lSpNk3lMufDWol0f08Adwyl_6cFIeB_EVouOPMyDGkVYpYWvU5qj8
FQD8OROFFpplVaF5pJs7QlcPm.skpFsFR2CMKMTwa4gwvoPw; Path=/; Secure; HttpOnly;
SameSite=Lax
Cache-Control: no-cache, no-store, max-age=0
Location: https://rocky-
idp.eval.lab/idp/profile/oidc/authorize?response_type=code&scope=openid%20ema
il%20profile&client_id=user1&state=gGfJ-NQr0I1lgU9WyGxUQfGX-
Y8&redirect_uri=https%3A%2F%2Frocky-
rp.eval.lab%2Fredirect_uri&nonce=jqpXIQUKqUEpAsJqpOcGeGcmeQRABIMtRYxW5UT6mXQ&
code_challenge=fwHeLCiNgmWlCj1ksQNivagQzHLnRjwwLhFspkj4jag&code_challenge_met
hod=S256
Content-Length: 561
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: text/html; charset=iso-8859-1

```

```

<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
<html><head>
<title>302 Found</title>
</head><body>
<h1>Found</h1>
<p>The document has moved <a href="https://rocky-
idp.eval.lab/idp/profile/oidc/authorize?response_type=code&scope=openid%2
0email%20profile&client_id=user1&state=gGfJ-NQr0I1lgU9WyGxUQfGX-
Y8&redirect_uri=https%3A%2F%2Frocky-
rp.eval.lab%2Fredirect_uri&nonce=jqpXIQUKqUEpAsJqpOcGeGcmeQRABIMtRYxW5UT6
mXQ&code_challenge=fwHeLCiNgmWlCj1ksQNivagQzHLnRjwwLhFspkj4jag&code_c
hallenge_method=S256">here</a>.</p>
</body></html>

```

(2)

```

GET
/idp/profile/oidc/authorize?response_type=code&scope=openid%20email%20profile
&client_id=user1&state=gGfJ-NQr0I1lgU9WyGxUQfGX-
Y8&redirect_uri=https%3A%2F%2Frocky-
rp.eval.lab%2Fredirect_uri&nonce=jqpXIQUKqUEpAsJqpOcGeGcmeQRABIMtRYxW5UT6mXQ&
code_challenge=fwHeLCiNgmWlCj1ksQNivagQzHLnRjwwLhFspkj4jag&code_challenge_met
hod=S256 HTTP/1.1
Host: rocky-idp.eval.lab
Accept-Language: en-US,en;q=0.9
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/143.0.0.0 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,i
mage/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
Sec-Fetch-Site: none
Sec-Fetch-Mode: navigate
Sec-Fetch-User: ?1
Sec-Fetch-Dest: document
Sec-Ch-Ua: "Chromium";v="143", "Not A(Brand";v="24"
Sec-Ch-Ua-Mobile: ?0
Sec-Ch-Ua-Platform: "Linux"

```

```
Accept-Encoding: gzip, deflate, br
Priority: u=0, i
Connection: keep-alive
```

```
(2rep)
```

```
HTTP/1.1 302 302
Date: Wed, 18 Mar 2026 13:27:15 GMT
Server: Apache/2.4.62 (Rocky Linux) OpenSSL/3.5.1
Cache-Control: no-store
Set-Cookie: __Host-JSESSIONID=E6548B2A1FDDC4231785B65423971F84; Path=/;
Secure; HttpOnly
X-Frame-Options: DENY
Strict-Transport-Security: max-age=31536000
Content-Security-Policy: frame-ancestors 'none'; base-uri 'none';
Location: /idp/profile/oidc/authorize?execution=els1
Content-Length: 0
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
```

```
(3)
```

```
GET /idp/profile/oidc/authorize?execution=els1 HTTP/1.1
Host: rocky-idp.eval.lab
Cookie: __Host-JSESSIONID=E6548B2A1FDDC4231785B65423971F84
Accept-Language: en-US,en;q=0.9
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/143.0.0.0 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,i
mage/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
Sec-Fetch-Site: none
Sec-Fetch-Mode: navigate
Sec-Fetch-User: ?1
Sec-Fetch-Dest: document
Sec-Ch-Ua: "Chromium";v="143", "Not A(Brand";v="24"
Sec-Ch-Ua-Mobile: ?0
Sec-Ch-Ua-Platform: "Linux"
Accept-Encoding: gzip, deflate, br
Priority: u=0, i
Connection: keep-alive
```

```
(3rep)
```

```
HTTP/1.1 200 200
Date: Wed, 18 Mar 2026 13:27:16 GMT
Server: Apache/2.4.62 (Rocky Linux) OpenSSL/3.5.1
Cache-Control: no-store
X-Frame-Options: DENY
Strict-Transport-Security: max-age=31536000
Content-Security-Policy: frame-ancestors 'none'; base-uri 'none';
Content-Security-Policy: script-src-attr 'unsafe-hashes' 'sha256-
CU5bbbwZt8WqIjaiQQa4SGuJ/yRr2WF3ekUKdF7VneY='
Content-Security-Policy: script-src-elem 'nonce-
_7773a6a6ba223a2be09c2c475327ae37'
Content-Type: text/html; charset=utf-8
Keep-Alive: timeout=5, max=99
Connection: Keep-Alive
Content-Length: 3073
```

```

<!DOCTYPE html>
<html>
  <head>
    <title>Web Login Service - Loading Session Information</title>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1">
    <meta name="viewport" content="width=device-width, initial-scale=1.0,
maximum-scale=5.0">
    <link rel="stylesheet" type="text/css"
href="/idp/css/placeholder.css">
    <script nonce="_7773a6a6ba223a2be09c2c475327ae37"><!-- "use strict";
function readLocalStorage(key) {
  var success;
  try {
    var value = localStorage.getItem(key);
    if (value != null) {
      document.form1["shib_idp_ls_value." + key].value = value;
    }
    success = "true";
  } catch (e) {
    success = "false";
    document.form1["shib_idp_ls_exception." + key].value = e;
  }
  document.form1["shib_idp_ls_success." + key].value = success;
}

function isLocalStorageSupported() {
  try {
    localStorage.setItem("shib_idp_ls_test", "shib_idp_ls_test");
    localStorage.removeItem("shib_idp_ls_test");
    return true;
  } catch (e) {
    return false;
  }
}
// --></script>
</head>
<body onload="doLoad()">
  <main class="main">
    <section>
      <h1>Web Login Service - Loading Session Information</h1>
      <p>Loading login session information from the browser...</p>
      <noscript>
        Since your browser does not support JavaScript, you must
press the Continue button once to proceed.
      </noscript>
      <form name="form1" action="/idp/profile/oidc/authorize?execution=els1"
method="post">
        <input type="hidden" name="csrf_token"
value="_6f01fc3047e8061619ab77d1b546b3ba9cea19d7" />
        <input name="shib_idp_ls_exception.shib_idp_session_ss" type="hidden"
/>
        <input name="shib_idp_ls_success.shib_idp_session_ss" type="hidden"
value="false" />
        <input name="shib_idp_ls_value.shib_idp_session_ss" type="hidden" />
        <input name="shib_idp_ls_exception.shib_idp_persistent_ss"
type="hidden" />
        <input name="shib_idp_ls_success.shib_idp_persistent_ss"
type="hidden" value="false" />

```

```

        <input name="shib_idp_ls_value.shib_idp_persistent_ss" type="hidden"
/>
    <input name="shib_idp_ls_supported" type="hidden" />
    <input name="_eventId_proceed" type="hidden" />
    <noscript>
        <input type="submit" value="Continue" />
    </noscript>
</form>

<script nonce="_7773a6a6ba223a2be09c2c475327ae37">
<!--
function doLoad() {
    var localStorageSupported = isLocalStorageSupported();
    document.form1["shib_idp_ls_supported"].value = localStorageSupported;
    if (localStorageSupported) {
        readLocalStorage("shib_idp_session_ss");
        readLocalStorage("shib_idp_persistent_ss");
    }
    document.form1.submit();
}
// -->
</script>

    </section>
</main>
<footer class="footer">
    <div class="cc">
        <p>Insert your footer text here.</p>
    </div>
</footer>
</body>
</html>

```

(4)

