Web & App Servers

Linux Package Installation

RedHat, CentOS, Ubuntu, Debian etc RedHat / CentOS rpm (RedHat Package Manager) yum Ubuntu / Debian

apt apt-get

To download packages Syntax:

#wget <package name>

Ex : #wget http://downloads/jdk8.......tar.gz

Installation of tools To install Java For RedHat:

#yum install java –y

#java –version

For Ubuntu :

#apt-get install openjdk-7-jdk –y #apt-get install openjdk-6-jdk –y To Manage Services:

For RedHat7 / CentOS 7:

#systemctl start tomcat

#systemctl enable tomcat

#system stop tomcat

For Ubuntu / Debian

#service tomcat7 start

#service tomcat7 stop

#service tomcat7 restart

#service –status-all -- to show all running status

Web Server and App Server Web Server:

* To deploy static web pages (.html files)
* Ex: apache, ngnix
* Default port : 80
* Default deployment path : /var/www/html App Server:
* To deploy static & dynamic web pages & app (.war, .jar & .ear)
* Ex: tomcat, weblogic, Jboss, Websphere
* Default port for tomcat : 8080
* Default deployment path for tomcat :

for RedHat : /var/lib/tomcat/webapps for Ubuntu : /var/lib/tomcat7/webapps

To Install Web-Server For RedHat7:

#yum install httpd –y

#systemctl start httpd

#yum install net-tools –y #netstat –lntp -- to list all ports For Ubuntu:

#apt-get install apache2 –y

#service apache2 start

#service apache2 stop (to stop service)

#service –status-all -- to list all services which are running

#service <service name> status – to know about particular service ---- ex : #service apache2 status

[ctrl + c]

#mv index.html index.html.bkp - rename To Deploy Web-pages of Web server:

#cd /var/www/html/

#vi index.html

<h1> Hello from web server</h1>

[press ‘Esc’]

:wq! – write and quit

Open browser -- > http://<public ip address>

To install App Server (tomcat) For RedHat7 :

#yum install tomcat –y

#systemctl start tomcat

#systemctl enable tomcat

#netstat –lntp -- to list all ports

#ps –ef -- to list all process #ps –ef | grep ‘java’ For Ubuntu:

#apt-get install tomcat7 –y

#service tomcat7 start

#service tomcat7 restart

#ps –ef | grep ‘tomcat’

To deploy static web page in tomcat server

# • #cd /var/lib/tomcat7/webapps/ROOT

#mv index.html index.html.bkp

#vi index.html

## <h1 align=“center”>App server</h1>

[press Esc] :wq!

Open browser : <public ip>:8080

To deploy dynamic web-pages in tomcat

# #cd /var/lib/tomcat7/webapps

# #wget http://<location of war file>

# #service tomcat7 restart

# Open Browser <public ip>:8080/<app name>

To open Tomcat manager page Stop tomcat if running --- #service tomcat7 stop install tomcat admin • #apt-get install tomcat7-admin

• #cd /etc/tomcat7 • #vi tomcat-users.xml

add <user username=“admin” password=“tomcat” roles=“manager-gui”/> • #service tomcat7 start

To change port (default port) number

Stop tomcat server - #service tomcat7 stop

#cd /var/lib/tomcat7/conf

#vi server.xml

Change port 8080 to what ever you want [press Esc] :wq!

#service tomcat8 start

Distribution Method of installation

Download Packages

Extract Packages

Set path

Step-1: download packages:

Google – download jdk 8, tomcat 9

#cd /opt

#wget http://jdk1.8......tar.gz #wget http://apachetomcat9....tar.gz Step-2: Extract packages:

## #tar –xzf jdk1.8…..tar.gz

## #mv jdk1.8….. jdk8

## #tar –xzf apachetomcat9…tar.gz

## #mv apachetomcat9…… tomcat9

Step-3: To set Path #vi ~/.profile

export JAVA\_HOME=“/opt/jdk8” export PATH=$JAVA\_HOME/bin:$PATH export CATALINA\_HOME=“/opt/tomcat9” export PATH=$CATALINA\_HOME/bin:$PATH

:wq!

Step-4: to update path

#source ~/.profile

#java –version

#startup.sh -- to start tomcat

#shutdown.sh – to stop tomcat