REGISTER SP TO A TEST FEDERATION
&
CONFIGURE SHIBBOLETH DISCOVERY SERVICE

Step 1:
contact Anass in private chat to be added in the test federation.

Step 2:
Check that your SP is visible in the test federation:
https://vm–000069.vm.geant.org/rr3/signedmetadata/federation/Geant_Workshop/metadata.xml

Step 3:
Configure your SP to trust the metadata from the test federation:

```
# vim /etc/shibboleth/shibboleth2.xml

    <MetadataProvider type="XML"
      url="https://vm–
000069.vm.geant.org/rr3/signedmetadata/federation/Geant_Workshop/metadata.xml"
      backingFilePath="test–metadata.xml" reloadInterval="7200">
      <MetadataFilter type="Signature" certificate="training–test–
federation–cert.crt"/>
</MetadataProvider>
```

Step 4:
To allow the SP to verify the signature of the xml metadata, and ensure that this metadata file is provided by the federation operator, you need to add manually the certificate used to sign the metadata:

```
# vim /etc/shibboleth/training–test–federation–cert.crt
```

```
-----BEGIN CERTIFICATE-----
MIIFizCCA3OgAwIBAgIJALey6jcy9MznMA0GCSqGSIb3DQEBCwUAMFwxCzAJBgNV
BAYTAk1ZMQ0wCwYDVQQHDARDaXR5MQ0wCwYDVQQKDAROUkVOMRMwEQYDVQQLDApG
ZWRlcmF0aW9uMRowGAYDVQQDDBF3d3cuZmVkZXJhdGlvbi5teTAeFw0yMTA0MDcx
NzAxMDRaFw0zMTA0MDUxNzAxMDRaMFwxCzAJBgNVBAYTAk1ZMQ0wCwYDVQQHDARD
aXR5MQ0wCwYDVQQKDAROUkVOMRMwEQYDVQQLDApGZWRlcmF0aW9uMRowGAYDVQQD
DBF3d3cuZmVkZXJhdGlvbi5teTCCAiIwDQYJKoZIhvcNAQEBBQADggIPADCCAgoC
ggIBAMOXL87SdapCEx69gPIS8HZLHrSz2LEyfCtgFsu4WOw6FavXkBvcmS7p/Jtm
trJ/OpBmtJFB7NI3uiVihVOkNqbFvVjL4n765rVAik61IaUaWJNDY8Q/ht4nDzsU
fNMOYxzOduMwA0HaL1tvDPe1JnHnbqzKP7jsiMxLCu/VXWTfQQb75ykLrgayzbRu
89NSluEnZf90fEbefa/hWcEFrLcXySm/3Owwo+9M7zz/CWUuynWqvoNxbHb0dplk
IwwKmzE++cM/0R2O+/Aqod+wK41xKTkd1xYU/++vM2An7PzxpwLDB77LYjOpBVci
JMy/mNPkOc5zxcNZpcGXt1Ahk8kx6Xdbu24J8kihcixOY1FNxTafJ80q88iUXmrE
xn52WQ2miVBQvoMef5oPKfO1wBISpT0bS9EuXps0OYcsXCfzS952iuWot5ZhXlwP
E2SkDDkXq1u+N0Tylxc6yE8z7A45b8u/ZeZ9r3vJdTH1NzZ8cwQmQigXM2SujtuE
fP22Yy3t63sidPcg3OvC1kUjDBjfRplwoK3EmPeOIiPPtyMXQL2L/Ayd3NADdWcH
s3RH1gO+4gJ9CiiB6u/VXpPi51jIvfHU1yZXKhVBXePLhqaSnBqUFMNANRsWOrgT
XYkUwfrCkoXmvEE/V5X/HBpS3QunE50QxJvQi0zFRAAvNy9tAgMBAAGjUDBOMB0G
A1UdDgQWBBRbo1eRZ3l0J6zyhAdSXj8nyt5s6DAfBgNVHSMEGDAWgBRbo1eRZ3l0
J6zyhAdSXj8nyt5s6DAMBgNVHRMEBTADAQH/MA0GCSqGSIb3DQEBCwUAA4ICAQB1
fCy5J7b9qRY4a4ZjJHniw5rx79/f9fAUX25t7QP+Z5RjGcn/DT0+GVp16Z9pPK+8
9oc4e46zW6v7CFQ7yW5BuJYRmA8hFgVxhGaOvS0WLYTJzpn1EyHob1d8jBFDUukB
FazSNGsdqATKw19AnTa4pIWf2jUNBhgLG8+qgXk6PZ5MD5q2LLUbWIhpDM3yNpaU
Iu8X7cqAZJ9gW/ozbDDOAnQwXfIm6MRdfT3CJ7EdupG6mSB+K3UojQgL+gS6nBuY
LhSgWjl8VZ0cij7SY86L+/YmWNjfsTYQZlRjNMGhqtWley+F9SvrLUueuk9r2wD0
kFgjNESkz1tkyWA2MFYSTxJWEsxCmJ29gTaZLbewe44vMahEcTo/wSxmjJ30A7bv
zb/gcSBLJhwM7w67hqLJki8g9rJiV0OpggHOjf5qBIFnMrNBb2FDu0MyRvc2JFL7
eITTUzWpEzBp1lME6FfWTNHWEjqvQ15eLoNFubp6Ydzbjo+Zz81CmX6XObZ7UtHB
24S4x7++RLxj7KlDkzVb8rELwsiSI6xtZeGbxZnpkH5VpUvWhYgS1VXX2/SI1/XT
Cv7ry5A/WOiAptKBR+E7lnNYd+m5WSYMiDkCOV5luhFsbZi86HkQBZ0dlf1SAuQF
wWTlbUcrboFUPTsSdDgqhb2SYp2vKBKCabtYdk+a+w==
-----END CERTIFICATE-----
```