```

POST /idp/profile/oidc/authorize?execution=els1 HTTP/1.1
Host: rocky-idp.eval.lab
Cookie: __Host-JSESSIONID=E6548B2A1FDDC4231785B65423971F84
Content-Length: 1632
Cache-Control: max-age=0
Sec-Ch-Ua: "Chromium";v="143", "Not A(Brand";v="24"
Sec-Ch-Ua-Mobile: ?0
Sec-Ch-Ua-Platform: "Linux"
Accept-Language: en-US,en;q=0.9
Origin: https://rocky-idp.eval.lab
Content-Type: application/x-www-form-urlencoded
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/143.0.0.0 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,i
mage/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
Sec-Fetch-Site: same-origin
Sec-Fetch-Mode: navigate
Sec-Fetch-Dest: document
Referer: https://rocky-idp.eval.lab/idp/profile/oidc/authorize?execution=els1
Accept-Encoding: gzip, deflate, br
Priority: u=0, i
Connection: keep-alive

```

```
csrf_token= 6f01fc3047e8061619ab77d1b546b3ba9cea19d7&shib_idp_ls_exception.sh
ib_idp_session_ss=&shib_idp_ls_success.shib_idp_session_ss=true&shib_idp_ls_v
alue.shib_idp_session_ss=AAdzZWNyZXQxuW5LSiJuC13KvAzAHxb0%2Breht4JYe9v0%2Bd99
dl5oMBGaXe7JAvB5LkhOCDCQ9hG%2BF3Y1mG4HCX7V7vUU06YTWTW3D7W0HdJy%2BInaiVsVvOCkg
4kfUsjzBz6CXpIDnU%2FU7Ed8mwrRkTj2uRkxLXtG4CW9u68MKw2Tejm2MT7jel7Y%2BT%2BKxczu
r%2F0Ao4ms7QDG3hqgls0XwuigWlPRBXBmdko5NzpaQiyYM4vDZWk6Gc3o2P5vuqwPzkbRiSF8Von
m6xCvXvMtAUGDF00DkgXYkT0rF%2FUKiBuA46KM8jhT65RN719B21lKSCX7PEYgnGHLnaCSECDNfn
kztXi3Q4SUpAWzBL0fuOr6oZp74BHVnKDABcDI17HXnEAA5G4E%2F4CPaHr1lFFX4ne0bTIdovYVE
SbjVQmPlqjdjVAIfWQ7IvW2GkhulL5xFaw6KSITIm9MomsqW6eFArwazSows3iqIQV%2BtbEGTNMRJ
XGeu4DK38sCFQpg2LmgyZSZ66ex2winva%2FMNlLw8EYXP%2FpKoGE3W1Asus22tNYZrNgiy7bqH0
MXu8tTPkDcBaEf3qFpZCaClrA9W7%2BM45sxerPG%2BCoKfsy0afa%2FTxHaBsJdKypSmgEosx8%2
Be%2BXY%2BILKwvR3tSXgt0bH9epVAJGsOqVGGtHWdlqjWuzfKST1qyLwt9NZ6AF3H56O7fux563w
QJUfMhUpiv5HQbUvCgwnb6JNrca00uarodZFS%2FzU9gCFyxfrStwexc6vXjpKPwSUTWYoQWEITOR
jrz3m07RYDw7vv%2Fwx5DMzbnEcWrk8DaFEn2TDFnUBylu6tfleDOam0B%2BdJvCY62rn06lK1MAq
qmlrqXa7pf6NabOJ2qGlHpCnAmpneJP8GVuHnG%2FGt2k0vlyNhmLEo9ABw6xLQ7Iyv45ab4bSgzS
73nLYe0hGltcn7eyiuYZImgXQhRzTX3wNhzlggz%2FGEccmSO7pGHSQbVNYy3ljgdmZyncGclG%2F
M7EhGpLSaEBaAj7GsswTHf5ghVDFL%2F253kebsAANFUxIb9wm6Kf4s7uYf%2FrOFIJJZ3EZd5tamB
p7m9LuUFMf8LeHhD0GnBuXYNFR264QKlHD373hJVSfNvfIsoXZNhwJPd%2BGcfFlr8CLubpbKVYIu
438aSwXzJ2MkncF26L6sPxZXCq5vhV%2B3oWuHVA3pVfdgidCnlpwF%2Fq6biZwgh&shib_idp_ls
_exception.shib_idp_persistent_ss=&shib_idp_ls_success.shib_idp_persistent_ss
=true&shib_idp_ls_value.shib_idp_persistent_ss=&shib_idp_ls_supported=true&_e
ventId_proceed=
```

(4rep)

```
HTTP/1.1 302 302
Date: Wed, 18 Mar 2026 13:27:17 GMT
Server: Apache/2.4.62 (Rocky Linux) OpenSSL/3.5.1
Cache-Control: no-store
X-Frame-Options: DENY
Strict-Transport-Security: max-age=31536000
Content-Security-Policy: frame-ancestors 'none'; base-uri 'none';
Location: /idp/profile/oidc/authorize?execution=els2
Content-Length: 0
Keep-Alive: timeout=5, max=96
Connection: Keep-Alive
```

(5)

```
GET /idp/profile/oidc/authorize?execution=els2 HTTP/1.1
Host: rocky-idp.eval.lab
Cookie: __Host-JSESSIONID=E6548B2A1FDDC4231785B65423971F84
Cache-Control: max-age=0
Accept-Language: en-US,en;q=0.9
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/143.0.0.0 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,i
mage/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
Sec-Fetch-Site: same-origin
Sec-Fetch-Mode: navigate
Sec-Fetch-Dest: document
Sec-Ch-Ua: "Chromium";v="143", "Not A(Brand";v="24"
Sec-Ch-Ua-Mobile: ?0
Sec-Ch-Ua-Platform: "Linux"
Referer: https://rocky-idp.eval.lab/idp/profile/oidc/authorize?execution=els1
Accept-Encoding: gzip, deflate, br
Priority: u=0, i
Connection: keep-alive
```

(5rep)

```

HTTP/1.1 200 200
Date: Wed, 18 Mar 2026 13:27:18 GMT
Server: Apache/2.4.62 (Rocky Linux) OpenSSL/3.5.1
Cache-Control: no-store
X-Frame-Options: DENY
Strict-Transport-Security: max-age=31536000
Content-Security-Policy: frame-ancestors 'none'; base-uri 'none';
Content-Security-Policy: script-src-elem 'nonce-
_dceb8e82dc5f8f1bdd9137ce5d88f713'
Content-Security-Policy: script-src-attr 'unsafe-hashes' 'sha256-
VaXrI8WU2iHFaABZhsyhl/jOXUwNJPakSTW/3LGjml0='
Content-Type: text/html; charset=utf-8
Keep-Alive: timeout=5, max=95
Connection: Keep-Alive
Content-Length: 2765

<!DOCTYPE html>
<html>
  <head>
    <title>Web Login Service</title>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1">
    <meta name="viewport" content="width=device-width, initial-scale=1.0,
maximum-scale=5.0">
    <link rel="stylesheet" type="text/css"
href="/idp/css/placeholder.css">
  </head>
  <body>
    <main class="main">
      <header>
        

      </header>

      <section>
        <form action="/idp/profile/oidc/authorize?execution=els2"
method="post">
          <input type="hidden" name="csrf_token"
value="_c166617267e5d70715a64fe4d21cc68bbbf9e00f" />

          <label for="username">Username</label>
          <input type="text" id="username" name="j_username"
value="" />

          <label for="password">Password</label>
          <input type="password" id="password" name="j_password"
value="" />

          <input type="checkbox"
name="donotcache" value="1" id="donotcache" />
          <label for="donotcache">Don't Remember Login</label>

```

```

        <input id="_shib_idp_revokeConsent" type="checkbox"
name="_shib_idp_revokeConsent" value="true" />
        <label for="_shib_idp_revokeConsent">Clear prior granting
of permission for release of your information to this service.</label>

        <div class="grid">
            <div class="grid-item">
                <button type="submit" name="_eventId_proceed"
onClick="this.childNodes[0].nodeValue='Logging in, please wait...'"
                >Login</button>
            </div>
        </div>
    </form>

