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Lab2: Ansible

1- Building infrastructure.

- Create VPC with 4 Subnets (2 Public & 2 Private)
- Create NAT and internet gateways.
- Create Security group and attach it.

The screenshot shows the AWS Management Console for Security Groups. The top section displays the 'Ansible-sg' security group with its ID, name, VPC ID, and description. Below this, the 'Inbound rules' section lists six rules, including HTTP, SSH, HTTPS, and Custom TCP rules.

Name	Security group ID	Security group name	VPC ID	Description
Ansible-sg	sg-0c51cb598149383b6	pub-sec-group	vpc-0a03eefa3121a22d1	Allow HTTP traffic
-	sg-01dc1b194e6ff489e	priv-http	vpc-07400e566f189225a	priv-http

Name	Security group rule...	IP version	Type	Protocol
-	sgr-043ca3269c1e4431a	IPv4	HTTP	TCP
-	sgr-02ba7ed71a7093d...	IPv4	SSH	TCP
-	sgr-0ea773061931e56...	IPv4	HTTPS	TCP
-	sgr-03dcfee500b1e9023	IPv4	Custom TCP	TCP
-	sgr-05f28047d276f0ed6	IPv4	Custom TCP	TCP
-	sgr-02152b6ea55f5e5dc	IPv4	Custom TCP	TCP

- Launch 3 instances (1 public Jump Host & 2 private ones)

The screenshot shows the AWS Management Console for EC2 Instances. The top section displays a list of three instances: Nexus-server, Jump-Host, and Sonarcube-ser... The Jump-Host instance is selected, and its details are shown in the bottom section, including its ID, state, type, and various addresses.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availabi
Nexus-server	i-0f8f6f594d529a9b6	Running	t2.medium	Initializing	No alarms	us-east-
Jump-Host	i-07538667ca883b831	Running	t2.micro	Initializing	No alarms	us-east-
Sonarcube-ser...	i-008949a30d3157f6c	Running	t2.medium	Initializing	No alarms	us-east-

Instance: i-07538667ca883b831 (Jump-Host)

Details	Security	Networking	Storage	Status checks	Monitoring	Tags
Instance summary Instance ID: i-07538667ca883b831 (Jump-Host) IPv6 address: - Hostname type: IP name: ip-10-0-0-28.ec2.Internal		Public IPv4 address copied 54.172.166.191 open address Instance state: Running Private IP DNS name (IPv4 only): ip-10-0-0-28.ec2.Internal				

- Create Target groups and Load Balancer.

EC2 > Target groups

Target groups (2) Info

Refresh

Actions

Create target group

Search or filter target groups

< 1 >

Settings

<input type="checkbox"/>	Name	ARN	Port	Protocol	Target type
<input type="checkbox"/>	targetGroup1	arn:aws:elasticloadbalanci...	8081	HTTP	Instance
<input type="checkbox"/>	targetGroup2	arn:aws:elasticloadbalanci...	9000	HTTP	Instance

0 target groups selected

×

Select a target group above.

EC2 > Load balancers

Load balancers (1/1)

Elastic Load Balancing scales your load balancer capacity automatically in response to changes in incoming traffic.

Refresh

Actions

Create load balancer

Filter by property or value

< 1 >

Settings

<input checked="" type="checkbox"/>	Name	DNS name	State	VPC ID	Availability Zones
	=				

Load balancer: Ansible-lb

×

Details

Listeners

Network mapping

Security

Monitoring

Integrations

Attributes

Tags

Details

arn:aws:elasticloadbalancing:us-east-1:724690408369:loadbalancer/app/Ansible-lb/e5c08ab906ba3e7d

Load balancer type

Application

Ansible-lb-602988331.us-east-1.elb.amazonaws.com

(A Record)

Status

Active

VPC

vpc-0a03eefa3121a22d1

- In terminal: `vi ~/.ssh/config`

```
Host jump-host
  hostname 54.172.166.194
  user ubuntu
  port 22
  identityfile /home/salma/Desktop/Ansible/Task2/ansible-key.pem
```

2- Creating Roles through ansible-galaxy

```
salma @ Thu Feb 16 > ansible-galaxy init roles/nexus1
- Role roles/nexus1 was created successfully
salma @ Thu Feb 16 > ansible-galaxy init roles/sonarcube1
- Role roles/sonarcube1 was created successfully
salma @ Thu Feb 16 > █
```

- Writing inventory & Playbook.

- Run Playbook.

For Nexus:

Following steps in this link:

<https://devopscube.com/how-to-install-latest-sonatype-nexus-3-on-linux/>

For Sonarcube:

Following steps in this link: [Installing postgres and sonarqube.](#)

<https://www.vultr.com/docs/install-sonargube-on-ubuntu-20-04-lts/>

```

packages/ansible/plugins/filter/mathstuff.py) as it seems to be invalid: cannot
import name 'environmentfilter' from 'jinja2.filters'
(/home/salma/.local/lib/python3.8/site-packages/jinja2/filters.py)
skipping: [sonarcube]

TASK [sonarcube : Create a systemd service file to start SonarQube at system bo
ot] ***
ok: [sonarcube]

TASK [sonarcube : reboot the machine] *****
*
changed: [sonarcube]

PLAY RECAP *****
*
jump-host           : ok=2    changed=0    unreachable=0    failed=0
skipped=0           rescued=0    ignored=0
nexus               : ok=14   changed=4    unreachable=0    failed=0
skipped=0           rescued=0    ignored=0
sonarcube           : ok=24   changed=8    unreachable=0    failed=0
skipped=1           rescued=0    ignored=0

```

At port: 8081

← → ↻ ansible-lb-602988331.us-east-1.elb.amazonaws.com:8081 ☆

Sonatype Nexus Repository Manager OSS 3.471-01 🔍 Search components 🔁 ? ➔ Sign In

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Welcome Learn about Sonatype Nexus Repository Manager

What's new in Nexus Repository 3.40 Pro?

New repository connector type!

In this version, we introduce subdomain routing for Docker repositories.

With subdomain routing, you no longer need to use port connectors or remember a lengthy list of port numbers. Create more easily memorable subdomains with logically assigned names instead.




You'll also experience the added benefit of avoiding the performance limitations that come with port connectors. Learn about these changes in our [help documentation](#) and check out the ["Have you heard" video](#).

Open Source Attacks on the Rise: Top 8 Malicious Packages Found in npm

[Read More...](#)

🔧

but for port: 9000 this error shows:

  ansible-lb-602988331.us-east-1.elb.amazonaws.com:9000 

502 Bad Gateway