

```

ansible/
├── hosts
├── casestudy1.yml
├── java.yml
└── roles/
    ├── apache/
    │   ├── tasks/
    │   │   └── main.yml
    │   └── files/
    │       └── apache_info.html
    ├── nginx/
    │   ├── tasks/
    │   │   └── main.yml
    │   └── files/
    │       └── nginx_info.html
    └── java/
        └── tasks/
            └── main.yml

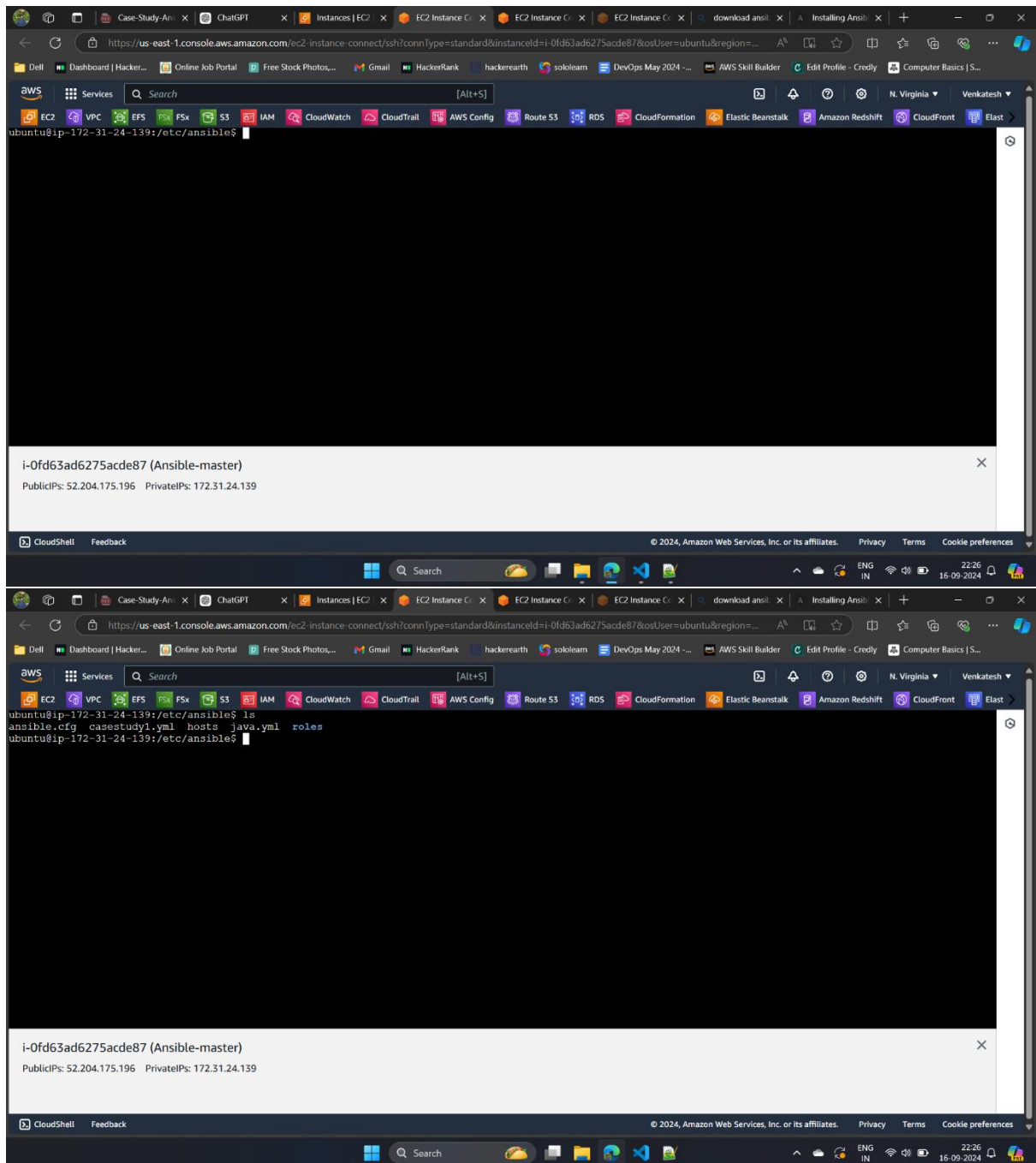
```