    <ul>
        <li><a href="#">Forgot your password?</a></li>
        <li><a href="#">Need Help?</a></li>
    </ul>
</section>
</main>
<footer class="footer">
    <div class="cc">
        <p>Insert your footer text here.</p>
    </div>
</footer>

<script nonce="_dceb8e82dc5f8f1bdd9137ce5d88f713">
<!--
const ufield = document.getElementById('username');
const pfield = document.getElementById('password');
if (ufield.value.trim().length == 0) {
    ufield.focus();
} else {
    pfield.focus();
}
// -->
</script>

</body>
</html>

```

(6)

```

POST /idp/profile/oidc/authorize?execution=els2 HTTP/1.1
Host: rocky-idp.eval.lab
Cookie: __Host-JSESSIONID=E6548B2A1FDDC4231785B65423971F84
Content-Length: 104
Cache-Control: max-age=0
Sec-Ch-Ua: "Chromium";v="143", "Not A(Brand";v="24"
Sec-Ch-Ua-Mobile: ?0
Sec-Ch-Ua-Platform: "Linux"
Accept-Language: en-US,en;q=0.9
Origin: https://rocky-idp.eval.lab
Content-Type: application/x-www-form-urlencoded
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/143.0.0.0 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,i
mage/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7

```

```
Sec-Fetch-Site: same-origin
Sec-Fetch-Mode: navigate
Sec-Fetch-User: ?1
Sec-Fetch-Dest: document
Referer: https://rocky-idp.eval.lab/idp/profile/oidc/authorize?execution=els2
Accept-Encoding: gzip, deflate, br
Priority: u=0, i
Connection: keep-alive
```

```
csrf_token=_cl66617267e5d70715a64fe4d21cc68bbbf9e00f&j_username=user1&j_password=user1&_eventId_proceed=
```

(6rep)

```
HTTP/1.1 302 302
Date: Wed, 18 Mar 2026 13:27:24 GMT
Server: Apache/2.4.62 (Rocky Linux) OpenSSL/3.5.1
Cache-Control: no-store
X-Frame-Options: DENY
Strict-Transport-Security: max-age=31536000
Content-Security-Policy: frame-ancestors 'none'; base-uri 'none';
Location: /idp/profile/oidc/authorize?execution=els3
Content-Length: 0
Keep-Alive: timeout=5, max=92
Connection: Keep-Alive
```

(7)

```
GET /idp/profile/oidc/authorize?execution=els3 HTTP/1.1
Host: rocky-idp.eval.lab
Cookie: __Host-JSESSIONID=E6548B2A1FDDC4231785B65423971F84
Cache-Control: max-age=0
Accept-Language: en-US,en;q=0.9
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
Sec-Fetch-Site: same-origin
Sec-Fetch-Mode: navigate
Sec-Fetch-User: ?1
Sec-Fetch-Dest: document
Sec-Ch-Ua: "Chromium";v="143", "Not A(Brand";v="24"
Sec-Ch-Ua-Mobile: ?0
Sec-Ch-Ua-Platform: "Linux"
Referer: https://rocky-idp.eval.lab/idp/profile/oidc/authorize?execution=els2
Accept-Encoding: gzip, deflate, br
Priority: u=0, i
Connection: keep-alive
```

(7rep)

```
HTTP/1.1 200 200
Date: Wed, 18 Mar 2026 13:27:25 GMT
Server: Apache/2.4.62 (Rocky Linux) OpenSSL/3.5.1
Cache-Control: no-store
X-Frame-Options: DENY
Strict-Transport-Security: max-age=31536000
Content-Security-Policy: frame-ancestors 'none'; base-uri 'none';
```

```
Content-Security-Policy: script-src-attr 'unsafe-hashes' 'sha256-
fmo0/fxR36XPCXVwua+AGphgDZhgeYOotloCVT/yXHc=' 'sha256-
VaXrI8WU2iHFaABZhsyhl/jOXUwNJPakSTW/3LGjml0='
Content-Type: text/html; charset=utf-8
Keep-Alive: timeout=5, max=91
Connection: Keep-Alive
Content-Length: 1752
```

```
<!DOCTYPE html>
<html>
  <head>
    <title>Web Login Service</title>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1">
    <meta name="viewport" content="width=device-width, initial-scale=1.0,
maximum-scale=5.0">
    <link rel="stylesheet" type="text/css"
href="/idp/css/placeholder.css">
  </head>
  <body onLoad="document.getElementById('tokencode').focus()">
    <main class="main">
      <header>
        

      </header>

      <section>
        <form action="/idp/profile/oidc/authorize?execution=els3"
method="post">
          <input type="hidden" name="csrf_token"
value="_2739785d31abb8107e13f775c1271071ffbb7bc8" />

          <label for="tokencode">Token Code</label>
          <input id="tokencode" name="tokencode" type="text"
value="" />

          <div class="grid">
            <div class="grid-item">
              <button type="submit" name="_eventId_proceed"
onClick="this.childNodes[0].nodeValue='Logging in, please
wait...'">Login</button>
            </div>
          </div>
        </form>

        <ul>
          <li><a href="#">Forgot your password?</a></li>
          <li><a href="#">Need Help?</a></li>
        </ul>
      </section>
    </main>
    <footer class="footer">
      <div class="cc">
        <p>Insert your footer text here.</p>
```

```

    </div>
  </footer>
</body>
</html>

```

(8)

```

POST /idp/profile/oidc/authorize?execution=els3 HTTP/1.1
Host: rocky-idp.eval.lab
Cookie: __Host-JSESSIONID=E6548B2A1FDDC4231785B65423971F84
Content-Length: 87
Cache-Control: max-age=0
Sec-Ch-Ua: "Chromium";v="143", "Not A(Brand";v="24"
Sec-Ch-Ua-Mobile: ?0
Sec-Ch-Ua-Platform: "Linux"
Accept-Language: en-US,en;q=0.9
Origin: https://rocky-idp.eval.lab
Content-Type: application/x-www-form-urlencoded
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/143.0.0.0 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,i
mage/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
Sec-Fetch-Site: same-origin
Sec-Fetch-Mode: navigate
Sec-Fetch-User: ?1
Sec-Fetch-Dest: document
Referer: https://rocky-idp.eval.lab/idp/profile/oidc/authorize?execution=els3
Accept-Encoding: gzip, deflate, br
Priority: u=0, i
Connection: keep-alive

csrf_token=_2739785d31abb8107e13f775c1271071ffbb7bc8&tokencode=240798&_eventI
d_proceed=

```

(8rep)

```

HTTP/1.1 302 302
Date: Wed, 18 Mar 2026 13:27:36 GMT
Server: Apache/2.4.62 (Rocky Linux) OpenSSL/3.5.1
Cache-Control: no-store
X-Frame-Options: DENY
Strict-Transport-Security: max-age=31536000
Content-Security-Policy: frame-ancestors 'none'; base-uri 'none';
Set-Cookie: __Host-
shib_idp_session=5489c17b3714f741815205256812626d6d3df6d929c8654c1a1207de0cee
2f5c; Path=/; Secure; HttpOnly
Location: /idp/profile/oidc/authorize?execution=els4
Content-Length: 0
Keep-Alive: timeout=5, max=99
Connection: Keep-Alive

```

(9)

```

GET /idp/profile/oidc/authorize?execution=els4 HTTP/1.1
Host: rocky-idp.eval.lab
Cookie: __Host-JSESSIONID=E6548B2A1FDDC4231785B65423971F84; __Host-
shib_idp_session=5489c17b3714f741815205256812626d6d3df6d929c8654c1a1207de0cee
2f5c

```

```

Cache-Control: max-age=0
Accept-Language: en-US,en;q=0.9
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/143.0.0.0 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,i
mage/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
Sec-Fetch-Site: same-origin
Sec-Fetch-Mode: navigate
Sec-Fetch-User: ?1
Sec-Fetch-Dest: document
Sec-Ch-Ua: "Chromium";v="143", "Not A(Brand";v="24"
Sec-Ch-Ua-Mobile: ?0
Sec-Ch-Ua-Platform: "Linux"
Referer: https://rocky-idp.eval.lab/idp/profile/oidc/authorize?execution=els3
Accept-Encoding: gzip, deflate, br
Priority: u=0, i
Connection: keep-alive

```

(9rep)