Step 5:

Now that your SP is configured to trust the test federation, it will trust all IdPs registered in this federation. You need to configure the SP to show the list of IdPs in this Federation. That's why you need to configure a discovery service.

To install a discovery service, please follow the steps describes here for CentOS :

sudo su –

yum install shibboleth-embedded-ds

Update "shibboleth2.xml" file to the new Discovery Service page, and use the number of your VM hostname.

```
# vim /etc/shibboleth/shibboleth2.xml
```

```
<SSO discoveryProtocol="SAMLDS" discoveryURL="https://vm-
0000XX.vm.geant.org/shibboleth-ds/index.html">
   SAML2
</SSO>
```

Step 6:

The main configuration file for Shibboleth Embedded Discovery Service is the "idpselect_config.js".
You will need to update it to take into account your sever name, By updating the line "this.returnWhiteList" as following by adding you VM hostname number.

```
# vim /etc/shibboleth-ds/idpselect_config.js
```

```
this.returnWhiteList = [ "^https:\/\/vm-
0000XX\.vm\.geant\.org\/Shibboleth\.sso\/Login.*$" ];
```

Step 7:
Restart Shibboleth service and apache

```
# systemctl restart shibd.service
# systemctl restart httpd.service
```

Step 8:

Now try to access your service, https://vm-000XX.vm.geant.org/secure

Instead of being redirected to your IdP, the SP should redirect you to the discovery service which should allow you to choose your IdP or another one.
You can test login with ANASS IdP (user1/password).

Example of output:
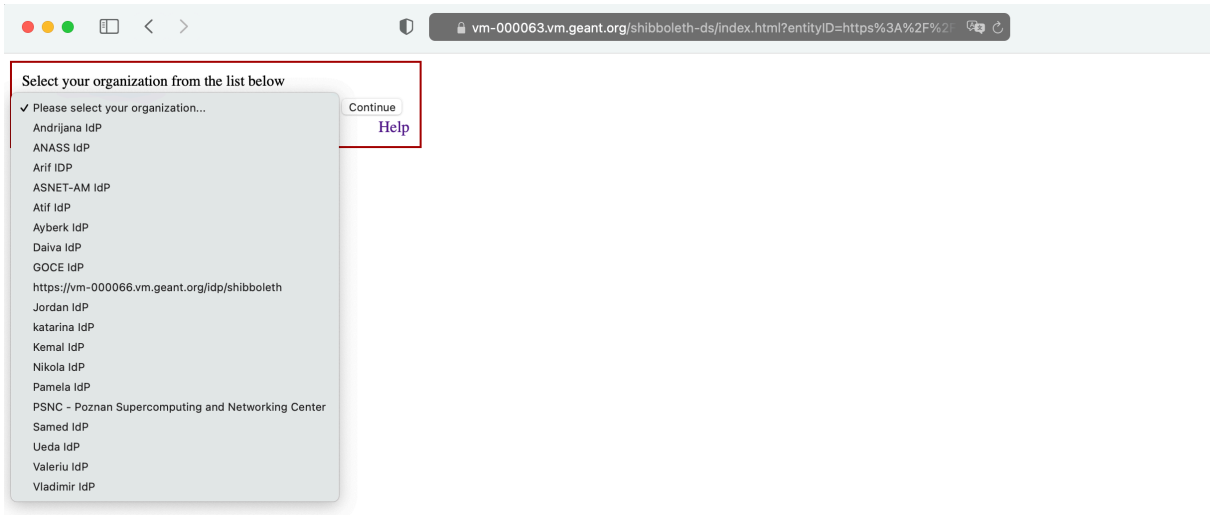
If you want to limit the number of IdPs visible, or use some advanced options, you can refer to the documentation :
https://github.com/ConsortiumGARR/idem-tutorials/blob/master/idem-fedops/HOWTO-Shibboleth/Embedded%20Discovery%20Service/Ubuntu/HOWTO%20Install%20and%20Configure%20a%20Shibboleth%20Embedded%20Discovery%20Service.md

Congratulation you went over all the steps for the IdP/SP/DS installation!!!!!!!!!!