The screenshot displays the AWS Management Console for EC2 instances in the us-east-1 region. The left sidebar shows the navigation menu with 'Instances' selected. The main content area shows a table of 3 instances:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
Ansible-master	i-0fd63ad6275acde87	Running	t2.micro	2/2 checks passed	View alarms	us-east-1a
Ansible-slave1	i-06a016a524df912ce	Initializing	t2.micro	Initializing	View alarms	us-east-1a
Ansible-slave2	i-011aa19addf646992	Initializing	t2.micro	Initializing	View alarms	us-east-1a

Below the table, the 'Monitoring' section shows four graphs for the selected instances:

- CPU utilization (%):** A line graph showing CPU usage over time, with a peak of 14.9% and a current value of 7.45%.
- Network in (bytes):** A line graph showing network input over time, with a peak of 7.60M and a current value of 3.80M.
- Network out (bytes):** A line graph showing network output over time, with a peak of 319k and a current value of 159k.
- Network packets in (count):** A line graph showing network input packets over time, with a peak of 5.27k and a current value of 2.63k.



Case-Study-An... ChatGPT x Instances | EC2 x EC2 Instance Co x EC2 Instance Co x download ansib... Installing Ansib... x

https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0fd63ad6275acde87&osUser=ubuntu&region=...

Services Search [Alt+S]

EC2 VPC EFS PSx S3 IAM CloudWatch CloudTrail AWS Config Route 53 RDS CloudFormation Elastic Beanstalk Amazon Redshift CloudFront Elast...

```
ubuntu@ip-172-31-24-139:/etc/ansible$ ls
ansible.cfg  casestudy1.yml  hosts  java.yml  roles
ubuntu@ip-172-31-24-139:/etc/ansible$ cd roles/
ubuntu@ip-172-31-24-139:/etc/ansible/roles$ ls
apache  java  nginx
ubuntu@ip-172-31-24-139:/etc/ansible/roles$
```

i-0fd63ad6275acde87 (Ansible-master)  
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Services Search [Alt+S]

EC2 VPC EFS PSx S3 IAM CloudWatch CloudTrail AWS Config Route 53 RDS CloudFormation Elastic Beanstalk Amazon Redshift CloudFront Elast...

```
ubuntu@ip-172-31-24-139:/etc/ansible$ ls
ansible.cfg  casestudy1.yml  hosts  java.yml  roles
ubuntu@ip-172-31-24-139:/etc/ansible$ cd roles/
ubuntu@ip-172-31-24-139:/etc/ansible/roles$ ls
apache  java  nginx
ubuntu@ip-172-31-24-139:/etc/ansible/roles$ cd roles
-bash: cd: roles: No such file or directory
ubuntu@ip-172-31-24-139:/etc/ansible/roles$ cd apache/
ubuntu@ip-172-31-24-139:/etc/ansible/roles/apache$ ls
README.md  defaults  files  handlers  meta  tasks  templates  tests  vars
ubuntu@ip-172-31-24-139:/etc/ansible/roles/apache$ cd files/
ubuntu@ip-172-31-24-139:/etc/ansible/roles/apache/files$ cat apache_info.html
<DOCTYPE html>
<html>
<head>
  <title>Apache Server Information</title>
</head>
<body>
  <h1>Apache Server is running</h1>
  <p>Server Information:</p>
  <pre>{{ ansible_facts }}</pre>
</body>
</html>
ubuntu@ip-172-31-24-139:/etc/ansible/roles/apache/files$
```

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Services Search [Alt+S]

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<title>Apache Server Information</title>

</head>

<body>

<h1>Apache Server is running</h1>

<p>Server Information:</p>

<pre>{{ ansible\_facts }}</pre>

</body>

</html>

ubuntu@ip-172-31-24-139:/etc/ansible/roles/apache/files\$ cd ..

ubuntu@ip-172-31-24-139:/etc/ansible/roles/apache\$ cd tasks/

ubuntu@ip-172-31-24-139:/etc/ansible/roles/apache/tasks\$ cat main.yml

---

- name: Install Apache

package:

name: apache2

state: present

- name: Push Apache information HTML file

copy:

src: apache\_info.html

dest: /var/www/html/apache\_info.html

- name: Send post-installation message for Apache

debug:

msg: "Apache has been installed and configured successfully."

ubuntu@ip-172-31-24-139:/etc/ansible/roles/apache/tasks\$

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Services Search [Alt+S]

EC2 VPC EFS FSx S3 IAM CloudWatch CloudTrail AWS Config Route 53 RDS CloudFormation Elastic Beanstalk Amazon Redshift CloudFront Elast...