```

HTTP/1.1 200 200
Date: Wed, 18 Mar 2026 13:27:37 GMT
Server: Apache/2.4.62 (Rocky Linux) OpenSSL/3.5.1
Cache-Control: no-store
X-Frame-Options: DENY
Strict-Transport-Security: max-age=31536000
Content-Security-Policy: frame-ancestors 'none'; base-uri 'none';
Content-Security-Policy: script-src-attr 'unsafe-hashes' 'sha256-
mEND6qwFu+6a0S3A0SUxo6j8C+XYxTFmV19sy5Z8/yE='
Content-Security-Policy: script-src-elem 'nonce-
_66a2c2078978a459314d07d91efleade'
Content-Type: text/html; charset=utf-8
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Length: 3218

```

```

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en">
  <head>
    <title>Web Login Service - Saving Session Information...</title>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1">
    <meta name="viewport" content="width=device-width, initial-scale=1.0,
maximum-scale=5.0">
    <link rel="stylesheet" type="text/css"
href="/idp/css/placeholder.css">
    <script nonce="_66a2c2078978a459314d07d91efleade"><!-- "use strict";
function writeLocalStorage(key, value) {
  var success;
  try {
    if (value == null || value.length == 0) {
      localStorage.removeItem(key);
    } else {
      localStorage.setItem(key, value);
    }
    success = "true";
  } catch (e) {

```

```

        success = "false";
        document.form1["shib_idp_ls_exception." + key].value = e;
    }
    document.form1["shib_idp_ls_success." + key].value = success;
} // --></script>
</head>
<body onload="doSave()">
    <main class="main">
        <section>
            <h1>Web Login Service - Saving Session Information...</h1>
            <p>Saving login session information to the browser...</p>
            <noscript>
                <div class="content">
                    Since your browser does not support JavaScript, you must
press the Continue button once to proceed.
                </div>
            </noscript>
            <form name="form1" action="/idp/profile/oidc/authorize?execution=els4"
method="post">
                <input type="hidden" name="csrf_token"
value="_a256aa032400b683d7f080d78f78f2df45c79a8c" />
                <input name="shib_idp_ls_exception.shib_idp_session_ss" type="hidden"
/>
                <input name="shib_idp_ls_success.shib_idp_session_ss" type="hidden"
value="false" />
                <input name="_eventId_proceed" type="hidden" />
            <noscript>
                <input type="submit" value="Continue" />
            </noscript>
        </form>

        <script nonce="_66a2c2078978a459314d07d91ef1eade">
        <!--
function doSave() {
    writeLocalStorage("shib_idp_session_ss",
"AAadzZWNyZXQxXISRkJsQwXxLPPf5rGL+dxlOeeNAwBydMvKT72RDmdulFHjU0mDIA/2H+K86o4/K
xU7/xCXfX0jfuwnQNEli5qElfvD2TJdlRBZ32jiaE5h3pp/GsMnWaNyXwSkTJs5iQJ7soExiuGz5a
FePCfu8mXa5XwHVWJXuxXqwm3s/EPKyZa4wTH1oN4GEnzrvNzZ3gVXX0OoqCM/uy6OEmh/Q6eqzfkR
eW/0KhcmkvNyKefwrndZLwt6Hs5DUD6/1JYLDPhB0k/4+yedRIwMsB+f4yzqrbjq4+4lRStQNRV1C
swNoQAglN3ShbHifDzpL2A2iFRJemGh9UfxIm1DBcXfyY6DOezmYpzQwp3O+CgM/Y6IXF/UmfQKyZ
UoEd/r8OASxIyEaKjW8HgNWDqrU+K7Rzw3L326/RhFZ/IGF4dVw4cp/MubLrRp2b+gUwsIwBlSk7h
fVE0w8zxWsScSV9pn1FdLsYGj/aQ5toAm0oEmh27uuBSeIG7V3GH5a5BCqyjpi3oP9hQWP6Utn3UV
s2QW30c/x32PU2ULBtEAWCXLBz+Vo24n3yXsqX/S4Ib0Uvmj+IX91TKL89VL5FOwKdZaYRD7i5kk2
9pRZ3zLH/aATZfX+n+R/UEYJZIKw+KzxJj/Pq5rv2oODnZucWxH/3XMR2uDXdWS/wpGU0ajyNTky2
C3yAIi5kmjZNBwhbWl0HulI+uFfj6wGds/EyCEeOGrMQFyZxkU1ruE5CeYeZCtFgAlamJIBMC/Afs
BPzUPe0LCqmBEKPnei35PPnu9VNze31Bqw6rjwJmsSR3LZkAjer+g46xynXu96mNmQBOBcQLlBLTU
OlrAxqQOoG4jc+rli0X7hRD0IbhrGKerwFNMaB");
    document.form1.submit();
}
// -->
</script>
        </section>
    </main>
    <footer class="footer">
        <div class="cc">
            <p>Insert your footer text here.</p>
        </div>
    </footer>
</body>
</html>

```

(10)

```
POST /idp/profile/oidc/authorize?execution=els4 HTTP/1.1
Host: rocky-idp.eval.lab
Cookie: __Host-JSESSIONID=E6548B2A1FDDC4231785B65423971F84; __Host-shib_idp_session=5489c17b3714f741815205256812626d6d3df6d929c8654c1a1207de0cee2f5c
Content-Length: 158
Cache-Control: max-age=0
Sec-Ch-Ua: "Chromium";v="143", "Not A(Brand";v="24"
Sec-Ch-Ua-Mobile: ?0
Sec-Ch-Ua-Platform: "Linux"
Accept-Language: en-US,en;q=0.9
Origin: https://rocky-idp.eval.lab
Content-Type: application/x-www-form-urlencoded
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/143.0.0.0 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
Sec-Fetch-Site: same-origin
Sec-Fetch-Mode: navigate
Sec-Fetch-Dest: document
Referer: https://rocky-idp.eval.lab/idp/profile/oidc/authorize?execution=els4
Accept-Encoding: gzip, deflate, br
Priority: u=0, i
Connection: keep-alive

csrf_token=_a256aa032400b683d7f080d78f78f2df45c79a8c&shib_idp_ls_exception.shib_idp_session_ss=&shib_idp_ls_success.shib_idp_session_ss=true&_eventId_proceed=
```

(10rep)

```
HTTP/1.1 302 302
Date: Wed, 18 Mar 2026 13:27:40 GMT
Server: Apache/2.4.62 (Rocky Linux) OpenSSL/3.5.1
Cache-Control: no-store
X-Frame-Options: DENY
Strict-Transport-Security: max-age=31536000
Content-Security-Policy: frame-ancestors 'none'; base-uri 'none';
Location: https://rocky-rp.eval.lab/redirect_uri?code=AAdzZWNyZXQxkMilDMVhKUbsq7WF2DkoxzB1x-9ckcT5ig-82P6N0fBui04J465eebWq_X86FHPgkVWKUOet7aI-oU356CednkEEVuFQEPk0ePWlnk26M__HphPD1fhLEv6lodEvYhzcCFRGGeu4Sb1Zi2_2zzz61ggxggO_TgEmT4ScOnlmsrMNEoz5IDuAAirLWTA8KqsuIY7wmJHcZ1FIY89SvFgPKz2w3YywI2edS48ibg3SJ-amUfVey8vfAt-102xp9uao5ovn582Ya04F6LNQ3hCwR4DHETg2mHxv3xdFI1W9HI-byQ1rhhvoPzCUZnA6grFDRUWqb5CabHYAQtDgRA2uX3DEMxnAwtG53G_m3AfKote2yuAWiS2Gt7EhuQ7EAd6WSYUVvfi7hLrbNhoyboHj5XRqyNPL5tsdAFVPUAy07QpHuQOm1jrI9U_-9VFhQU8q5Pqk7LvNL9r6YPVcbQnHkEH0dDOJcLyUX0JADqEl1zyIcUsGyYeyrk3hCfNo_5K21Ih20layw&state=gGfJ-NQr0IllgU9WyGxUQfGX-Y8
Content-Length: 0
Keep-Alive: timeout=5, max=98
Connection: Keep-Alive
```

(11)

