OWSM Installation-Configuration on OAM 12.2.1.4

Version 1.0

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1 Environment links

PreProd environment: Jump Server:172.16.193.55

OAM1 Server:IAM-STG-1003.pap.bka.bund.de or 10.242.107.166

Links:

WLS Console: https://iam.stage.iaas.psp.extrapol.de/console/login/LoginForm.jsp

EM Console: https://iam.stage.iaas.psp.extrapol.de/em

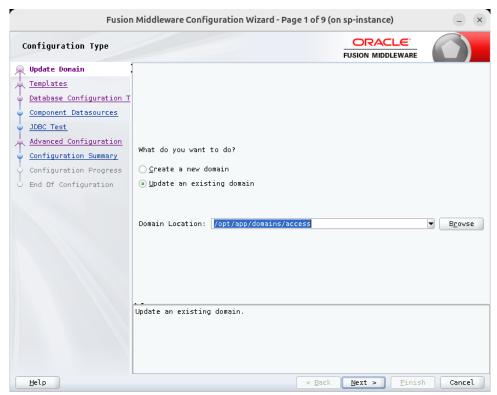
OAM Console: https://iam.stage.iaas.psp.extrapol.de/oamconsole/faces/login.jspx
ODSM Console: https://access.extest.bka.extrapol.de:7400/odsm/faces/odsm.jspx

2 OWSM installation on OAM

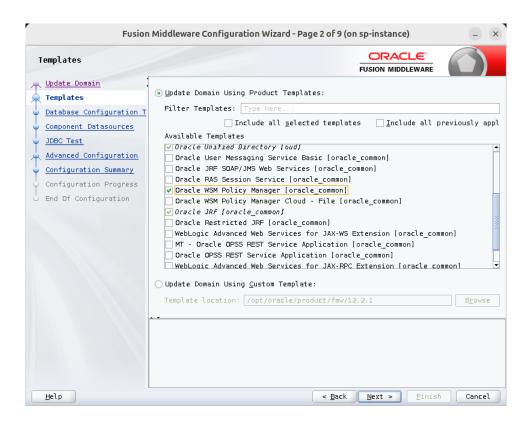
OAM servers is by default not installed with Oracle WSM Policy Manager. In order to leverage OWSM policies WebLogic schema needs to be extended with "Oracle WSM Policy Manager" feature.

2.1 Domain extension

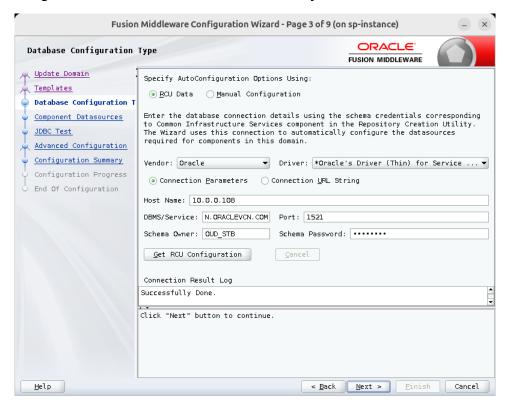
- 1. Change directory to \$FMW_HOME/oracle_common/common/bin (For example: /opt/oracle/product/fmw/12.2.1/oracle_common/common/bin)
- 2. Start script config.sh
- 3. On the **Configuration Type** window select "Update an existing domain". And select "Domain Location" where we want to install OWSM.



4. On the **Templates** window select "Oracle WSM Policy Manager"

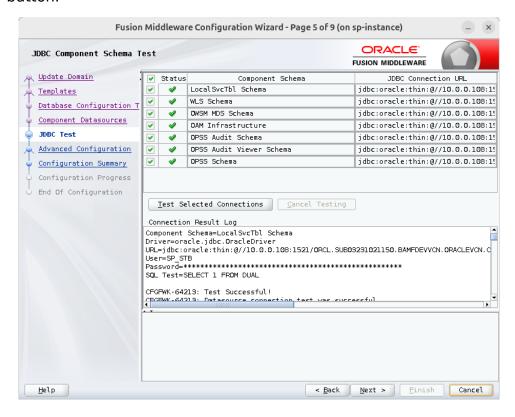


5. On the **Database Configuration Type** window select "Get RCU Configuration". When result is Successfully Done. Click on the Next button.



6. On the **Component Datasources** window click on the Next button.

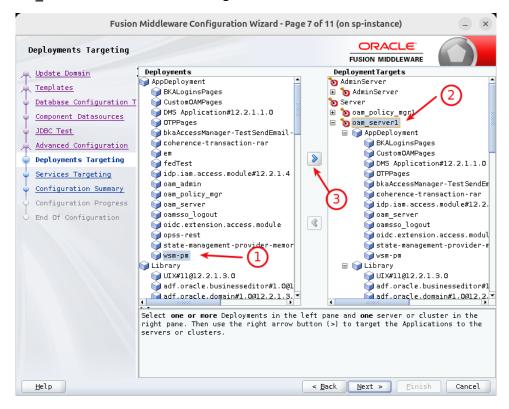
7. On the J**DBC Test** window cheek if all went fine and then click Next button.



