

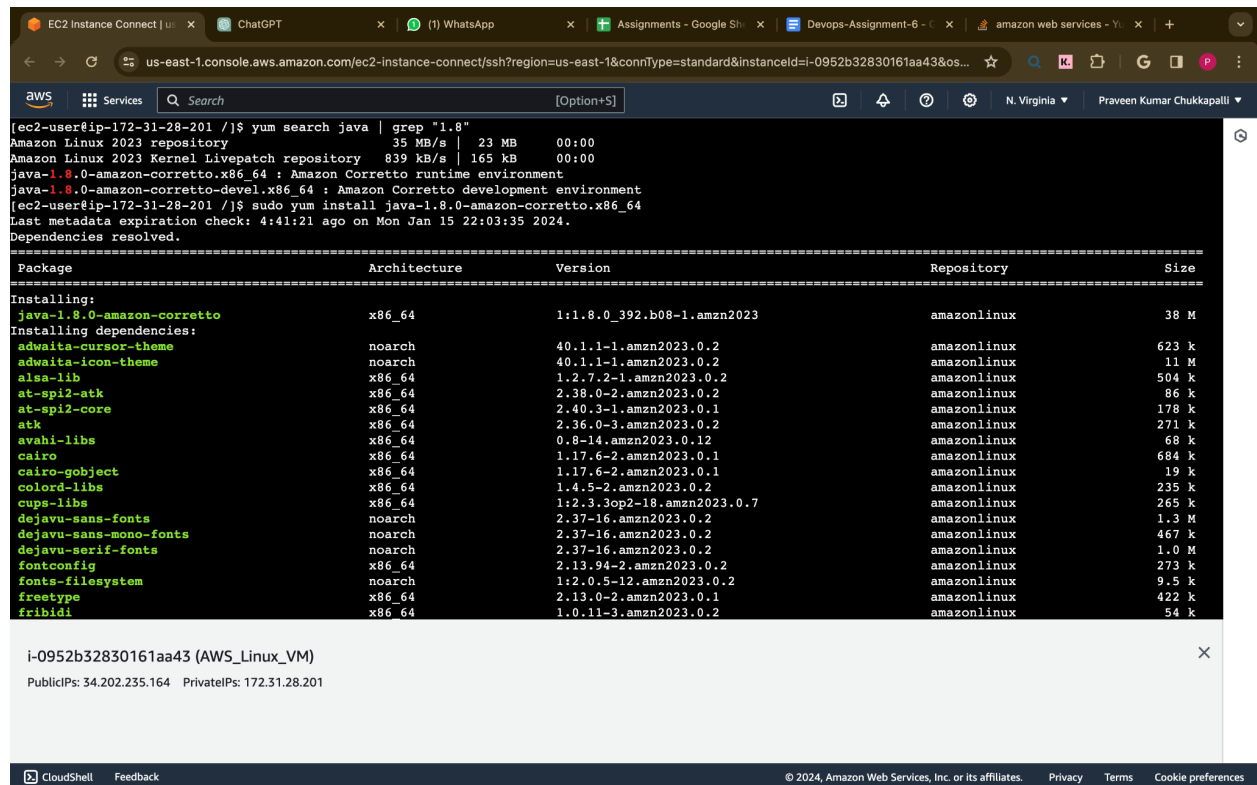
Devops Assignment- 6

Praveen Kumar Chukkapalli

1) Create a shell file which includes Installation of Tomcat 9(into new directory) and start tomcat service

Execute created shell file which should install and start service

Installing JAVA :