- name: Push Apache information HTML file

copy:

src: apache\_info.html

dest: /var/www/html/apache\_info.html

- name: Send post-installation message for Apache

debug:

msg: "Apache has been installed and configured successfully."

ubuntu@ip-172-31-24-139:/etc/ansible/roles/apache/tasks\$ cd /etc/ansible/roles/nginx/tasks

ubuntu@ip-172-31-24-139:/etc/ansible/roles/nginx/tasks\$ cat main.yml

# tasks file for nginx

- name: Install Nginx

package:

name: nginx

state: present

- name: Push Nginx information HTML file

copy:

src: nginx\_info.html

dest: /usr/share/nginx/html/nginx\_info.html

- name: Send post-installation message for Nginx

debug:

msg: "Nginx has been installed and configured successfully."

ubuntu@ip-172-31-24-139:/etc/ansible/roles/nginx/tasks\$

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aws Services Search [Alt+S]

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```
package:
  name: nginx
  state: present

- name: Push Nginx information HTML file
  copy:
    src: nginx_info.html
    dest: /usr/share/nginx/html/nginx_info.html

- name: Send post-installation message for Nginx
  debug:
    msg: "Nginx has been installed and configured successfully."
ubuntu@ip-172-31-24-139:/etc/ansible/roles/nginx/tasks$ cd ..
ubuntu@ip-172-31-24-139:/etc/ansible/roles/nginx$ cd files/
ubuntu@ip-172-31-24-139:/etc/ansible/roles/nginx/files$ cat nginx_info.html
<!DOCTYPE html>
<html>
<head>
<title>Nginx Server Information</title>
</head>
<body>
<h1>Nginx Server is running</h1>
<p>Server Information:</p>
<pre>{{ ansible_facts }}</pre>
</body>
</html>
ubuntu@ip-172-31-24-139:/etc/ansible/roles/nginx/files$
```

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EC2 VPC EFS FSx S3 IAM CloudWatch CloudTrail AWS Config Route 53 RDS CloudFormation Elastic Beanstalk Amazon Redshift CloudFront Elast...