```

GET /redirect_uri?code=AAdzZWNyZXQxkMilDMVhKUbsq7WF2DkoxzBlx-9ckcT5ig-
82P6N0fBui04J465eebWq_X86FHPgkVWKUOet7aI-
oU356CednkEEVuFQEPk0ePWlnk26M__HphPD1fhLEv6lodEvYhzcCFRGGGu4Sb1Zi2_2zzz61ggx
ggO_TgEmT4ScOnlmsrMNEoz5IDuAAirLWTA8KqsuIY7wmJHCZ1FIY89SvFgPKz2w3Yywi2edS48ib
i3SJ-amUfVey8vfAt-102xp9uao5ovn582YaO4F6LNQ3hCwR4DHETg2mHxv3xdFI1W9HI-
byQ1rhhvoPzCUZnA6grFDRUWqb5CabHYAQtDgRA2uX3DEMxnAwTg53G_m3AfKote2yuAWiS2Gt7Eh
uQ7EAd6WSYUVvfi7hLrbNhoyboHj5XRqyNPL5tsdAFVPUAy07QpHuQOm1jrI9U_-
9VFhQU8q5Pqk7LvNL9r6YPVcbQnHKEH0dDOJcLyUX0JADqEl1zyIcUsGyYeyrk3hCfNo_5K21Ih20
layw&state=gGfJ-NQr0IillgU9WyGxUQfGX-Y8 HTTP/1.1
Host: rocky-rp.eval.lab
Cookie: mod_auth_openidc_state_gGfJ-NQr0IillgU9WyGxUQfGX-
Y8=eyJhbGciOiAiAxiZGlyIiwgImVuYyI6ICJBMjU2R0NNIn0..bthYSUHAwqBegxnW.CzmNy0xI_0Vu
OVhr0m_4rpV9nU6deF8gWbXT5FgIprd0nr0_NTQKAH4QLzZHYJ3niJtflpvnVovmYZhca2ZOBNqf
wKkCDolVqPceKavv0uVLuwBg2l2dIzRHVj8ujIGyarif4cjsCKAd4hvXmI_i_BVi845-
tvvJzOdcLcMGWZoT-
GmtdKZtTwVF5LoBJxrPz4u0lSpNk31MufDWol0f08Adwyl_6cFIeB_EVouOPMyDGkVYpYWvU5qj8
FQD8OROFFpplVaF5pJs7QlcPm.skpFsFR2CMKMTWa4gwvoPw
Cache-Control: max-age=0
Accept-Language: en-US,en;q=0.9
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/143.0.0.0 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,i
mage/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
Sec-Fetch-Site: same-site
Sec-Fetch-Mode: navigate
Sec-Fetch-Dest: document
Sec-Ch-Ua: "Chromium";v="143", "Not A(Brand";v="24"
Sec-Ch-Ua-Mobile: ?0
Sec-Ch-Ua-Platform: "Linux"
Referer: https://rocky-idp.eval.lab/
Accept-Encoding: gzip, deflate, br
Priority: u=0, i
Connection: keep-alive

```

(11rep)

```

HTTP/1.1 302 Found
Date: Wed, 18 Mar 2026 13:27:48 GMT
Server: Apache/2.4.62 (Rocky Linux) OpenSSL/3.5.1
Set-Cookie: mod_auth_openidc_state_gGfJ-NQr0IillgU9WyGxUQfGX-Y8=; Path=/;
Expires=Thu, 01 Jan 1970 00:00:00 GMT; Secure; HttpOnly; SameSite=None
Set-Cookie:
mod_auth_openidc_session=fef2ed419c0823a8061e623560f72e4a4548be04; Path=/;
Secure; HttpOnly; SameSite=Lax
Location: https://rocky-rp.eval.lab/
Content-Length: 210
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: text/html; charset=iso-8859-1

```

```

<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
<html><head>
<title>302 Found</title>
</head><body>
<h1>Found</h1>
<p>The document has moved <a href="https://rocky-rp.eval.lab/">here</a>.</p>
</body></html>

```

(12)

```
GET / HTTP/1.1
Host: rocky-rp.eval.lab
Cookie: mod_auth_openidc_session=fef2ed419c0823a8061e623560f72e4a4548be04
Cache-Control: max-age=0
Accept-Language: en-US,en;q=0.9
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/143.0.0.0 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,i
mage/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
Sec-Fetch-Site: same-site
Sec-Fetch-Mode: navigate
Sec-Fetch-Dest: document
Sec-Ch-Ua: "Chromium";v="143", "Not A(Brand";v="24"
Sec-Ch-Ua-Mobile: ?0
Sec-Ch-Ua-Platform: "Linux"
Referer: https://rocky-idp.eval.lab/
Accept-Encoding: gzip, deflate, br
Priority: u=0, i
Connection: keep-alive
```

(12rep)

```
HTTP/1.1 200 OK
Date: Wed, 18 Mar 2026 13:27:50 GMT
Server: Apache/2.4.62 (Rocky Linux) OpenSSL/3.5.1
Set-Cookie:
mod_auth_openidc_session=fef2ed419c0823a8061e623560f72e4a4548be04; Path=/;
Secure; HttpOnly; SameSite=Lax
Keep-Alive: timeout=5, max=99
Connection: Keep-Alive
Content-Type: text/html; charset=UTF-8
Content-Length: 5934
```

WEBSITE CONTENT

9.4 Ldap Injection script

```
from playwright.sync_api import sync_playwright
import base64
import random
import string
import time

ldap_pw_payload = []
ldap_un_payload = []
fp = open("./ldap_pw_payloads.txt", "r")
fu = open("./ldap_un_payloads.txt", "r")
l = fp.readline()[:-1]
ldap_pw_payload.append(l)
while l != "":
    l = fp.readline()[:-1]
    ldap_pw_payload.append(l)
l = fu.readline()[:-1]
ldap_un_payload.append(l)
while l != "":
    l = fu.readline()[:-1]
    ldap_un_payload.append(l)

with sync_playwright() as p:
    browser = p.chromium.launch(headless=False)
    for i in range(len(ldap_pw_payload)):
        for j in range(len(ldap_un_payload)):
            ctx = browser.new_context(ignore_https_errors=True)
            page = ctx.new_page()
            page.goto('https://rocky-sp.eval.lab/app1')

            page.wait_for_selector('input[name=j_username]')
            page.fill("input[name=j_username]", ldap_un_payload[j])
            page.fill("input[name=j_password]", ldap_pw_payload[i])
            page.click("button[name=_eventId_proceed]")
            time.sleep(0.2)
```

9.5 Nmap on the IdP

```
$ nmap -sC -sV -sS -p- 192.168.10.50
Starting Nmap 7.98 ( https://nmap.org ) at 2026-04-30 07:50 +0200
Nmap scan report for 192.168.10.50
Host is up (0.00019s latency).
Not shown: 65532 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 8.7 (protocol 2.0)
| ssh-hostkey:
|_  256 66:34:83:7d:8b:c3:1f:7d:b6:aa:80:c0:62:46:58:2c (ECDSA)
|_  256 c4:f2:59:50:92:11:c3:a4:10:2c:d1:f3:3e:ae:ee:c1 (ED25519)
80/tcp    open  http      Apache httpd 2.4.62 ((Rocky Linux) OpenSSL/3.5.1)
|_ http-title: HTTP Server Test Page powered by: Rocky Linux
|_ http-server-header: Apache/2.4.62 (Rocky Linux) OpenSSL/3.5.1
```

```
| http-methods:
|_ Potentially risky methods: TRACE
443/tcp open  ssl/http Apache httpd 2.4.62 ((Rocky Linux) OpenSSL/3.5.1)
| http-methods:
|_ Potentially risky methods: TRACE
|_ tls-alpn:
|_ http/1.1
|_ ssl-date: TLS randomness does not represent time
|_ http-server-header: Apache/2.4.62 (Rocky Linux) OpenSSL/3.5.1
|_ ssl-cert: Subject: commonName=rocky-idp.eval.lab/organizationName=Default Company
Ltd/countryName=XX
| Not valid before: 2025-12-01T14:05:03
|_ Not valid after: 2028-03-05T14:05:03
|_ http-title: HTTP Server Test Page powered by: Rocky Linux
MAC Address: BC:24:11:85:C9:B2 (Proxmox Server Solutions GmbH)