The screenshot shows a terminal window in the AWS CloudShell interface. The user has executed the command `yum search java | grep "1.8"` to find Java packages. The output shows several Java-related packages from the Amazon Linux 2023 repository. The user then executed `sudo yum install java-1.8.0-amazon-corretto.x86_64` to install the Java 1.8.0_392 runtime environment. The terminal output shows the package details and the installation progress.

```
[ec2-user@ip-172-31-28-201 ~]$ yum search java | grep "1.8"
Amazon Linux 2023 repository           35 MB/s | 23 MB   00:00
Amazon Linux 2023 Kernel Livepatch repository 839 kB/s | 165 kB 00:00
java-1.8.0-amazon-corretto.x86_64 : Amazon Corretto runtime environment
java-1.8.0-amazon-corretto-devel.x86_64 : Amazon Corretto development environment
[ec2-user@ip-172-31-28-201 ~]$ sudo yum install java-1.8.0-amazon-corretto.x86_64
Last metadata expiration check: 4:41:21 ago on Mon Jan 15 22:03:35 2024.
Dependencies resolved.
=====
Package                                Architecture      Version                                Repository          Size
=====
Installing:
java-1.8.0-amazon-corretto             x86_64            1:1.8.0_392.b08-1.amzn2023           amazonlinux          38 M
Installing dependencies:
adwaita-cursor-theme                   noarch            40.1.1-1.amzn2023.0.2                amazonlinux           623 k
adwaita-icon-theme                     x86_64            1.2.7-2-1.amzn2023.0.2                amazonlinux           504 k
alsa-lib                                x86_64            2.38.0-2.amzn2023.0.2                amazonlinux            86 k
at-spi2-atk                             x86_64            2.40.3-1.amzn2023.0.1                amazonlinux           178 k
at-spi2-core                            x86_64            2.36.0-3.amzn2023.0.2                amazonlinux           271 k
atk                                      x86_64            0.8-14.amzn2023.0.12                 amazonlinux            68 k
avahi-libus                             x86_64            1.17.6-2.amzn2023.0.1                amazonlinux           684 k
cairo                                    x86_64            1.17.6-2.amzn2023.0.1                amazonlinux            19 k
cairo-gobject                           x86_64            1.4.5-2.amzn2023.0.2                 amazonlinux           235 k
colord-libs                              x86_64            1:2.3.3op2-18.amzn2023.0.7           amazonlinux           265 k
dejavu-sans-fonts                       noarch            2.37-16.amzn2023.0.2                 amazonlinux           1.3 M
dejavu-sans-mono-fonts                  noarch            2.37-16.amzn2023.0.2                 amazonlinux           467 k
dejavu-serif-fonts                      noarch            2.37-16.amzn2023.0.2                 amazonlinux           1.0 M
fontconfig                               x86_64            2.13.94-2.amzn2023.0.2               amazonlinux           273 k
fonts-filesystem                        noarch            1:2.0.5-12.amzn2023.0.2              amazonlinux            9.5 k
freetype                                 x86_64            2.13.0-2.amzn2023.0.1               amazonlinux           422 k
fribidi                                  x86_64            1.0.11-3.amzn2023.0.2               amazonlinux            54 k
=====
```

i-0952b32830161aa43 (AWS_Linux_VM)

PublicIPs: 34.202.235.164 PrivateIPs: 172.31.28.201

CloudShell Feedback

© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Devops Assignment- 6

Praveen Kumar Chukkapalli

Code in bash file to execute the apache tomcat installation :

```
EC2 Instance Connect x Numerical Data Analysis x (2) WhatsApp x Assignments - Google x Devops-Assignment x Apache Tomcat/9.0 x SecurityGroup | EC2 x +
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-0952b32830161aa43...
AWS Services Search [Option+S] N. Virginia Praveen Kumar Chukkapalli
[ec2-user@ip-172-31-28-201 ~]$ sudo touch tomcat.sh
[ec2-user@ip-172-31-28-201 ~]$ cat tomcat.sh
#!/bin/bash

TOMCAT_VERSION="9.0.50"
INSTALL_DIR="/opt/tomcat"

sudo mkdir -p "$INSTALL_DIR"

sudo wget "https://archive.apache.org/dist/tomcat/tomcat-9/v$TOMCAT_VERSION/bin/apache-tomcat-$TOMCAT_VERSION.tar.gz" -P "$INSTALL_DIR"
sudo tar -xzf "$INSTALL_DIR/apache-tomcat-$TOMCAT_VERSION.tar.gz" -C "$INSTALL_DIR"

sudo "$INSTALL_DIR/apache-tomcat-$TOMCAT_VERSION/bin/startup.sh"

echo "Tomcat 9 installed in $INSTALL_DIR, service started, and accessible at http://localhost:8080/"

xdg-open "http://localhost:8080/"

[ec2-user@ip-172-31-28-201 ~]$ chmod +x tomcat.sh
chmod: changing permissions of 'tomcat.sh': Operation not permitted
[ec2-user@ip-172-31-28-201 ~]$ sudo chmod +x tomcat.sh
[ec2-user@ip-172-31-28-201 ~]$ sudo bash tomcat.sh
--2024-01-16 03:50:03-- https://archive.apache.org/dist/tomcat/tomcat-9/v9.0.50/bin/apache-tomcat-9.0.50.tar.gz
Resolving archive.apache.org (archive.apache.org)... 65.108.204.189, 2a01:4f9:1a:a084::2
Connecting to archive.apache.org (archive.apache.org)[65.108.204.189]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 11507318 (11M) [application/x-gzip]
Saving to: '/opt/tomcat/apache-tomcat-9.0.50.tar.gz.1'

apache-tomcat-9.0.50.tar.gz.1 100%[=====] 10.97M 7.71MB/s in 1.4s

2024-01-16 03:50:05 (7.71 MB/s) - '/opt/tomcat/apache-tomcat-9.0.50.tar.gz.1' saved [11507318/11507318]

Using CATALINA_BASE: /opt/tomcat/apache-tomcat-9.0.50
Using CATALINA_HOME: /opt/tomcat/apache-tomcat-9.0.50
Using CATALINA_TMPDIR: /opt/tomcat/apache-tomcat-9.0.50/temp
Using JRE_HOME: /usr
Using CLASSPATH: /opt/tomcat/apache-tomcat-9.0.50/bin/bootstrap.jar:/opt/tomcat/apache-tomcat-9.0.50/bin/tomcat-juli.jar
Using CATALINA_OPTS:
Tomcat started.
Tomcat 9 installed in /opt/tomcat, service started, and accessible at http://localhost:8080/
tomcat.sh: line 15: xdg-open: command not found
[ec2-user@ip-172-31-28-201 ~]$
```