```
msg: "Nginx has been installed and configured successfully."
ubuntu@ip-172-31-24-139:/etc/ansible/roles/nginx/tasks$ cd ..
ubuntu@ip-172-31-24-139:/etc/ansible/roles/nginx$ cd files/
ubuntu@ip-172-31-24-139:/etc/ansible/roles/nginx/files$ cat nginx_info.html
<!DOCTYPE html>
<html>
<head>
<title>Nginx Server Information</title>
</head>
<body>
<h1>Nginx Server is running</h1>
<p>Server Information:</p>
<pre>{{ ansible_facts }}</pre>
</body>
</html>
ubuntu@ip-172-31-24-139:/etc/ansible/roles/nginx/files$ cd ..
ubuntu@ip-172-31-24-139:/etc/ansible/roles/nginx$ cd ..
ubuntu@ip-172-31-24-139:/etc/ansible/roles$ cd java/
ubuntu@ip-172-31-24-139:/etc/ansible/roles/java$ cd tasks/
ubuntu@ip-172-31-24-139:/etc/ansible/roles/java/tasks$ cat main.yml
---
# tasks file for java
- name: Install Java
  package:
    name: openjdk-11-jdk
    state: present
ubuntu@ip-172-31-24-139:/etc/ansible/roles/java/tasks$
```

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Services Search [Alt+S]

EC2 VPC EFS FSx S3 IAM CloudWatch CloudTrail AWS Config Route 53 RDS CloudFormation Elastic Beanstalk Amazon Redshift CloudFront Elast...

<html>  
<head>  
<title>Nginx Server Information</title>  
</head>  
<body>  
<h1>Nginx Server is running</h1>  
<p>Server Information:</p>  
<pre>{{ ansible\_facts }}</pre>  
</body>  
</html>  
ubuntu@ip-172-31-24-139:/etc/ansible/roles/nginx/files\$ cd ..  
ubuntu@ip-172-31-24-139:/etc/ansible/roles/nginx\$ cd ..  
ubuntu@ip-172-31-24-139:/etc/ansible/roles\$ cd java/  
ubuntu@ip-172-31-24-139:/etc/ansible/roles/java\$ cd tasks/  
ubuntu@ip-172-31-24-139:/etc/ansible/roles/java/tasks\$ cat main.yml  
---  
# tasks file for java  
- name: Install Java  
 package:  
 name: openjdk-11-jdk  
 state: present  
ubuntu@ip-172-31-24-139:/etc/ansible/roles/java/tasks\$ cd ..  
ubuntu@ip-172-31-24-139:/etc/ansible/roles/java\$ cd ..  
ubuntu@ip-172-31-24-139:/etc/ansible/roles\$ cd ..  
ubuntu@ip-172-31-24-139:/etc/ansible\$ ls  
ansible.cfg casestudy1.yml hosts java.yml roles  
ubuntu@ip-172-31-24-139:/etc/ansible\$

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https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0fd63ad6275acde87&osUser=ubuntu&region=...

Services Search [Alt+S]

EC2 VPC EFS FSx S3 IAM CloudWatch CloudTrail AWS Config Route 53 RDS CloudFormation Elastic Beanstalk Amazon Redshift CloudFront Elast...

