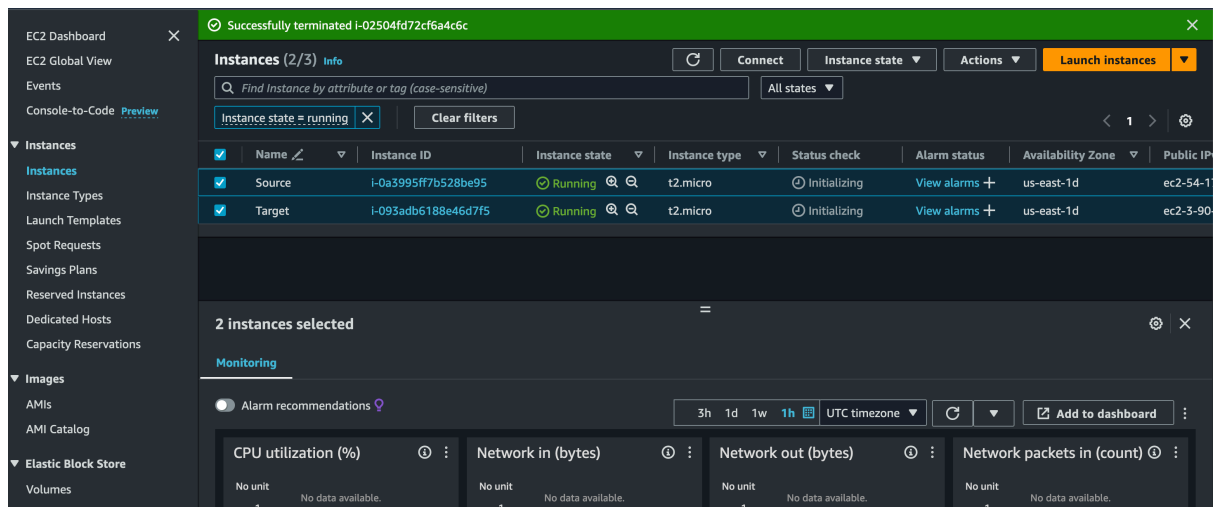


1. Create 2 EC2 instance with source and target server



2.

Source

```
ubuntu@ip-172-31-31-133:~/ansible$ history
 1 sudo apt update
 2 sudo apt install ansible
 3 mkdir ansible
 4 cd ansible/
 5 ll
 6 ssh-keygen
 7 ll
 8 cat /home/ubuntu/.ssh/id_ed25519.pub
 9 ssh 172.31.20.198
10 history
ubuntu@ip-172-31-31-133:~/ansible$
```

Create a files and it should be replicated over the target server
Please check them

Target

```
ubuntu@ip-172-31-20-198:~/.ssh$ history
 1 sudo apt update
 2 ssh-keygen
 3 ll
 4 cd ~/.ssh/
 5 ll
 6 vi authorized_keys
 7 history
ubuntu@ip-172-31-20-198:~/.ssh$
```

2. Write the playbook to install nginx

“ADHOC & PLAYBOOKS are used for the below”

Source

```
13 ansible -i inventory all -m "shell" -a "touch devopsclass"
14 vi first-playbook.yml
15 ansible-playbook -i inventory first-playbook.yml
16 ansible-playbook -i inventory first-playbook.yml
17 vi first-playbook.yml
18 ansible-playbook -i inventory first-playbook.yml
19 vi first-playbook.yml
20 ansible-playbook -i inventory first-playbook.yml
21 history
ubuntu@ip-172-31-31-133:~/ansible$
```

- name: nginx install & start services

hosts: all

become: true

tasks:

- name: install nginx

apt:

name: nginx

state: latest

- name: start nginx

service:

