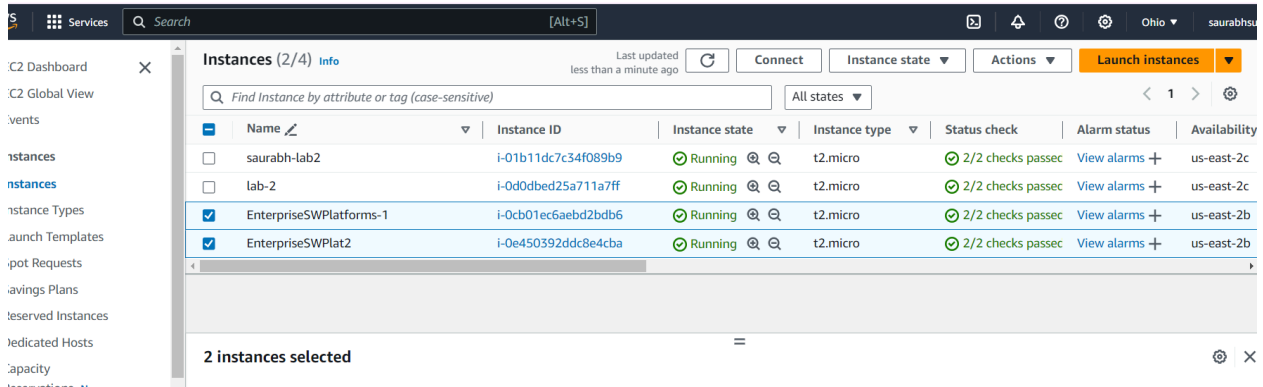


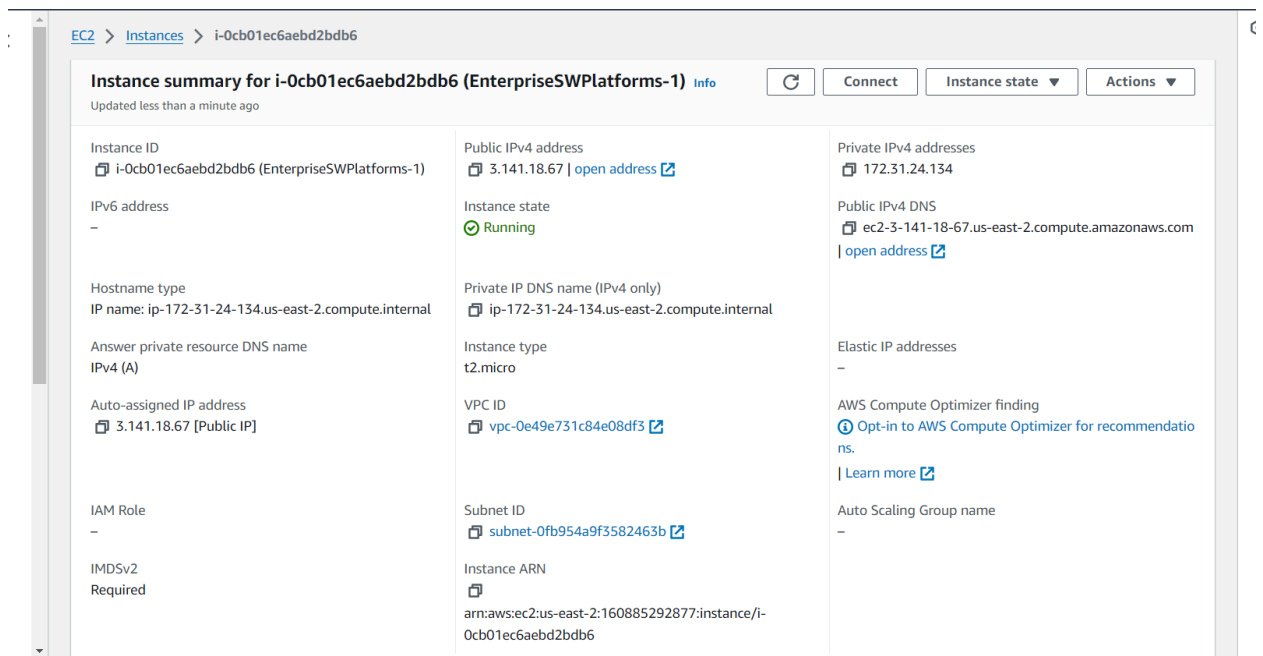
HW #1 Ansible

1. Screenshots of vms and their ip



The screenshot shows the AWS Management Console 'Instances' page. The left sidebar contains navigation links: 'Services', 'Search', 'EC2 Dashboard', 'EC2 Global View', 'Instances', 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', and 'Capacity'. The main content area is titled 'Instances (2/4)' and shows a table of running EC2 instances. The table has columns for Name, Instance ID, Instance state, Instance type, Status check, Alarm status, and Availability. Two instances are listed: 'saurabh-lab2' and 'lab-2', both with status 'Running'. Below the table, it indicates '2 instances selected'.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
saurabh-lab2	i-01b11dc7c34f089b9	Running	t2.micro	2/2 checks passed	View alarms	us-east-2c
lab-2	i-0d0dbed25a711a7ff	Running	t2.micro	2/2 checks passed	View alarms	us-east-2c
EnterpriseSWPlatforms-1	i-0cb01ec6aebd2bdb6	Running	t2.micro	2/2 checks passed	View alarms	us-east-2b
EnterpriseSWPlat2	i-0e450392ddc8e4cba	Running	t2.micro	2/2 checks passed	View alarms	us-east-2b



The screenshot shows the 'Instance summary' page for the instance 'i-0cb01ec6aebd2bdb6 (EnterpriseSWPlatforms-1)'. The page displays various attributes of the instance in a grid layout. The instance is in the 'Running' state. Key attributes include: Instance ID, Public IPv4 address (3.141.18.67), Private IPv4 addresses (172.31.24.134), Public IPv4 DNS (ec2-3-141-18-67.us-east-2.compute.amazonaws.com), Private IP DNS name (ip-172-31-24-134.us-east-2.compute.internal), Instance type (t2.micro), VPC ID (vpc-0e49e731c84e08df3), Subnet ID (subnet-0fb954a9f3582463b), Instance ARN (arn:aws:ec2:us-east-2:160885292877:instance/i-0cb01ec6aebd2bdb6), and IAM Role (Required).

