**NFMP and SDN setup Installation**

**Note:** commands to be run in terminal are provided in ***Italic and Bold***

**Aux Installation:**

Once an aux stack creation is complete, wait for some 25min before doing any configs.

Try opening the aux publicip:1 in vnc.

If you are unable to open aux in vnc after 30min then try manual installation of vnc by logging it in putty and run the command

***/sam/thirdparty/tools/VNC/install-vnc.sh***

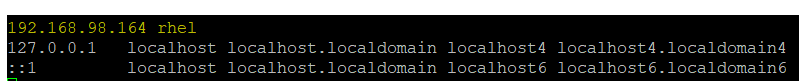
* Open 135.250.37.37 on the browser and download the below rpm's

1. nsp-nfmp-jre-SAM\_R\_r\_revision-Pp.x86\_64.rpm
2. vertica- V . w . x - y .x86\_64.RHEL6.rpm
3. nsp-nfmp-auxdb-SAM\_R\_r\_revision-Pp.x86\_64.rpm
4. VerticaSw\_PreInstall.sh

* Open terminal and give the command ***hostname***

Find the host name and add the host name and private ip of the aux inside ***vi /etc/hosts***

Like ***<private ip> <hostname>***



* Navigate to folder where rpms are Downloaded from terminal

Run ***chmod +x VerticaSw\_PreInstall.sh***

***./VerticaSw\_PreInstall.sh***

You will be prompted for samauxdb pwd. Enter a password.-->(NokiaNsp1)this prompt comes only for the first time, otherwise takes the previously password.

  ( If any process running Kill -9)

System asks for reboot. Enter following: y

Even if not asked Please Reboot by running ***init6***

Wait for some 3min for the reboot to be done.

Once reboot is done, a new samauxdb user is created.

* Once again navigate to folder where rpms are Downloaded from terminal

Install all the 3rpm’s by running

***yum install -y <rpm1> <rpm2> <rpm3>***

Ex: yum install -y nsp-nfmp-jre-SAM\_R\_r\_revision-Pp.x86\_64.rpm vertica-V.w.x-y.x86\_64.RHEL6.rpm nsp-nfmp-auxdb-SAM\_R\_r\_revision-Pp.x86\_64.rpm

* Once rpm’s are installed

Navigate to

***cd /opt/nsp/nfmp/auxdb/install/config***

and copy install.config.default as install.config by running

***cp install.config.default install.config***

Edit the install.config

***vi install.config***

Change aux Private ip in hosts as ***hosts=<privateip>***

Change aux Private ip in export\_hosts as ***export\_hosts=<privateip[privateip]>***

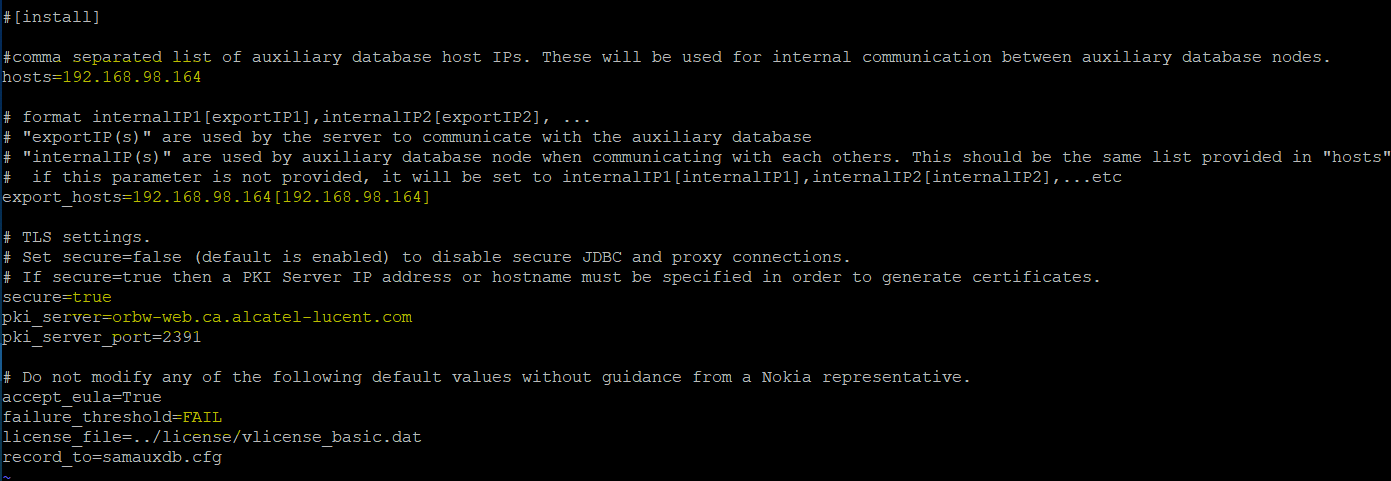
Change ***secure=true***

Change ***pki\_server=orbw-web.ca.alcatel-lucent.com***

Change ***failure\_threshold=FAIL***

Save and exit by Esc ***:wq!***

For reference:



* Install aux by running

***/opt/nsp/nfmp/auxdb/install/bin/auxdbAdmin.sh install***

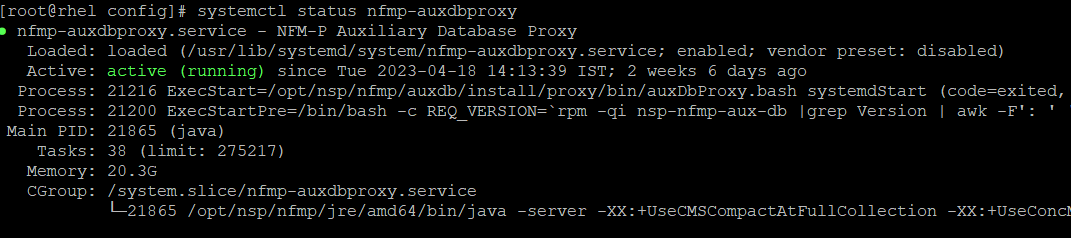
* After install is completed run

***systemctl status nfmp-auxdbproxy***

if the status is dead or not running the execute the cmd

***systemctl start nfmp-auxdbproxy***

and check the status again which should be running



* to check the aux status, run

***cd /opt/nsp/nfmp/auxdb/install/bin/***

***./auxdbAdmin.sh status***  and the state should be up.

**Configuring NFMP with Aux and SDN:**

After NFMP stack is create complete wait for 45min before doing any configs.

Initially once stack creation is completed fully the NFMP will be in running state only.

* The NFMP should be stopped before configuring the aux with it

Open the nfmp in VNC(recommended) or putty, Run the following in the terminal

***su – nsp***

***cd nms/bin***

***./nmsserver.bash stop***

***exit***

Sometimes It throws some error like :

-bash-4.2$ ./nmsserver.bash stop

IP Address is not configured properly. Please check opt/nsp/nms/log/server/server\_console.log for details.

Then:

cd /opt/nsp/nms/config

Vi nms-server.xml

Replace 135.250.194.27(any other public ip) with the NFMP public IP

If it doesn’t work delete and create a new NFMP stack

* Once nfmp is stopped execute

***samconfig -m main***

Once the main is opened check for the details by giving

***show-detail***

Please go the detail of the main once before configure.

For adding aux in nfmp

<main> ***configure***

<main configure> ***auxdb***

<main configure auxdb> ***enabled***

<main configure auxdb> ***ip-list <aux\_publicip>***

<main configure auxdb> ***redundancy-level 0***

<main configure auxdb> ***back***

If it is an NFMP setup skip the below steps in “[]“

“[For SDN setup add the SDN cluster A ip in main like below

<main configure>***nspos***

<main configure nspos>***ip-list*** ***<SDN public ip>***

<main configure nspos>***back***

]”

<main configure> ***back***

<main> ***apply***

<main> ***exit***

* After Main configs are applied, open nms-server.xml file and change configs.