Service detection performed. Please report any incorrect results at https://nmap.org/submit/.
Nmap done: 1 IP address (1 host up) scanned in 16.87 seconds
```

9.6 Dirsearch on the IdP

```
$ dirsearch --url http://192.168.10.50 --wordlist /usr/share/seclists/Discovery/Web-Content/common.txt,/usr/share/seclists/Discovery/Web-Content/combined_directories.txt,/usr/share/seclists/Discovery/Web-Content/combined_words.txt,/usr/share/seclists/Discovery/Web-Content/Web-Servers/Apache-Tomcat.txt --recursive
/usr/lib/python3/dist-packages/dirsearch/dirsearch.py:23: DeprecationWarning: pkg_resources is deprecated as an API. See https://setuptools.pypa.io/en/latest/pkg_resources.html
  from pkg_resources import DistributionNotFound, VersionConflict
```

v0.4.3

```
Extensions: php, aspx, jsp, html, js | HTTP method: GET | Threads: 25 | Wordlist size: 128708
```

Output File: /home/amossys/reports/http_192.168.10.50/_26-04-09_17-55-26.txt

```
Target: http://192.168.10.50/
```

```
[17:55:26] Starting:
[17:55:26] 200 - 4KB - /.well-known/openid-configuration
[17:55:31] 403 - 199B - /cgi-bin/
Added to the queue: cgi-bin/
[17:55:34] 302 - 0B - /examples -> /examples/
Added to the queue: examples/
[17:55:36] 302 - 0B - /idp -> /idp/
Added to the queue: idp/
[17:58:19] 403 - 199B - /.htm
[17:58:19] 403 - 199B - /.html
[17:58:20] 403 - 199B - /.htc
[17:58:20] 403 - 199B - /.html_var_de
[17:58:22] 403 - 199B - /.html.
[17:58:22] 403 - 199B - /.html.html
[17:58:23] 403 - 199B - /.htpasswd
[17:58:25] 403 - 199B - /.htm.
[17:58:26] 403 - 199B - /.html1
[17:58:27] 403 - 199B - /.html.old
[17:58:29] 403 - 199B - /.html.bak
[17:58:29] 403 - 199B - /.ht
[17:58:30] 403 - 199B - /.htm.htm
```

```

[17:58:35] 403 - 199B - /.html1
[17:58:40] 403 - 199B - /.html.printable
[17:58:40] 403 - 199B - /.html.lck
[17:58:47] 403 - 199B - /.htm.lck
[17:58:57] 403 - 199B - /.html.php
[17:58:57] 403 - 199B - /.htmls
[17:58:57] 403 - 199B - /.htx
[17:59:17] 403 - 199B - /.htm2
[17:59:17] 403 - 199B - /.htmlm
[17:59:17] 403 - 199B - /.htuser
[17:59:17] 403 - 199B - /.html-
[17:59:55] 403 - 199B - /.html_var_DE
[17:59:58] 403 - 199B - /.html.LCK
[17:59:59] 403 - 199B - /.htm.LCK
[18:00:12] 403 - 199B - /.htaccess
[18:00:12] 403 - 199B - /.htm.d
[18:00:12] 403 - 199B - /.htm.html
[18:00:12] 403 - 199B - /.htm.old
[18:00:12] 403 - 199B - /.html.orig
[18:00:12] 403 - 199B - /.html-1
[18:00:12] 403 - 199B - /.html.sav
[18:00:12] 403 - 199B - /.html_
[18:00:12] 403 - 199B - /.htmlpar
[18:00:12] 403 - 199B - /.html_files
[18:00:12] 403 - 199B - /.htmlprint
[18:00:12] 403 - 199B - /.hts
[18:02:19] 403 - 199B - /.htm.rc
[18:02:19] 403 - 199B - /.htm.bak
[18:02:19] 403 - 199B - /.htm3
[18:02:19] 403 - 199B - /.htm8
[18:02:19] 403 - 199B - /.htm5
[18:02:19] 403 - 199B - /.htm7
[18:02:19] 403 - 199B - /.htm_
[18:02:19] 403 - 199B - /.html-0
[18:02:19] 403 - 199B - /.html--
[18:02:19] 403 - 199B - /.html-old
[18:02:19] 403 - 199B - /.html.htm
[18:02:19] 403 - 199B - /.html-2
[18:02:19] 403 - 199B - /.html-p
[18:02:19] 403 - 199B - /.html-c
[18:02:19] 403 - 199B - /.html.images
[18:02:19] 403 - 199B - /.html.pdf
[18:02:19] 403 - 199B - /.html.start
[18:02:19] 403 - 199B - /.html.inc
[18:02:19] 403 - 199B - /.html.none
[18:02:19] 403 - 199B - /.html.txt
[18:02:19] 403 - 199B - /.html5
[18:02:19] 403 - 199B - /.html4
[18:02:19] 403 - 199B - /.htmlbak
[18:02:19] 403 - 199B - /.html7
[18:02:19] 403 - 199B - /.htmldolmetschen
[18:02:19] 403 - 199B - /.html_old
[18:02:19] 403 - 199B - /.htmla
[18:02:19] 403 - 199B - /.htmlfeed
[18:02:19] 403 - 199B - /.htmlc
[18:02:19] 403 - 199B - /.htmlq
[18:02:19] 403 - 199B - /.htmlu
[18:02:19] 403 - 199B - /.htn
[18:09:57] 403 - 199B - /.htmlBAK
[18:09:57] 403 - 199B - /.htmlDolmetschen
[18:11:38] 403 - 865B - /examples/jsp/source.jsp
[18:11:38] 403 - 865B -
/examples/servlet/org.apache.catalina.servlets.WebdavServlet/jsp/source.jsp
[18:11:38] 403 - 865B - /examples/servlet/TroubleShooter
[18:11:38] 403 - 865B - /examples/servlet/snoop
[18:11:38] 403 - 865B - /examples/servlet/org.apache.catalina.INVOKER.TroubleShooter

```

```

[18:11:38] 403 - 865B - /examples/servlet/HelloWorldExample
[18:11:38] 403 - 865B - /examples/servlets/index.html
[18:11:38] 403 - 865B - /examples/servlet/org.apache.catalina.INVOKER.SnoopServlet
[18:11:38] 403 - 865B - /examples/servlet/org.apache.catalina.INVOKER.HelloWorldExample
[18:11:38] 403 - 865B - /examples/jsp/index.html
[18:11:38] 403 - 865B -
/examples/servlet/org.apache.catalina.servlets.DefaultServlet/jsp/source.jsp
[18:11:38] 403 - 865B - /examples/servlet/default/jsp/source.jsp
[18:11:38] 403 - 865B - /examples/jsp/snp/snoop.jsp
[18:11:38] 403 - 865B - /examples/servlet/SnoopServlet
[18:11:38] 403 - 865B - /examples/%252e%252e/manager/html
[18:11:38] 403 - 865B -
/examples/servlet/org.apache.catalina.servlets.DefaultServlet/jsp/snp/snoop.jsp
[18:11:38] 403 - 865B -
/examples/servlet/org.apache.catalina.servlets.WebdavServlet/jsp/snp/snoop.jsp
[18:11:38] 403 - 865B - /examples/servlet/default/jsp/snp/snoop.jsp