Attribute	Value
Instance ID	i-0cb01ec6aebd2bdb6 (EnterpriseSWPlatforms-1)
Public IPv4 address	3.141.18.67 open address
Private IPv4 addresses	172.31.24.134
Public IPv4 DNS	ec2-3-141-18-67.us-east-2.compute.amazonaws.com open address
Private IP DNS name (IPv4 only)	ip-172-31-24-134.us-east-2.compute.internal
Instance state	Running
Instance type	t2.micro
VPC ID	vpc-0e49e731c84e08df3
Subnet ID	subnet-0fb954a9f3582463b
Instance ARN	arn:aws:ec2:us-east-2:160885292877:instance/i-0cb01ec6aebd2bdb6
IAM Role	Required

Instance summary for i-0e450392ddc8e4cba (EnterpriseSWPlat2) Info		
Updated less than a minute ago		
Instance ID i-0e450392ddc8e4cba (EnterpriseSWPlat2)	Public IPv4 address 18.216.82.107 open address	Private IPv4 addresses 172.31.24.177
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-18-216-82-107.us-east-2.compute.amazonaws.com open address
Hostname type IP name: ip-172-31-24-177.us-east-2.compute.internal	Private IP DNS name (IPv4 only) ip-172-31-24-177.us-east-2.compute.internal	Elastic IP addresses -
Answer private resource DNS name IPv4 (A)	Instance type t2.micro	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more
Auto-assigned IP address 18.216.82.107 [Public IP]	VPC ID vpc-0e49e731c84e08df3	Auto Scaling Group name -
IAM Role -	Subnet ID subnet-0fb954a9f3582463b	
IMDSv2 Required	Instance ARN arn:aws:ec2:us-east-2:160885292877:instance/i-0e450392ddc8e4cba	