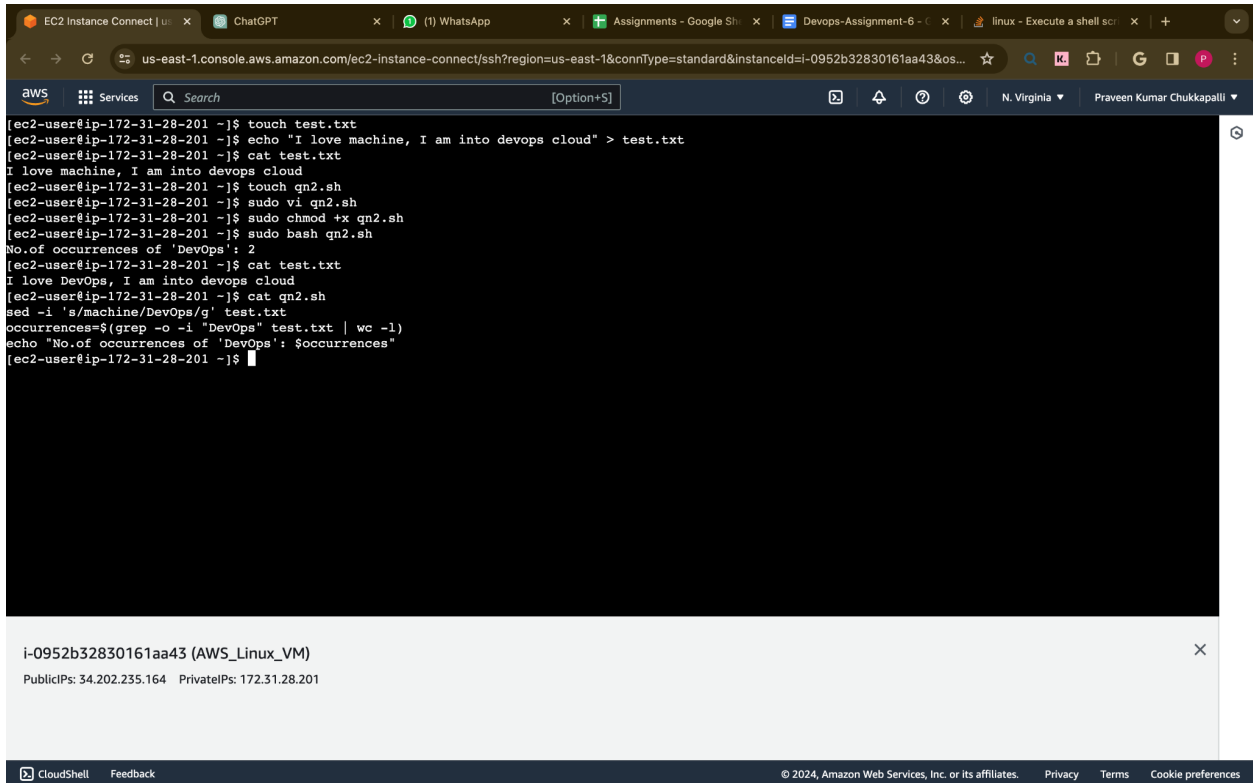
Apache running on 8080 port and its publicly accessible :

Devops Assignment- 6

Praveen Kumar Chukkapalli

2) Create a file (test.txt) with content as ""I love machine, I am into devops cloud""

Write a shell script which has to replace machine into DevOps in above file
Then print the no of occurrences of devops as output when we execute shell file



```
[ec2-user@ip-172-31-28-201 ~]$ touch test.txt
[ec2-user@ip-172-31-28-201 ~]$ echo "I love machine, I am into devops cloud" > test.txt
[ec2-user@ip-172-31-28-201 ~]$ cat test.txt
I love machine, I am into devops cloud
[ec2-user@ip-172-31-28-201 ~]$ touch qn2.sh
[ec2-user@ip-172-31-28-201 ~]$ sudo vi qn2.sh
[ec2-user@ip-172-31-28-201 ~]$ sudo chmod +x qn2.sh
[ec2-user@ip-172-31-28-201 ~]$ sudo bash qn2.sh
No.of occurrences of 'DevOps': 2
[ec2-user@ip-172-31-28-201 ~]$ cat test.txt
I love DevOps, I am into devops cloud
[ec2-user@ip-172-31-28-201 ~]$ cat qn2.sh
sed -i 's/machine/DevOps/g' test.txt
occurrences=$(grep -o -i "DevOps" test.txt | wc -l)
echo "No.of occurrences of 'DevOps': $occurrences"
[ec2-user@ip-172-31-28-201 ~]$
```

i-0952b32830161aa43 (AWS_Linux_VM)
PublicIPs: 34.202.235.164 PrivateIPs: 172.31.28.201

CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences