AWS Hands-On Assignment 05 (On Console and CLI)

Network Interface + Hibernate Instance

QUESTION NO: 01

Console:

1. Create Network Interface (NIC) on Console:
- Navigate to the AWS Management Console.
- Create a new Network Interface (NIC) in a specific VPC and subnet.
- Associate the NIC with a security group.
- Note down the Private IP address assigned to the NIC.

2. Launch EC2 Instance and Associate NIC:
- Launch a new EC2 instance using the AWS Management Console.
- During the instance launch, associate the previously created NIC with the instance.
- Confirm that the instance has the expected private IP address.

3. Verify Network Interface Configuration:
- Access the EC2 instance and verify the network interface configuration.
- Use the console to check the details of the associated NIC.

4. Documentation:
- Provide a step-by-step guide with screenshots for creating a NIC, associating it with an EC2 instance, and verifying the configuration.
- Include outputs or confirmation messages from the console.

SOLUTION:-

Q1:- 1

EC2 > Network interfaces > Create network interface

Create network interface

An elastic network interface is a logical networking component in a VPC that represents a virtual network card.

Details Info

Description - *optional*
A descriptive name for the network interface.
Network interface

Subnet
The subnet in which to create the network interface.
subnet-0b90326392310b094

Private IPv4 address
The private IPv4 address to assign to the network interface.
- ○ Auto-assign
- ◉ Custom

IPv4 address
172.31.16.101

Elastic Fabric Adapter
- ☐ Enable

▶ Advanced settings

Security groups (1/5) Info

Find security groups

1

	Group ID	Group name	Description
☐	sg-043cecaa6d43a6f52	web-sg	Allow SSH and HTTP access to…
☐	sg-01197c3385b3ac6b4	default	default VPC security group
☑	sg-007fccc878a71cfb2	WEB-SECURITY-GROUP	WEB_SERVER_SECURITY_GRO…
☐	sg-02bc435fbd8011f00	launch-wizard-1	launch-wizard-1 created 2024…
☐	sg-0af072bd5ab61d726	launch-wizard-2	launch-wizard-2 created 2024…

Tags - *optional*

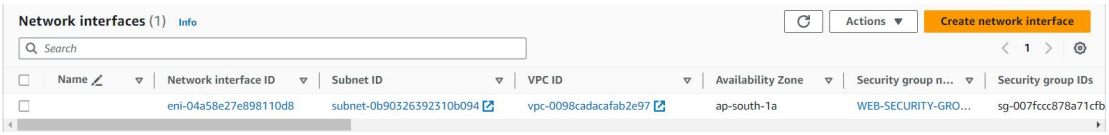
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags associated with the resource.

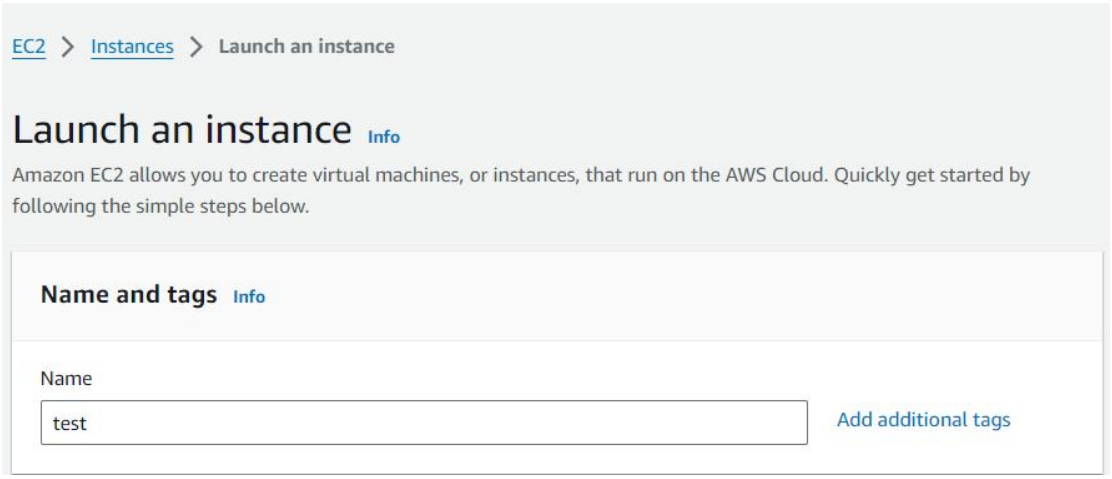
Add new tag

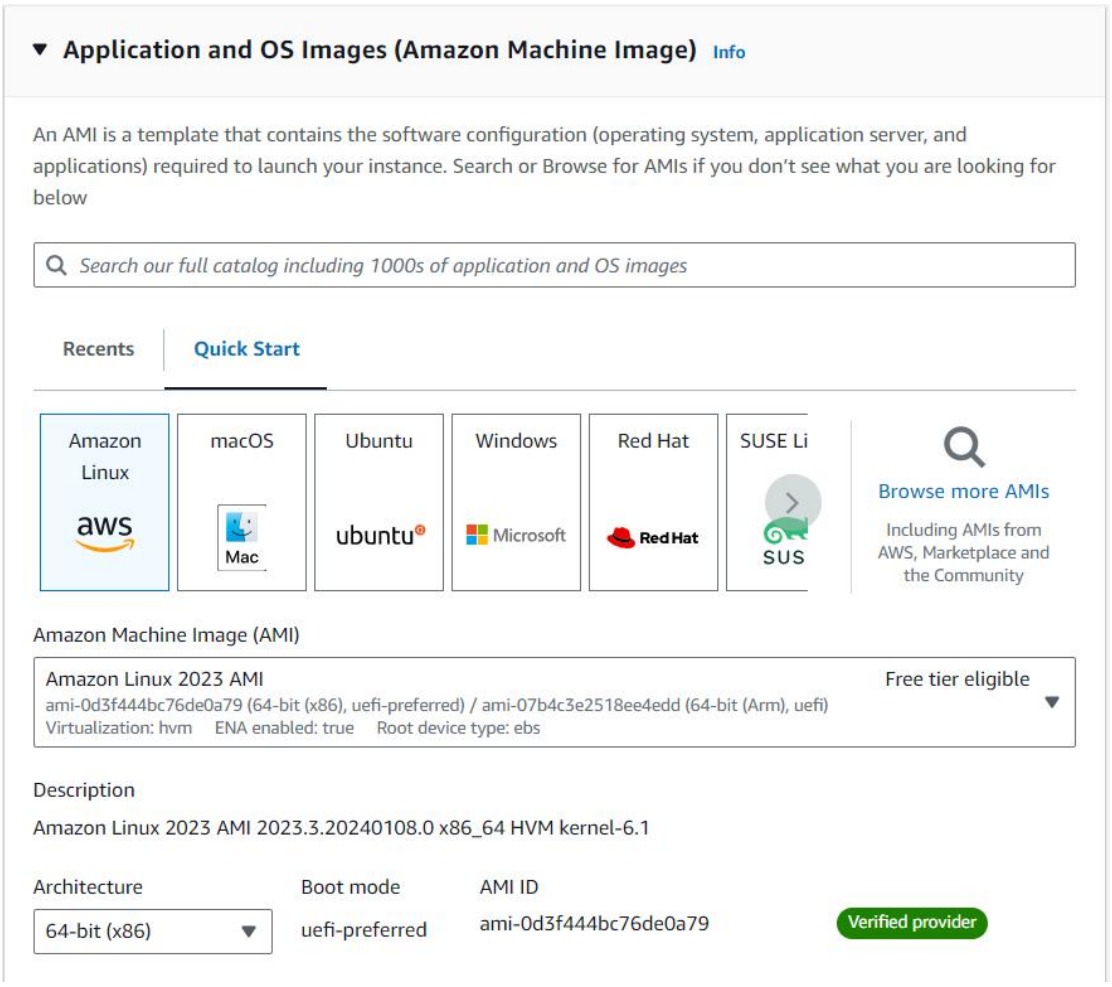
You can add 50 more tags

Cancel | Create network interface


Network interfaces (1) Info
Search
Actions
Create network interface
Name
Network interface ID
Subnet ID
VPC ID
Availability Zone
Security group n...
Security group IDs
eni-04a58e27e898110d8
subnet-0b90326392310b094
vpc-0098cadacafab2e97
ap-south-1a
WEB-SECURITY-GRO...
sg-007fccc878a71cfb

Q1:- 2


EC2 > Instances > Launch an instance
Launch an instance Info
Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.
Name and tags Info
Name
test
Add additional tags


Application and OS Images (Amazon Machine Image) Info
An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below
Search our full catalog including 1000s of application and OS images
Recents
Quick Start
Amazon Linux
macOS
Mac
Ubuntu
Windows
Microsoft
Red Hat
SUSE Li
SUS
Browse more AMIs
Including AMIs from AWS, Marketplace and the Community
Amazon Machine Image (AMI)
Amazon Linux 2023 AMI
ami-0d3f444bc76de0a79 (64-bit (x86), uefi-preferred) / ami-07b4c3e2518ee4edd (64-bit (Arm), uefi)
Virtualization: hvm ENA enabled: true Root device type: ebs
Free tier eligible
Description
Amazon Linux 2023 AMI 2023.3.20240108.0 x86_64 HVM kernel-6.1
Architecture
64-bit (x86)
Boot mode
uefi-preferred
AMI ID
ami-0d3f444bc76de0a79
Verified provider