name: nginx

state: started

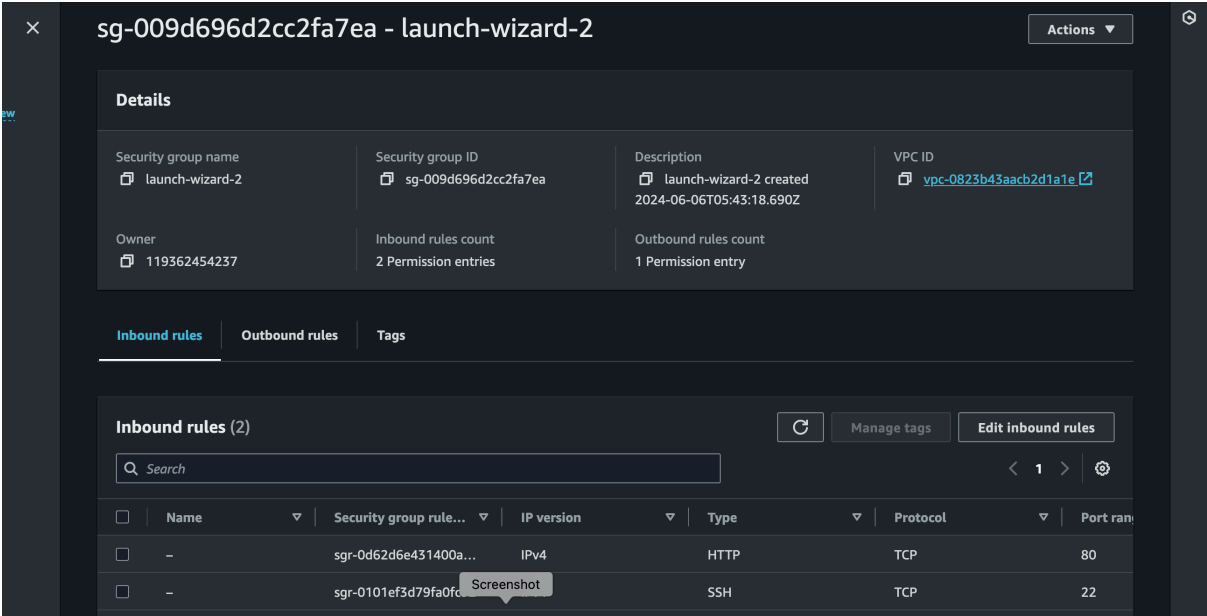
Target

Check the status it should be actively running

```
ubuntu@ip-172-31-20-198:~$ systemctl status nginx
● nginx.service - A high performance web server and a reverse proxy server
   Loaded: loaded (/usr/lib/systemd/system/nginx.service; enabled; preset: enabled)
   Active: active (running) since Thu 2024-06-06 06:12:08 UTC; 1min 48s ago
     Docs: man:nginx(8)
  Process: 2536 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
  Process: 2545 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
 Main PID: 2546 (nginx)
    Tasks: 2 (limit: 1130)
  Memory: 1.7M (peak: 1.9M)
     CPU: 15ms
   CGroup: /system.slice/nginx.service
           └─2546 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
             └─2547 "nginx: worker process"

Jun 06 06:12:08 ip-172-31-20-198 systemd[1]: Starting nginx.service - A high performance web server and a reverse proxy server...
Jun 06 06:12:08 ip-172-31-20-198 systemd[1]: Started nginx.service - A high performance web server and a reverse proxy server.
ubuntu@ip-172-31-20-198:~$
```

Go to aws console add the security groups with port 80



Go to browser and follow the below



3. Create a new playbook and add git and tree to it

- name: Install Git and Tree on Ubuntu

hosts: all

become: true

tasks:

- name: Update apt package index

apt:

update_cache: yes

- name: Install Git

apt:

name: git

state: present

- name: Install Tree

apt:

name: tree

state: present

```
ubuntu@ip-172-31-31-133:~/ansible$ vi second-playbook.yml
ubuntu@ip-172-31-31-133:~/ansible$ ansible-playbook -i inventory second-playbook.yml

PLAY [Install Git and Tree on Ubuntu] *****

TASK [Gathering Facts] *****
ok: [172.31.20.198]

TASK [Update apt package index] *****
changed: [172.31.20.198]

TASK [Install Git] *****
ok: [172.31.20.198]

TASK [Install Tree] *****
changed: [172.31.20.198]

PLAY RECAP *****
172.31.20.198 : ok=4 changed=2 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
```

Go to destination server and check whether it is installed or not

```
ubuntu@ip-172-31-20-198:~$ tree
.
└─ devopsclass

1 directory, 1 file
ubuntu@ip-172-31-20-198:~$ git --version
git version 2.43.0
ubuntu@ip-172-31-20-198:~$
```

4. Create a new playbook and add tomcat to it

Source

```
ubuntu@ip-172-31-31-133:~/ansible$ cat inventory
172.31.20.198

ubuntu@ip-172-31-31-133:~/ansible$
```

```
ubuntu@ip-172-31-31-133:~/ansible$ ansible-playbook -i inventory third-playbook.yml

PLAY [Install Apache Tomcat on Ubuntu] *****
TASK [Gathering Facts] *****
ok: [172.31.20.198]
TASK [Update apt cache] *****
changed: [172.31.20.198]
TASK [Install Java] *****
ok: [172.31.20.198]
TASK [Download Tomcat] *****
ok: [172.31.20.198]
TASK [Extract Tomcat] *****
ok: [172.31.20.198]
TASK [Set Tomcat Environment Variables] *****
ok: [172.31.20.198]
TASK [Start Tomcat Service] *****
changed: [172.31.20.198]

PLAY RECAP *****
172.31.20.198      : ok=7    changed=2    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

ubuntu@ip-172-31-31-133:~/ansible$
```

```
- name: Install Apache Tomcat on Ubuntu
  hosts: all
  become: yes
```