## db- [99:101]-node.example.com  
  
# Ex 3: A collection of database servers in the 'dbservers' group:  
  
## [dbservers]  
##  
## db01.intranet.mydomain.net  
## db02.intranet.mydomain.net  
## 10.25.1.56  
## 10.25.1.57  
  
# Ex4: Multiple hosts arranged into groups such as 'Debian' and 'openSUSE':  
  
## [Debian]  
## alpha.example.org  
## beta.example.org  
  
## [openSUSE]  
## green.example.com  
## blue.example.com  
  
[slave1]  
10.207.128.75  
[slave2]  
54.145.48.183  
ubuntu@ip-172-31-24-139:/etc/ansible\$

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https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0fd63ad6275acde87&osUser=ubuntu&region=us-east-1

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EC2 VPC EFS FSx S3 IAM CloudWatch CloudTrail AWS Config Route 53 RDS CloudFormation Elastic Beanstalk Amazon Redshift CloudFront Elast...

TASK [apache : Push Apache information HTML file] \*\*\*\*\*  
changed: [18.207.128.75]

TASK [apache : Send post-installation message for Apache] \*\*\*\*\*  
ok: [18.207.128.75] => {  
 "msg": "Apache has been installed and configured successfully."  
}  
PLAY [creating web server in salve2] \*\*\*\*\*

TASK [Gathering Facts] \*\*\*\*\*  
ok: [54.145.48.183]

TASK [nginx : Install Nginx] \*\*\*\*\*  
changed: [54.145.48.183]

TASK [nginx : Push Nginx information HTML file] \*\*\*\*\*  
changed: [54.145.48.183]

TASK [nginx : Send post-installation message for Nginx] \*\*\*\*\*  
ok: [54.145.48.183] => {  
 "msg": "Nginx has been installed and configured successfully."  
}  
PLAY RECAP \*\*\*\*\*  
18.207.128.75 : ok=4 changed=2 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0  
54.145.48.183 : ok=4 changed=2 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

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Not secure 18.207.128.75

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Apache2 Default Page

Ubuntu

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in `/usr/share/doc/apache2/README.Debian.gz`**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the `apache2-doc` package was installed on this server.

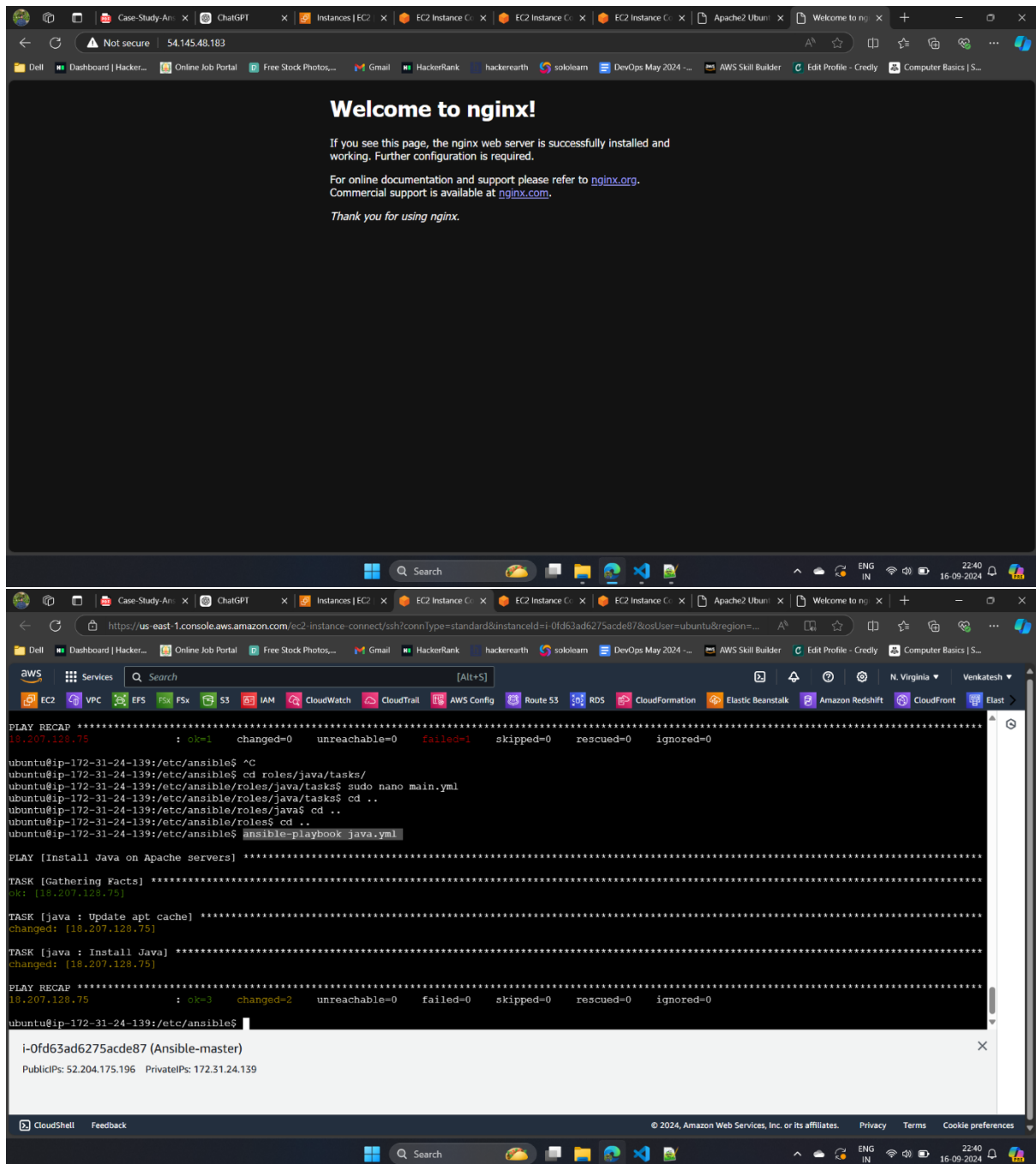
The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
/etc/apache2/  
|-- apache2.conf  
    |-- ports.conf  
    |-- mods-enabled  
        |-- *.load  
        |-- *.conf  
    |-- conf-enabled  
        |-- *.conf  
    |-- sites-enabled  
        |-- *.conf
```

