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Install PAM Monitoring System

1. Copy the installer files to /apps/iammonitor folder.

[iammonitor@rhldiamms610 iammonitor]$ pwd

/apps/iammonitor

[iammonitor@rhldiamms610 iammonitor]$ ls

apache-tomcat-8.5.46.tar.gz jdk-8u221-linux-x64.tar.gz

[iammonitor@rhldiamms610 iammonitor]$

1. Unzip jdk tar file and delete jdk tar file.

[iammonitor@rhldiamms610 iammonitor]$ tar -xzvf jdk-8u221-linux-x64.tar.gz

[iammonitor@rhldiamms610 iammonitor]$ rm jdk-8u221-linux-x64.tar.gz

1. Unzip tomcat tar file and delete tomcat tar file

[iammonitor@rhldiamms610 iammonitor]$ tar -xzvf apache-tomcat-8.5.46.tar.gz

[iammonitor@rhldiamms610 iammonitor]$ rm apache-tomcat-8.5.46.tar.gz

1. Change tomcat port to 80

[iammonitor@rhldiamms610 conf]$ cd /apps/iammonitor/apache-tomcat-8.5.46/conf

[iammonitor@rhldiamms610 conf]$ vi server.xml

Find the http port section by searching 8080, change 8080 to 80, and save the change.

<Connector port="80" protocol="HTTP/1.1"

connectionTimeout="20000"

redirectPort="8443" />

1. Create config and ipsoft folder under /apps/iammonitor with the following permissions:

drwx------. 2 iammonitor iammonitor 6 Oct 3 11:19 config

drwxr-xr-x. 2 iammonitor iammonitor 6 Oct 3 11:19 ipsoft

Note: the 700 permission is important for config folder where the encrypted API key are stored.

1. Create bin and logs folder under ipsoft:

[accessadm@rhldiamms610 ipsoft]$ pwd

/apps/iammonitor/ipsoft

[accessadm@rhldiamms610 ipsoft]$ ls -l

total 0

drwxr-xr-x. 2 iammonitor iammonitor 6 Oct 3 11:25 bin

drwxr-xr-x. 2 iammonitor iammonitor 6 Oct 3 11:26 logs

cd bin folder, create file generateReport.sh, put these lines in it, and chmod +x generateReport.sh

*#!/bin/bash*

*curl http://localhost/monitoring/admin?command=generatereport*

1. Setup tomcat as service (note, we need sudo during installation only, after then, remove it)

sudo vi /etc/systemd/system/tomcat.service, paste the following in (or scp from dev server):

*# Systemd unit file for tomcat*

*[Unit]*

*Description=Apache Tomcat Web Application Container*

*After=syslog.target network.target*

*[Service]*

*Type=forking*

*Environment=JAVA\_HOME=/apps/iammonitor/jdk1.8.0\_221*

*Environment=CATALINA\_PID=/apps/iammonitor/apache-tomcat-8.5.46/temp/tomcat.pid*

*Environment=CATALINA\_HOME=/apps/iammonitor/apache-tomcat-8.5.46/*

*Environment=CATALINA\_BASE=/apps/iammonitor/apache-tomcat-8.5.46/*

*Environment='CATALINA\_OPTS=-Xms512M -Xmx1024M -server -XX:+UseParallelGC'*

*Environment='JAVA\_OPTS=-Djava.net.preferIPv4Stack=true -DCFG\_FILE=/apps/iammonitor/config/app.cfg'*

*ExecStart=/apps/iammonitor/apache-tomcat-8.5.46/bin/startup.sh*

*ExecStop=/apps/iammonitor/apache-tomcat-8.5.46/bin/shutdown.sh*

*User=root*

*Group=root*

*[Install]*

*WantedBy=multi-user.target*

1. Register and enable tomcat service:

[accessadm@rhldiamms610 iammonitor]$ sudo systemctl daemon-reload

[accessadm@rhldiamms610 iammonitor]$ sudo systemctl start tomcat

[accessadm@rhldiamms610 iammonitor]$ sudo systemctl enable tomcat

Created symlink from /etc/systemd/system/multi-user.target.wants/tomcat.service to /etc/systemd/system/tomcat.service.

1. Setup configuration file:

Create folder /apps/iammonitor/config, and copy app.cfg (part of source) to there. Set the correct value for these entries:

*PasswordSafeHost=pamapi.rccl.com*

*PasswordSafeUser=api\_pam*

*PasswordSafeApiKey={AES}Tq9DBE0RdMzS+QbXrubFYQ==,CNdNIrWdTydQXO2SrSvi4agzzUMPEGz1of46TSWfQ0H9qPFKXZ4AW7aGXnCvT+YLMNDwhT8YKweEszILUFAo+BeALsc8ImYlEDP3lklZ6KNUkzDgcmB4Ws52D0ki8SL8isGFGFR99467g6opNwS1dre4zU9S+frUNdmvBVrMBcB/GHyCLmxfymu/Nvwm1EEO*

*monitoring.isPrimary=Y*

*#or N, for 610 set to Y, for 611, set to N*

*monitoring.HA.peerServer =* [*http://rhlpiamms611.na.rccl.com/monitoring/admin*](http://rhlpiamms611.na.rccl.com/monitoring/admin)

*#The other sever.*

Note, the encrypted API key can be copied from app.cfg for onboarding, or run /apps/pamonboard/script/psrun.sh enc {key\_value} to get the encrypted value.

1. Deploy monitoring.war.

Use mvn install to build the monitoring.war from local environment, and

drop it to /apps/iammonitor/apache-tomcat-8.5.46/webapps, and make sure delete all other apps like ROOT, etc.