tasks:

```
- name: Update apt cache
  apt:
    update_cache: yes

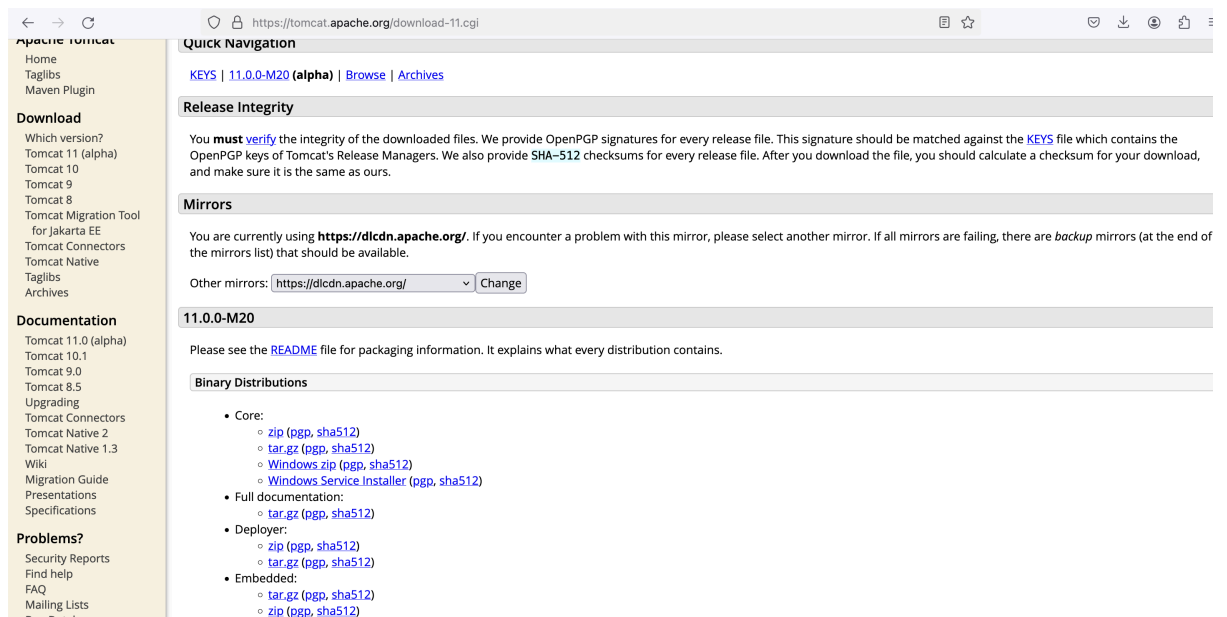
- name: Install Java
  apt:
    name: default-jdk
    state: present

- name: Download Tomcat
  get_url:
    url: "https://dlcdn.apache.org/tomcat/tomcat-11/v11.0.0-M20/bin/apache-tomcat-11.0.0-M20.tar.gz"
    dest: /tmp/apache-tomcat-11.0.0-M20.tar.gz
```

- name: Extract Tomcat
become: yes
unarchive:
src: /tmp/apache-tomcat-11.0.0-M20.tar.gz
dest: /opt
remote_src: yes
- name: Set Tomcat Environment Variables
lineinfile:
dest: /etc/environment
line: 'CATALINA_HOME="/opt/apache-tomcat-11.0.0-M20"'
- name: Start Tomcat Service
command: "{{ tomcat_startup_script }} start"
vars:
tomcat_startup_script: "/opt/apache-tomcat-11.0.0-M20/bin/startup.sh"

Note: Change the latest version of tomcat link

Tar.gz ➔ change all the tar links which are added to it.



5. Done

Go to browser and check it is working or not

←

→

↻

54.89.175.61:8080

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HomeDocumentationConfigurationExamplesWikiMailing Lists

Find Help

Apache Tomcat/11.0.0-M20



If you're seeing this, you've successfully installed Tomcat. Congratulations!



Recommended Reading:

[Security Considerations How-To](#)

[Manager Application How-To](#)

[Clustering/Session Replication How-To](#)

Server Status

Manager App

Host Manager

Developer Quick Start

[Tomcat Setup](#)

[First Web Application](#)

[Realms & AAA](#)

[JDBC DataSources](#)

[Examples](#)

[Servlet Specifications](#)

[Tomcat Versions](#)

Managing Tomcat

For security, access to the [manager webapp](#) is restricted. Users are defined in:
`$CATALINA_HOME/conf/tomcat-users.xml`
In Tomcat 11.0 access to the manager application is split between different users.
[Read more...](#)

[Release Notes](#)

[Changelog](#)

[Migration Guide](#)

[Security Notices](#)

Documentation

[Tomcat 11.0 Documentation](#)

[Tomcat 11.0 Configuration](#)

[Tomcat Wiki](#)

Find additional important configuration information in:
`$CATALINA_HOME/RUNNING.txt`
Developers may be interested in:
[Tomcat 11.0 Bug Database](#)
[Tomcat 11.0](#) [Screenshot](#)
[Tomcat 11.0 Git Repository at GitHub](#)

Getting Help

[FAQ](#) and [Mailing Lists](#)

The following mailing lists are available:

[tomcat-announce](#)
Important announcements, releases, security vulnerability notifications. (Low volume).

[tomcat-users](#)
User support and discussion

[taglibs-user](#)
User support and discussion for [Apache Taglibs](#)

[tomcat-dev](#)
Development mailing list, including commit messages

Done