a. Deploy Tomcat Server. b. Install MySql DB.

Deploy of Tomcat Server In CentOs.

```
• Step 1: Update your CentOS system
```

sudo yum install epel-release

sudo yum update -y && sudo reboot

Replaced:

NetworkManager.x86_64 1:0.9.9.1-13.git20140326.4dba720.el7

Complete!

Connection to 127.0.0.1 closed by remote host. Connection to 127.0.0.1 closed.

• Step 2 : Install Java

sudo yum install java-1.8.0-openjdk.x86_64

pytnon-1xm1.x86_64 0:3.2.1-4.e1/ ttmkfdir.x86_64 0:3.0.9-42.el7 tzdata-java.noarch 0:2017b-1.el7 xorg-x11-font-utils.x86_64 1:7.5-20.el7 xorg-x11-fonts-Type1.noarch 0:7.5-9.el7

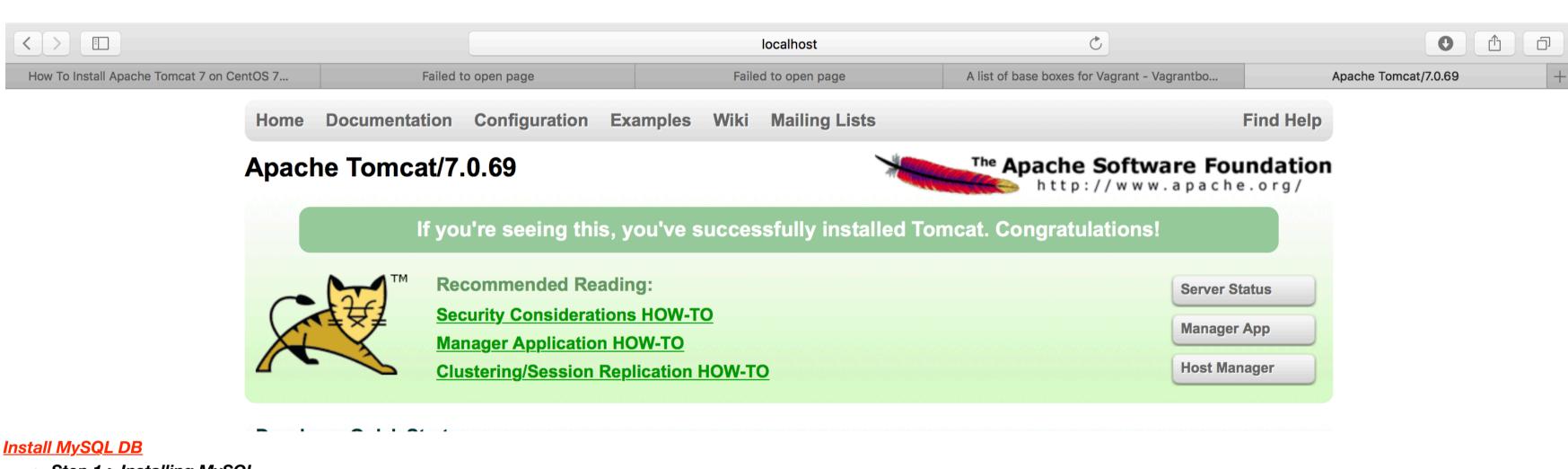
Complete!

java -version

[vagrant@localhost ~]\$ java -version openjdk version "1.8.0_131" OpenJDK Runtime Environment (build 1.8.0_131-b11) o OpenJDK 64-Bit Server VM (build 25.131-b11, mixed mode)

• Step 3 : Changes in Vagrantfile

- vi Vagrantfile
- please put in a Vagrantfile : config.vm.network"forwarded_port",guest:8080 , host:8081
- save and quit : wq!
- vagrant reload
- vagrant up
- vagrant status vagrant ssh
- Step 4 : Install Tomcat
 - sudo yum install tomcat
 - sudo vi /usr/share/tomcat/conf/tomcat.conf
 - JAVA OPTS="-Djava.security.egd=file:/dev/./urandom -Djava.awt.headless=true -Xmx512m -XX:MaxPermSize=256m -XX:+UseConcMarkSweepGC"
 - sudo yum install tomcat-webapps tomcat-admin-webapps
 - vi /usr/share/tomcat/conf/tomcat-users.xml
 - <tomcat-users>
 - <user username="admin" password="password" roles="manager-gui,admin-gui"/>
 - </tomcat-users>
 - sudo systemctl start tomcat
 - sudo systemctl restart tomcat
 - sudo systemctl enable tomcat
 - http://localhost:8081
- You will see something like the following image:



- Step 1 : Installing MySQL
 - wget https://dev.mysql.com/get/mysql57-community-release-el7-9.noarch.rpm
 - md5sum mysql57-community-release-el7-9.noarch.rpm • sudo rpm -ivh mysql57-community-release-el7-9.noarch.rpm
 - sudo yum install mysql-server
- Step 2: Starting MYSQL
 - sudo systemctl start mysqld
 - sudo systemcti status mysqld
 - if it shows active running, then the MYSQL has been started. [[vagrant@localhost ~]\$ sudo systemctl status mysqld

mysqld.service - MySQL Server

Loaded: loaded (/usr/lib/systemd/system/mysqld.service; enabled; vendor preset: disabled) Active: active (running) since Fri 2017-05-19 00:48:04 BST; 8s ago

Docs: man:mysqld(8)

http://dev.mysql.com/doc/refman/en/using-systemd.html Process: 2546 ExecStart=/usr/sbin/mysqld --daemonize --pid-file=/var/run/mysqld/mysqld.pid \$MYSQLD_OPTS (code=exited, status=0 UCCESS)

Process: 2472 ExecStartPre=/usr/bin/mysqld_pre_systemd (code=exited, status=0/SUCCESS)

Main PID: 2550 (mysqld)

CGroup: /system.slice/mysqld.service

└-2550 /usr/sbin/mysqld --daemonize --pid-file=/var/run/mysqld/mysqld.pid

- May 19 00:48:01 localhost.localdomain systemd[1]: Starting MySQL Server... • May 19 00:48:04 localhost localdomain systemd[1]: Started MySOL Server
- sudo grep 'temporary password' /var/log/mysqld.log temporary password is generated

[[vagrant@localhost ~]\$ sudo grep 'temporary password' /var/log/mysqld.log

2017-05-18T23:48:01.447570Z 1 [Note] A temporary password is generated for root@localhost: 0Pg8gqI6GQ.j

- Step 3: Configuring MYSQL
 - sudo mysql_secure_installation change the password
- Step 4: Testing MySQL

[vagrant@localhost ~]\$ mysqladmin -u root -p version

Enter password:

nysqladmin Ver 8.42 Distrib 5.7.18, for Linux on x86_64

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5.7.18 Server version Protocol version 10

Connection Localhost via UNIX socket /var/lib/mysql/mysql.sock JNIX socket

Jptime: 16 min 48 sec

o Threads: 1 Questions: 12 Slow queries: 0 Opens: 113 Flush tables: 1 Open tables: 106 Queries per second avg: 0.011