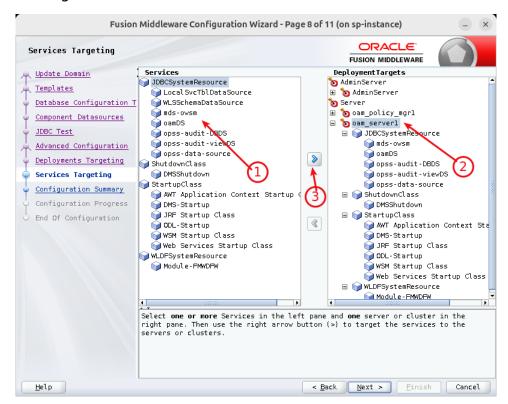
8. On **Advanced Configuration** window select **Deployments and Services** click on Next button.



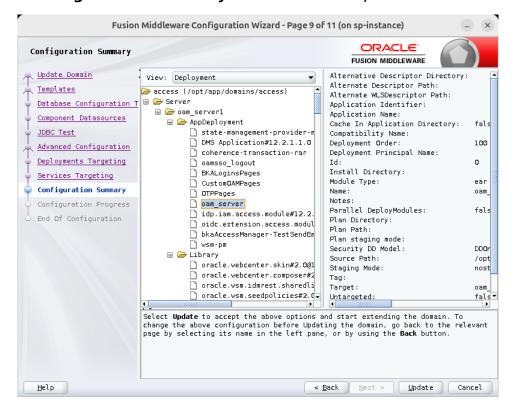
 On **Deployments Targeting** window select **wsp-pm** from Deployments column and in the Deployments Targets select oam_server1 or oam cluster. Click on the assign arrow. Click on the Next button



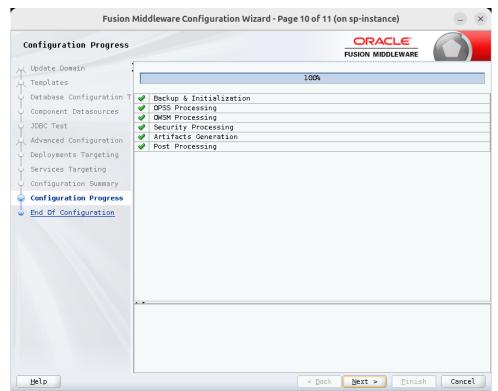
10.On **Services Targeting** window select mds-owsm in the Services column. In the Deployment Targets select oma_server1 or oam_cluster. Click on the assign arrow. Click on the Next button.



11.On **Configuration Summary** window click on Update button.



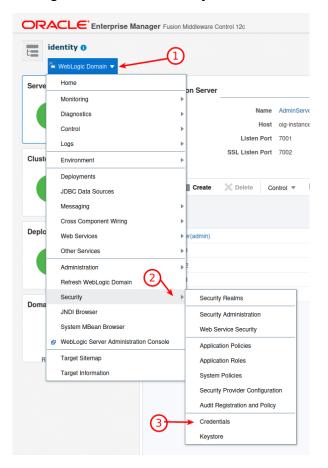
12. On Configuration Process click Next button



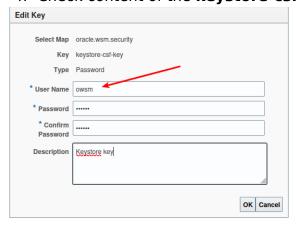
13.On **End Of Configuration** window click on the **Finish** button.

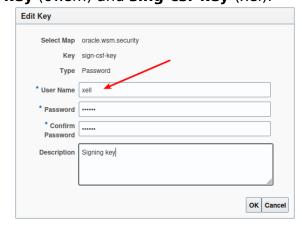


- 2.2 Extract OIG certificate used by UMS Server
 - 1. Login as WebLogic Administrator to **OIG** enterprise manager (/em)
 - 2. Click on the WebLogic Domain →Security → Credentials

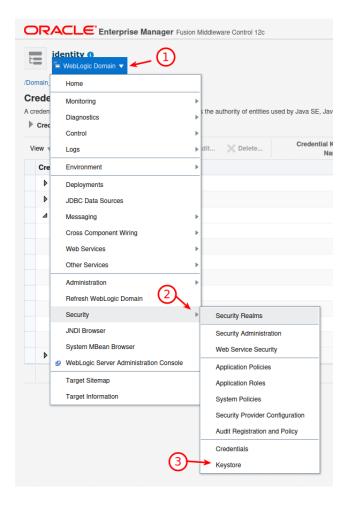


- 3. Expand map oracler.wsm.security
- 4. Check content of the **keystore-csf-key** (owsm) and **sing-csf-key** (xel).

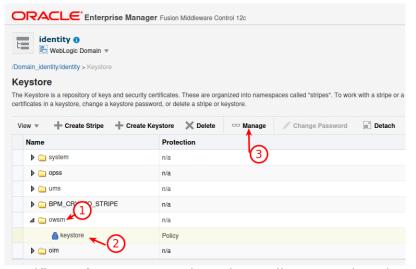




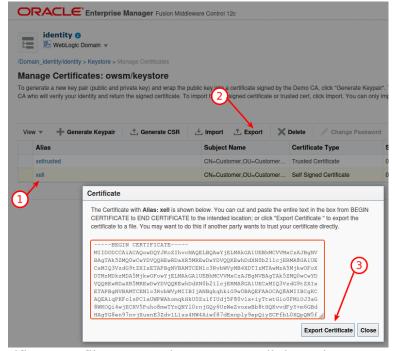
- 5. User Name from **keystore-csf-key** represend stripe name and User Name from **sign-csf-key** represent alias in the keystore.
- 6. Click on the WebLogic Domain → Security → Keystore



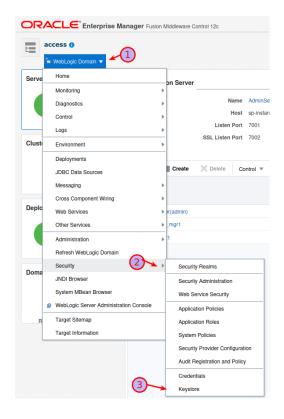
7. Expand owsm, select keystore and click on the Manage button



8. Export certificate from owsm stripe where alias name is xel



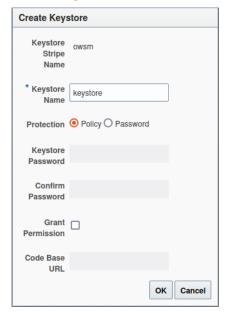
- 9. Export certificate to file or copy it as text to clipboard.
- 2.3 Import certificate used by UMS server to OAM keystore
 - 1. Login as WebLogic Administrator to **OAM** enterprise manager (/em)
 - 2. Click on the WebLogic Domain → Security → Keystore



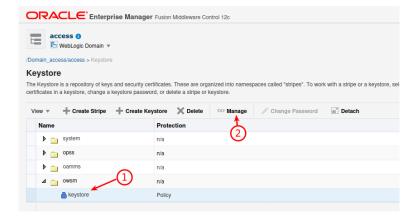
3. Create Stripe with name **owsm** (Click on the **+Create Stripe** button)



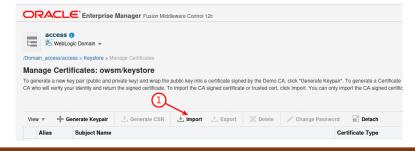
4. Create a keystore with name **keystore** (Click on the + **Create Keystore**)



5. Select keystore under owsm stripe and click on the Manage



6. Import certificate from OIG server



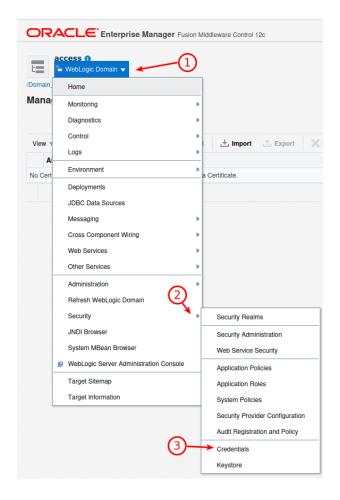
 OIG certificate can be imported from file or as text in PEM format Cerificate Type set to **Trusted Certificate**.

Alias name must be orakey

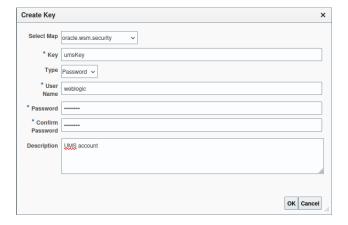


2.4 Create CSF key under oracler.wsm.security

- 1. Login as WebLogic Administrator to **OAM** enterprise manager (/em)
- 2. Click on the WebLogic Domain → Security → Keystore



- 3. Expand map **oracle.wsm.security**.
- 4. Click on the **+Create Key**. Create Key as **usmKey**. In the User Name nad password provide weblogic username and password.



NOTE: umsKey from map OAM_CONFIG can be removed, it is not used anymore

3 Redeploy OAM OTPAuthenticationPlugin

OAM plugin OTPAuthenticationPlugin needs to be redeployed on OAM server. Location of this plugin is:

/deployment/oam/0101 authenticationPlugin/lib/OTPAuthenticationPlugin.jar

For more information how to redeploy OAM plugins check oracle documentation:

https://docs.oracle.com/cd/E52734_01/oam/AIAAG/GUID-A22A0F9A-618A-4183-ADD0-2E98C84458FA.htm#AIAAG8130

NOTE: OAM Plugin can't be redeployed once is used by OAM authentication module. OAM Plugin must be removed from all authentication modules and then can be redeployed.

3.1 Configuration OTPAuthenticationPlugin

In the latest version of the OTPAuthenticationPlugin is a new plugin parameter **UMS_IS_WSS**. Defaule value of this parameter is **false**, in this case basic authentication is used for authentication with UMS service on OIG.

When **UMS_IS_WSS** is set to the **true** OWSM client policy "oracle/wss11_username_token_with_message_protection_client_policy" is used when sending email via UMS service on OIG.