[18:11:38] Starting: cgi-bin/

[18:27:40] Starting: examples/

[18:44:49] Starting: idp/
[18:45:35] 404 - 776B - /idp/blackandgoldclub
[18:45:35] 404 - 775B - /idp/by-manufacturer
[18:45:36] 404 - 775B - /idp/frommerscobrand
[18:45:36] 404 - 776B - /idp/keypublisher_gui
[18:45:36] 404 - 775B - /idp/memolinkcobrand
[18:45:36] 404 - 770B - /idp/modern_mom
[18:45:36] 404 - 772B - /idp/modern%20mom
[18:45:36] 404 - 779B - /idp/neuf%20giga%20photo
[18:45:37] 404 - 775B - /idp/picture-library
[18:45:37] 404 - 775B - /idp/remos_downloads
[18:45:37] 404 - 776B - /idp/wireless_cobrand
[18:45:37] 404 - 776B - /idp/linkextractorpro
[18:45:40] 404 - 776B - /idp/cuteeditor_files
[18:45:40] 404 - 775B - /idp/www-collector-e
[18:45:40] 404 - 775B - /idp/category_search
[18:45:41] 404 - 776B - /idp/giftcertificates
[18:45:41] 404 - 776B - /idp/remote_connector
[18:45:42] 404 - 775B - /idp/ptshowguideitem
[18:45:43] 404 - 775B - /idp/email-templates
[18:45:43] 404 - 776B - /idp/enter-chat-other
[18:45:43] 404 - 775B - /idp/enter-pornstars
[18:45:43] 404 - 776B - /idp/kendra-wilkinson
[18:45:44] 404 - 775B - /idp/scheduled_tasks
[18:45:45] 404 - 775B - /idp/nextgen-gallery
[18:45:45] 404 - 776B - /idp/samplenewsletter
[18:45:45] 404 - 775B - /idp/webusercontrols
[18:45:45] 404 - 776B - /idp/adwordsresellers
[18:45:45] 404 - 775B - /idp/apache2-default
[18:45:45] 404 - 775B - /idp/authorizefailed
[18:45:46] 404 - 776B - /idp/housokonpozairyo
[18:45:46] 404 - 775B - /idp/human_resources
[18:45:47] 404 - 775B - /idp/keieiconsultant
[18:45:47] 404 - 775B - /idp/postforumthread
[18:45:47] 404 - 776B - /idp/rb_documentation
[18:45:48] 404 - 775B - /idp/weiterempfehlen
[18:45:48] 404 - 775B - /idp/computer-weekly
[18:45:48] 404 - 775B - /idp/optician-online
[18:45:48] 404 - 776B - /idp/pdgcommtemplates
[18:45:48] 404 - 775B - /idp/popcalendar2005
[18:45:49] 404 - 775B - /idp/static_fragment
[18:45:50] 404 - 776B - /idp/signatureuploads
[18:45:50] 404 - 775B - /idp/mailattachments
[18:45:51] 404 - 763B - /idp/mmm
[18:45:51] 404 - 775B - /idp/mysitemap_users

```

```

[18:45:51] 404 - 775B - /idp/recommendations
[18:45:52] 404 - 775B - /idp/specialfeatures
[18:45:52] 404 - 775B - /idp/stringresources
[18:45:53] 404 - 775B - /idp/bookmark-button
[18:45:53] 404 - 776B - /idp/checkout_payment
[18:45:53] 404 - 771B - /idp/com_comment
[18:45:54] 404 - 775B - /idp/email_addresses
[18:45:54] 404 - 776B - /idp/installation_old
[18:45:56] 404 - 775B - /idp/store_templates
[18:45:57] 404 - 775B - /idp/aries-horoscope
[18:45:57] 404 - 776B - /idp/cancer-horoscope
[18:45:57] 404 - 776B - /idp/gemini-horoscope
[18:45:57] 404 - 775B - /idp/libra-horoscope
[18:45:57] 404 - 776B - /idp/pisces-horoscope
[18:45:57] 404 - 776B - /idp/taurus-horoscope
[18:45:57] 404 - 775B - /idp/ordermanagement
[18:45:57] 404 - 775B - /idp/sectioncontrols
[18:45:59] 404 - 776B - /idp/checkout_process
[18:45:59] 404 - 776B - /idp/checkout_success
[18:45:59] 404 - 775B - /idp/constantcontact
[18:45:59] 404 - 776B - /idp/customer-designs
[18:45:59] 404 - 775B - /idp/customersupport
[18:45:59] 404 - 776B - /idp/display_includes
[18:46:00] 404 - 775B - /idp/global_includes
[18:46:00] 404 - 775B - /idp/customer-images
[18:46:00] 404 - 775B - /idp/isreporting-bin
[18:46:01] 404 - 771B - /idp/members_img
[18:46:01] 404 - 775B - /idp/rheinland-pfalz
[18:46:01] 404 - 775B - /idp/newsletteradmin
[18:46:01] 404 - 775B - /idp/partnerprogramm
[18:46:01] 404 - 776B - /idp/petites-annonces
[18:46:02] 404 - 776B - /idp/prodemailhandler
[18:46:02] 404 - 775B - /idp/product_options
[18:46:02] 404 - 775B - /idp/productscompare
[18:46:02] 404 - 775B - /idp/projectadjuntos
[18:46:02] 404 - 775B - /idp/rewards-program
[18:46:02] 404 - 775B - /idp/resource_center
[18:46:02] 404 - 775B - /idp/secure-shopping
[18:46:02] 404 - 776B - /idp/smarteditscripts
[18:46:03] 404 - 775B - /idp/frankfurt-lions
[18:46:03] 404 - 776B - /idp/translate_static
[18:46:04] 404 - 775B - /idp/brukerdiskusjon
[18:46:04] 404 - 775B - /idp/yasitemap_users
[18:46:04] 404 - 772B - /idp/cmsecommerce
[18:46:04] 404 - 776B - /idp/web%20references
[18:46:05] 404 - 775B - /idp/badseocomponent
[18:46:06] 404 - 776B - /idp/project_includes
[18:46:06] 404 - 773B - /idp/com_jcomments
[18:46:06] 404 - 776B - /idp/com_registration
[18:46:06] 404 - 775B - /idp/contact_us_form
[18:46:07] 404 - 776B - /idp/email_disclaimer
[18:46:07] 404 - 776B - /idp/enabling_cookies
[18:46:08] 404 - 775B - /idp/horses-for-sale
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[18:46:11] 404 - 776B - /idp/sitemapgenerator
[18:46:12] 404 - 775B - /idp/user2userpoints
[18:46:12] 404 - 775B - /idp/webapp_template

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[18:46:12] 404 - 776B - /idp/wp-content-cache
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[18:46:17] 404 - 775B - /idp/email-marketing
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[19:04:39] 404 - 775B - /idp/time-management
[19:04:39] 404 - 775B - /idp/time_date-print
[19:04:39] 404 - 775B - /idp/tiny_mce_config
[19:04:40] 404 - 775B - /idp/tipps-und-infos
[19:04:41] 404 - 768B - /idp/tmmember
[19:04:41] 404 - 769B - /idp/tmmember0
[19:04:41] 404 - 769B - /idp/tmmember1
[19:04:41] 404 - 769B - /idp/tmmember2
[19:04:41] 404 - 772B - /idp/tmmemberxml2
[19:04:41] 404 - 772B - /idp/tmmessagexml
[19:04:42] 404 - 775B - /idp/tools-resources
[19:04:42] 404 - 776B - /idp/tools-generatelw
[19:04:42] 404 - 775B - /idp/tools_downloads
[19:04:42] 404 - 776B - /idp/top-rated-points
[19:05:45] 404 - 776B - /idp/AHAHCOrderGuides
[19:05:46] 404 - 776B - /idp/AbundanceForLife
[19:05:47] 404 - 775B - /idp/ActinicShipping
[19:05:48] 404 - 775B - /idp/AddingLocations