Search

22:34 16-09-2024





Case-Study-An... ChatGPT Instances | EC2 EC2 Instance C... EC2 Instance C... EC2 Instance C... Apache2 Ubu... Welcome to n... + -

https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0fd63ad6275acde87&osUser=ubuntu&region=...

Services Search [Alt+S]

EC2 VPC EFS PSx S3 IAM CloudWatch CloudTrail AWS Config Route 53 RDS CloudFormation Elastic Beanstalk Amazon Redshift CloudFront Elast...

PLAY [Install Java on Apache servers] \*\*\*\*\*

TASK [Gathering Facts] \*\*\*\*\*

ok: [18.207.128.75]

TASK [java : Update apt cache] \*\*\*\*\*

changed: [18.207.128.75]

TASK [java : Install Java] \*\*\*\*\*

changed: [18.207.128.75]

PLAY RECAP \*\*\*\*\*

18.207.128.75 : ok=3 changed=2 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0

ubuntu@ip-172-31-24-139:/etc/ansible\$ cat /etc/ansible/roles/java/tasks/main.yml

---

- name: Update apt cache

become: yes

apt:

update\_cache: yes

- name: Install Java

become: yes

apt:

name: openjdk-11-jdk

state: present

ubuntu@ip-172-31-24-139:/etc/ansible\$

i-0fd63ad6275acde87 (Ansible-master)

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https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-1&connType=standard&instanceId=i-06a016a524df912ce&osUser=...

Services Search [Alt+S]

EC2 VPC EFS PSx S3 IAM CloudWatch CloudTrail AWS Config Route 53 RDS CloudFormation Elastic Beanstalk Amazon Redshift CloudFront Elast...

ubuntu@ip-172-31-16-132:~\$ java --version

openjdk 11.0.24 2024-07-16

OpenJDK Runtime Environment (build 11.0.24+8-post-Ubuntu-1ubuntu324.04.1)

OpenJDK 64-Bit Server VM (build 11.0.24+8-post-Ubuntu-1ubuntu324.04.1, mixed mode, sharing)

ubuntu@ip-172-31-16-132:~\$

i-06a016a524df912ce (Ansible-slave1)

PublicIPs: 18.207.128.75 PrivateIPs: 172.31.16.132

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```
1 /etc/ansible$ ls
2 ansible.cfg casestudy1.yml hosts java.yml roles
3
4 /etc/ansible/roles$ ls
5 apache java nginx
6
7 etc/ansible/roles/apache$ ls
8 README.md defaults files handlers meta tasks templates tests vars
9
10 /etc/ansible/roles/apache/files$ cat apache_info.html
11 <!DOCTYPE html>
12 <html>
13 <head>
14 <title>Apache Server Information</title>
15 </head>
16 <body>
17 <h1>Apache Server is running</h1>
18 <p>Server Information:</p>
19 <pre>{{ ansible_facts }}</pre>
20 </body>
```

```
21 </html>
22
23 /etc/ansible/roles/apache/tasks$ cat main.yml
24 ---
25 - name: Install Apache
26 package:
27   name: apache2
28   state: present
29
30 - name: Push Apache information HTML file
31   copy:
32     src: apache_info.html
33     dest: /var/www/html/apache_info.html
34
35 - name: Send post-installation message for Apache
36   debug:
37     msg: "Apache has been installed and configured successfully."
38
39 /etc/ansible/roles/nginx/tasks$ cat main.yml
40 ---
41 # tasks file for nginx
42 - name: Install Nginx
43   package:
44     name: nginx
45     state: present
46
47 - name: Push Nginx information HTML file
48   copy:
49     src: nginx_info.html
50     dest: /usr/share/nginx/html/nginx_info.html
51
```

52 - name: Send post-installation message for Nginx  
53 debug:  
54 msg: "Nginx has been installed and configured successfully."

55

56 /etc/ansible/roles/nginx/files\$ cat nginx\_info.html

57 <!DOCTYPE html>

58 <html>

59 <head>

60 <title>Nginx Server Information</title>

61 </head>

62 <body>

63 <h1>Nginx Server is running</h1>

64 <p>Server Information:</p>

65 <pre>{{ ansible\_facts }}</pre>

66 </body>

67 </html>

68

69 cat /etc/ansible/roles/java/tasks/main.yml

70 ---

71 - name: Update apt cache

72 become: yes

73 apt:

74 update\_cache: yes

75

76 - name: Install Java

77 become: yes

78 apt:

79 name: openjdk-11-jdk

80 state: present

81

82 ls

83 ansible.cfg casestudy1.yml hosts java.yml roles

84

85 cat hosts

86 [slave1]

87 18.207.128.75

88 [slave2]

89 54.145.48.183

90

91 cat casestudy1.yml

92 ---

93 - name: creating web server in slave1

94 become: true

95 hosts: slave1

96 roles:

97 - apache

98 - name: creating web server in slave2

99 become: true

100 hosts: slave2

101 roles:

102 - nginx

103

104 cat java.yml

105 ---

106 - name: Install Java on Apache servers

107 hosts: slave1

108 roles:

109 - java