To open nms-server.xml file, execute

***vi /opt/nsp/nfmp/server/nms/config/nms-server.xml***

Edit this and add the below to samauxdb section(to search samauxdb hit ***/samauxdb***)

***AAkeysafe="0"***

***sysKeysafe="0"***

***oamTestResultEnabled="true"***

Edit under systemMode section(***/systemMode***)

Change ***statsPurgeDisabled="true"***

Edit under samsession section(***/samsession***)

Change ***max5620SAMAdminSession="100"***

Save by ***Esc :wq!***

* After all configs are done start the NFMP by

***su - nsp***

***cd nms/bin/***

***./nmsserver.bash start***

* Wait for 30 to 40 min for NFMP to be up. Check the status by

***./nmsserver.bash nms\_status***

* Open a new SAM VNC terminal :

***cd /opt/nsp/nfmp/server/nms/bin/***

***./logviewerui.bash***

Open Ems Server Log

UI will open and make sure the logs are continuous. (shouldn't be in yellow colour)

Note: For NFMP setup installation skip this section and proceed to analytics installation

**Configuring SDN with Aux and NFMP:**

Once SDN stack is create complete or create failed but the pods are running in cluster A, proceed with the configuring Aux and NFMP with SDN.

You can’t open SDN in vnc since vnc is not installed and it is not needed. If need install vnc manually.

Use putty to access terminal

* Open cluster A in putty and execute

***kubectl get pods -A***

and check all pods are in running or completed state.

***Kubectl delete pod <podname>***to restart the pod

* Open deployer in putty

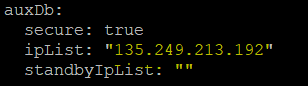
Navigate to ***cd /opt/build/NSP…/NSP…/config***

[Ex: cd /opt/build/NSP-CN-DEP-23.4.0-rel.4964/NSP-CN-23.4.0-rel.4932/config/]

***vi nsp-config.yml***

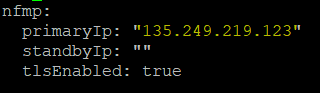
Go to auxdb section(***/auxDb***)

Edit (***i***) ipList and give aux public ip there



Go to nfmp section(***/nfmp***)

Edit Primary ip with nfmp ip



Save and close using ***Esc :wq!***

* After saving

Navigate to ***cd /opt/build/NSP…/NSP…/bin***

***./nsp-config.bash --config --deploy***

* If SDN deploy is done but you got any error, try running deploy command again.
* If SDN deploy is done without any error, open cluster A and check for pods.

To check all available PODs:

***kubectl get pods***

To check the auxdb- agent:

***kubectl get pods | grep aux***

* Check for auxdb agent pod in the pod list, if it is not there or not running then

***./nsp-config.bash --undeploy --clean***

***./nsp-config.bash --config –deploy***

**Analytics Installation:**

Once an analytics stack creation is complete, wait for some 25min before doing any configs.

Open Analytics primary IP:1 in vnc

Open 135.250.37.37 in browser inside vnc

Go to the path

Parent directory->Release->Main->Latest release(go the folder, which rel you need)

Download 3files

1. nsp-analytics-server

2. nspos-jre-

3. nspos-tomcat-

Open new terminal

Give command

***cd /root/Downloads/***

***ll***

***yum install -y <rpm1> <rpm2> <rpm3>*** (copy paste all three file name with space in between)

After installed

***su - nsp***

***cd /opt/nsp/analytics/bin/***

***./AnalyticsAdmin.sh updateConfig***

***YES***

Server host name : <***analytics public IP***>

Host name for internal ntwk : <***analytics public IP***>

true

true

Primary postgre : <***nfmp public IP***> (if it is SDN setup give <***SDN vIP***>)

Primary Oracle host : <***nfmp public IP>***

PKI : ***orbw-web.ca.alcatel-lucent.com***

Zookeeper: (<***nfmp public IP>*** (if it is SDN setup give <***SDN public IP>***) : same value there)

Nfmp only : ***true***(***false*** if sdn setup)

***./AnalyticsAdmin.sh install***

Nsp username: ***admin***

Password : ***NokiaNsp1***!

***no***

***/opt/nsp/***

Keystore PWD : ***NokiaNsp1!***

truststore PWD : ***NokiaNsp1***!

After installation is done, check the status by

***./AnalyticsAdmin.sh status***

*For quires, updates, suggestions, changes contact* … **rogith.madheswaran.ext@nokia.com**