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[19:05:48] 404 - 775B - /idp/AddressBookView
[19:05:48] 404 - 775B - /idp/AdminCodeChoose
[19:05:49] 404 - 775B - /idp/AfcFormWidgetJS
[19:05:49] 404 - 776B - /idp/AfcMyInformation
[19:05:49] 404 - 775B - /idp/AffiliateSystem
[19:05:49] 404 - 775B - /idp/AfoMessageBoard
[19:05:49] 404 - 775B - /idp/AfoSiteAnalysis
[19:05:51] 404 - 775B - /idp/AnalagAnalytics
[19:05:51] 404 - 776B - /idp/App_UserControls
[19:05:52] 404 - 775B - /idp/ApplicationForm
[19:05:52] 404 - 776B - /idp/ApplicationFiles
[19:05:55] 404 - 776B - /idp/Bachelors_degree
[19:05:56] 404 - 775B - /idp/BannersLinksTXT
[19:05:56] 404 - 775B - /idp/BeachManagement
[19:05:57] 404 - 775B - /idp/BidderListDutch
[19:05:57] 404 - 776B - /idp/BoardofDirectors
[19:05:58] 404 - 776B - /idp/BrowseStylebooks
[19:05:59] 404 - 776B - /idp/BuscadorEsquelas
[19:06:00] 404 - 775B - /idp/COBilling-Start
[19:06:01] 404 - 776B - /idp/COShipping-Start
[19:06:01] 404 - 775B - /idp/COSummary-Start
[19:06:01] 404 - 776B - /idp/COSummary-Submit
[19:06:02] 404 - 775B - /idp/CalendarControl
[19:06:02] 404 - 775B - /idp/CandidateDetail
[19:06:02] 404 - 776B - /idp/CareerManagement
[19:06:03] 404 - 775B - /idp/ChangeEmailView
[19:06:04] 404 - 775B - /idp/ClassifiedClick
[19:06:04] 404 - 777B - /idp/ClearwaterSellers
[19:06:05] 404 - 771B - /idp/CommMembers
[19:06:05] 404 - 771B - /idp/CommentForm
[19:06:05] 404 - 772B - /idp/CommonSystem
[19:06:05] 404 - 775B - /idp/CommunityCenter
[19:06:06] 404 - 775B - /idp/CompanyLogoShow
[19:06:06] 404 - 775B - /idp/CompanyTemplate
[19:06:06] 404 - 776B - /idp/Computer-Insider
[19:06:06] 404 - 777B - /idp/ConfirmEnrollment
[19:06:07] 404 - 775B - /idp/Content_by_Mail
[19:06:07] 404 - 775B - /idp/Corficolombiana
[19:06:07] 404 - 776B - /idp/CreateOfficeItem
[19:06:08] 404 - 776B - /idp/CustomerSpecials
[19:06:08] 404 - 775B - /idp/Cutesoft_Client
[19:06:10] 404 - 775B - /idp/DWelle_WSSearch
[19:06:10] 404 - 775B - /idp/DataFeedCoupons
[19:06:10] 404 - 776B - /idp/DataSubscription
[19:06:11] 404 - 776B - /idp/Dealer-Central-s
[19:06:11] 404 - 776B - /idp/DeleteAttachment
[19:06:11] 404 - 775B - /idp/DesignSolutions
[19:06:12] 404 - 775B - /idp/Digital-Cameras
[19:06:12] 404 - 775B - /idp/DocumentLibrary
[19:06:13] 404 - 775B - /idp/DonostiaKultura
[19:06:13] 404 - 775B - /idp/DonostiaSasoian
[19:06:13] 404 - 775B - /idp/Download-Center
[19:06:15] 404 - 776B - /idp/EXCLUSIVE_HOTELS
[19:06:15] 404 - 776B - /idp/Eintrag-loeschen
[19:06:15] 404 - 776B - /idp/EmailAttachments
[19:06:15] 404 - 775B - /idp/EmailFraudWatch
[19:06:16] 404 - 775B - /idp/Email_Validator
[19:06:16] 404 - 776B - /idp/EmployeeHandbook
[19:06:16] 404 - 776B - /idp/EnglishSurmanset
[19:06:16] 404 - 775B - /idp/EnrollmentStep5
[19:06:16] 404 - 775B - /idp/EnrollmentStep4
[19:06:16] 404 - 775B - /idp/EnrollmentStep6
[19:06:16] 404 - 775B - /idp/EnrollmentStep7
[19:06:16] 404 - 775B - /idp/EnrollmentStep8
[19:06:16] 404 - 776B - /idp/EnterpriseClient
[19:06:17] 404 - 776B - /idp/Entrepreneurship

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[19:06:17] 404 - 776B - /idp/EroticLounge2006
[19:06:18] 404 - 776B - /idp/Estacionamientos
[19:06:18] 404 - 776B - /idp/Expectant-Father
[19:06:18] 404 - 775B - /idp/ExploreSouthern
[19:07:07] 404 - 775B - /idp/SalesMonitoring
[19:07:07] 404 - 775B - /idp/Salud-y-Belleza
[19:07:07] 404 - 775B - /idp/SarasotaSellers
[19:07:07] 404 - 775B - /idp/Scheduled_Tasks
[19:07:08] 404 - 776B - /idp/Scripts_NewGuest
[19:07:08] 404 - 775B - /idp/SearchBoxAction
[19:07:08] 404 - 775B - /idp/See-more-images
[19:07:09] 404 - 775B - /idp/SelectJobBounty
[19:07:09] 404 - 775B - /idp/SelectJobModify
[19:07:09] 404 - 775B - /idp/SessionCountTTA
[19:07:09] 404 - 775B - /idp/SessionCountIOS
[19:07:09] 404 - 775B - /idp/SessionCount_BD
[19:07:09] 404 - 775B - /idp/SetSeminarDates
[19:07:10] 404 - 775B - /idp/ShippingMethods
[19:07:10] 404 - 776B - /idp/ShoppingCartView
[19:07:10] 404 - 775B - /idp/ShortSaleSeller
[19:07:10] 404 - 775B - /idp/ShowDescription
[19:07:11] 404 - 775B - /idp/SiteInformation
[19:07:11] 404 - 775B - /idp/SiteMaintenance
[19:07:11] 404 - 776B - /idp/SiteMapGenerator
[19:07:11] 404 - 775B - /idp/SlideShow_files
[19:07:12] 404 - 776B - /idp/SocialNetworking
[19:07:12] 404 - 775B - /idp/Society-Culture
[19:07:12] 404 - 775B - /idp/SomeOtherFolder
[19:07:13] 404 - 775B - /idp/Stellenanzeigen
[19:07:14] 404 - 775B - /idp/SubjectFounders
[19:07:14] 404 - 776B - /idp/Submission_Forms
[19:07:15] 404 - 776B - /idp/SuzanneGudakunst
[19:07:15] 404 - 775B - /idp/System-Messages
[19:07:17] 404 - 775B - /idp/TeleTeamWorkApS
[19:07:18] 404 - 776B - /idp/TestimonialWrite
[19:07:18] 404 - 775B - /idp/TestimonialView
[19:07:19] 404 - 776B - /idp/TracNotification
[19:07:21] 404 - 775B - /idp/UpdateCandidate
[19:07:22] 404 - 776B - /idp/Useful_Uutilities
[19:07:25] 404 - 775B - /idp/Videosmagazine
[19:07:27] 404 - 683B - /idp/Web-INF

```

Task Completed

9.7 Nmap on the SP

```

$ nmap -sC -sV -sS -p- 192.168.20.50
Starting Nmap 7.98 ( https://nmap.org ) at 2026-04-30 08:02 +0200
Nmap scan report for 192.168.20.50
Host is up (0.00019s latency).
Not shown: 65532 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 8.7 (protocol 2.0)
| ssh-hostkey:
|   256 66:34:83:7d:8b:c3:1f:7d:b6:aa:80:c0:62:46:58:2c (ECDSA)
|_  256 c4:f2:59:50:92:11:c3:a4:10:2c:d1:f3:3e:ae:ee:c1 (ED25519)
80/tcp    open  http     Apache httpd 2.4.62 ((Rocky Linux) OpenSSL/3.5.1)
|_ http-server-header: Apache/2.4.62 (Rocky Linux) OpenSSL/3.5.1
|_ http-title: Did not follow redirect to https://rocky-sp.eval.lab/
443/tcp   open  ssl/http Apache httpd 2.4.62 ((Rocky Linux) OpenSSL/3.5.1)
| ssl-cert: Subject:
|   commonName=localhost.localdomain/organizationName=Unspecified/countryName=US
|   Subject Alternative Name: DNS:localhost.localdomain
|   Not valid before: 2025-12-02T07:05:49

```

```
|_Not valid after: 2026-12-02T07:05:49
|_http-server-header: Apache/2.4.62 (Rocky Linux) OpenSSL/3.5.1
|_tls-alpn:
|_http/1.1
|_ssl-date: TLS randomness does not represent time
|_http-methods:
|_Potentially risky methods: TRACE
|_http-title: HTTP Server Test Page powered by: Rocky Linux
MAC Address: BC:24:11:65:33:95 (Proxmox Server Solutions GmbH)
```

Service detection performed. Please report any incorrect results at <https://nmap.org/submit/>

•
Nmap done: 1 IP address (1 host up) scanned in 16.70 seconds

Almond

**THANK
YOU**

Almond

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TVA FR24 841 059 553