2. Ansible deploy

Command used -> `ansible-playbook -i hosts.ini playbook.yml -e deploy_webserver=true`

```

❯ [vm2]
[cloudshell-user@ip-10-132-63-4 ~]$ ansible-playbook -i hosts.ini playbook.yml -e deploy_webserver=true

PLAY [Manage webserver on VM1 and VM2] *****

TASK [Gathering Facts] *****
[WARNING]: Platform linux on host vm1 is using the discovered Python interpreter at /usr/bin/python3.9, but future installation of another Python interpreter could change the meaning of that path. See
https://docs.ansible.com/ansible-core/2.15/reference_appendices/interpreter_discovery.html for more information.
❯ [vm1]
[WARNING]: Platform linux on host vm2 is using the discovered Python interpreter at /usr/bin/python3.9, but future installation of another Python interpreter could change the meaning of that path. See
https://docs.ansible.com/ansible-core/2.15/reference_appendices/interpreter_discovery.html for more information.
❯ [vm2]

TASK [Install Apache] *****
❯ [vm2]
❯ [vm1]

TASK [Start and enable Apache] *****
❯ [vm2]
❯ [vm1]

TASK [Create index.html] *****
❯ [vm2]
❯ [vm1]

TASK [Open port 8080 for Apache] *****
❯ [vm2]
❯ [vm1]

```

3. Ansible undeploy

Command used -> `ansible-playbook -i hosts.ini playbook.yml -e undeploy_webserver=true`

```
[cloudshell-user@ip-10-132-63-4 ~]$ ansible-playbook -i hosts.ini playbook.yml -e undeploy_webserver=true

PLAY [Manage webserver on VM1 and VM2] *****

TASK [Gathering Facts] *****
[WARNING]: Platform linux on host vm2 is using the discovered Python interpreter at /usr/bin/python3.9, but future installation of another Python interpreter could change the meaning of that path. See
https://docs.ansible.com/ansible-core/2.15/reference_appendices/interpreter_discovery.html for more information.
ok: [vm2]
[WARNING]: Platform linux on host vm1 is using the discovered Python interpreter at /usr/bin/python3.9, but future installation of another Python interpreter could change the meaning of that path. See
https://docs.ansible.com/ansible-core/2.15/reference_appendices/interpreter_discovery.html for more information.
ok: [vm1]

TASK [Install Apache] *****
skipping: [vm1]
skipping: [vm2]

TASK [Start and enable Apache] *****
skipping: [vm1]
skipping: [vm2]

TASK [Create index.html] *****
skipping: [vm1]
skipping: [vm2]

TASK [Open port 8080 for Apache] *****
skipping: [vm1]
skipping: [vm2]

TASK [Restart Apache] *****
skipping: [vm1]
skipping: [vm2]

TASK [Stop Apache] *****
changed: [vm1]
changed: [vm1]

TASK [Remove Apache] *****
changed: [vm2]
changed: [vm1]

TASK [Restart Apache] *****
skipping: [vm1]
skipping: [vm2]

TASK [Stop Apache] *****
changed: [vm2]
changed: [vm1]

TASK [Remove Apache] *****
changed: [vm2]
changed: [vm1]

TASK [Remove index.html] *****
changed: [vm2]
changed: [vm1]

TASK [Revert port 8080 configuration for Apache] *****
changed: [vm2]
changed: [vm1]
```

LINKS

- Link to demo video - 📺 9_8_2024, 6_20_47 PM - Screen - Untitled video.webm
- Link to github link - <https://github.com/Saurabh-Suchak/Enterprise-Software-Platform-Ansible>