Latest AWS notes to create an EC2 Instance

Step 1:

Created CentOs ec2 instance on aws.

Step2: Before to start use this two commands

yum install deltarpm epel-release yum update

Step3: sudo yum install wget

Install wget if it is not supporting.

Step4: Download and Install java

wget --no-cookies --no-check-certificate --header "Cookie: gpw_e24=http%3A%2F %2Fwww.oracle.com%2F; oraclelicense=accept-securebackup-cookie" "http://download.oracle.com/otn-pub/java/jdk/8u141-b15/336fa29ff2bb4ef291e347e091f7f4a7/jdk-8u141-linux-x64.tar.gz"

Step5:

Move java setup into opt folder

Step6: cd /opt/

tar xzf jdk-8u141-linux-x64.tar.gz

Step7:alternatives --install /usr/bin/java java /opt/jdk1.8.0_141/bin/java 2

Step8:

alternatives -- config java

step9: export JAVA_HOME=/opt/jdk1.8.0_141

Step10: export JRE_HOME=/opt/jdk1.8.0_141/jre

Step11: Setup Path export PATH=\$PATH:/opt/jdk1.8.0_141/bin:/opt/jdk1.8.0_141/jre/bin

Tomcat Setup on centos Instance:

Step1: sudo groupadd tomcat

Step2:

sudo useradd -M -s /bin/nologin -g tomcat -d /opt/tomcat tomcat

Step3: wget <a href="http://www-us.apache.org/dist/tomcat/tomcat-8/v8.5.20/bin/apache-10/v8.5.20/bin/apache-10/v8.5.20/bin/apache-10/v8.5.20/bin/apache-10/v8.5.20/bin/apache-10/v8.5.20/bin/apache-10

8.5.20.tar.gz

step4: sudo mkdir /opt/tomcat

Step 5: sudo tar xvf apache-tomcat-8*tar.gz -C /opt/tomcat --strip-components=1

Change to the Tomcat installation path:

cd /opt/tomcat

Give the tomcat group ownership over the entire installation directory:

sudo chgrp -R tomcat /opt/tomcat

Next, give the tomcat group read access to the conf directory and all of its contents, and execute access to the directory itself:

sudo chmod -R g+r conf sudo chmod g+x conf

Then make the tomcat user the owner of the webapps, work, temp, and logs directories:

sudo chown -R tomcat webapps/ work/ temp/ logs/

Now that the proper permissions are set up, let's set up a Systemd unit file.

Step6: Install Systemd Unit File

Because we want to be able to run Tomcat as a service, we will set up a Tomcat Systemd unit file.

Create and open the unit file by running this command:

sudo vi /etc/systemd/system/tomcat.service

Paste in the following script. You may also want to modify the memory allocation settings that are specified in CATALINA_OPTS:

/etc/systemd/system/tomcat.service

Systemd unit file for tomcat

[Unit]

Description=Apache Tomcat Web Application Container

After=syslog.target network.target

OnFailure=unit-status-mail@%n.service

[Service]

Type=forking

Environment=JAVA_HOME=/opt/jdk1.8.0_141/jre

Environment=CATALINA_PID=/opt/tomcat/temp/tomcat.pid

Environment=CATALINA_HOME=/opt/tomcat

Environment=CATALINA_BASE=/opt/tomcat

Environment='CATALINA_OPTS=-Xms256m -Xmx512m -XX:MaxPermSize=128m'

Environment='JAVA_OPTS=-Djava.awt.headless=true -Djava.security.egd=file:/dev/./urandom'

ExecStart=/opt/tomcat/bin/startup.sh

ExecStop=/opt/tomcat/bin/shutdown.sh

User=tomcat

Group=tomcat

[Install]

WantedBy=multi-user.target

Save and exit. This script tells the server to run the Tomcat service as the tomcat user, with the settings specified.

Now reload Systemd to load the Tomcat unit file:

sudo systemctl daemon-reload

Now you can start the Tomcat service with this systemctl command:

sudo systemctl start tomcat

Check that the service successfully started by typing:

sudo systemctl status tomcat

If you want to enable the Tomcat service, so it starts on server boot, run this command:

sudo systemctl enable tomcat

MongoDB installation guide on ec2.

Step1: Please follow this site

https://tecadmin.net/install-mongodb-on-centos-rhel-and-fedora/

Step2:

Start MongoDB without access control.

mongod --port 27017 --dbpath /data/db1

Connect to the instance.

mongo --port 27017

Create the user administrator.

db.createUser(

```
user: "clubShopAdmin",

pwd: "clubshop@123",

roles: [ { role: "userAdminAnyDatabase", db: "admin" } ]
```

Re-start the MongoDB instance with access control.

```
mongod --auth --port 27017 --dbpath /data/db1
```

Connect and authenticate as the user administrator

To authenticate during connection

```
mongo --port 27017 -u "clubShopAdmin" -p "clubshop@123" --authenticationDatabase "admin"

To authenticate after connecting
mongo --port 27017

use admin
db.auth("clubShopAdmin", "clubshop@123")

Craete additions user:

use clubshopDb
db.createUser(
```

)

mongo --port 27017 -u "clubshopAdmin" -p "clunShop123" --authenticationDatabase "clubshopDb"

use clubshopDb

db.auth("clubshopAdmin", "clunShop123")

If you want you can create another user for TESTING only having access READ only. Using same process.

Enable authentication on Mongodb by editing /etc/mongod.conf. It should have the following line security:

authorization: enabled

Create a addition user on Mongodb Use MongoChef for it from your laptop

Congratulatiosn you creted mongo setup on aws successfully !!!