Instance type Info | Get advice

Instance type

t2.micro — Free tier eligible
Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand Linux base pricing: 0.0124 USD per Hour
On-Demand Windows base pricing: 0.017 USD per Hour
On-Demand RHEL base pricing: 0.0724 USD per Hour
On-Demand SUSE base pricing: 0.0124 USD per Hour

All generations

Compare instance types

Additional costs apply for AMIs with pre-installed software

Key pair (login) Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - *required*

MyKeyPair

Create new key pair

Network settings Info

VPC - *required* Info

vpc-0098cadacafab2e97 (default)
172.31.0.0/16

Subnet Info

subnet-0b90326392310b094
VPC: vpc-0098cadacafab2e97 Owner: 255851499496
Availability Zone: ap-south-1a IP addresses available: 4090 CIDR: 172.31.16.0/20)

Create new subnet

Auto-assign public IP Info

Disable

Firewall (security groups) Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

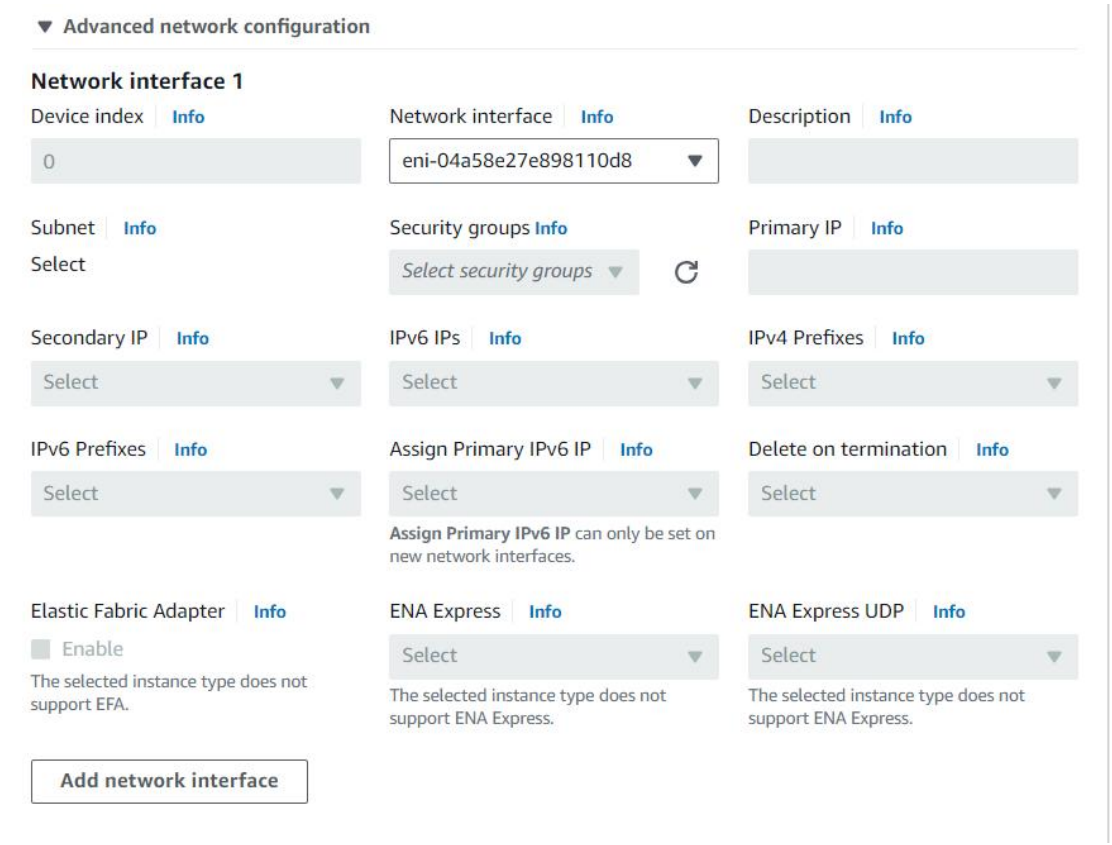
- ○ Create security group
- ◉ Select existing security group

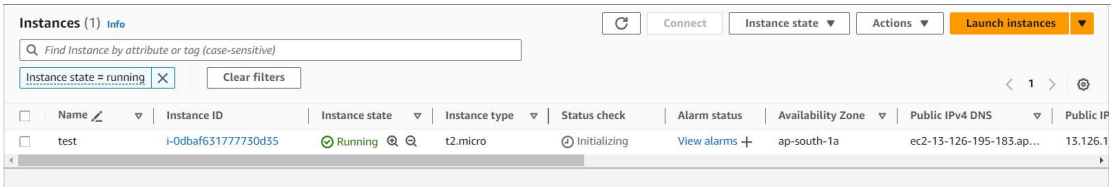
Common security groups Info

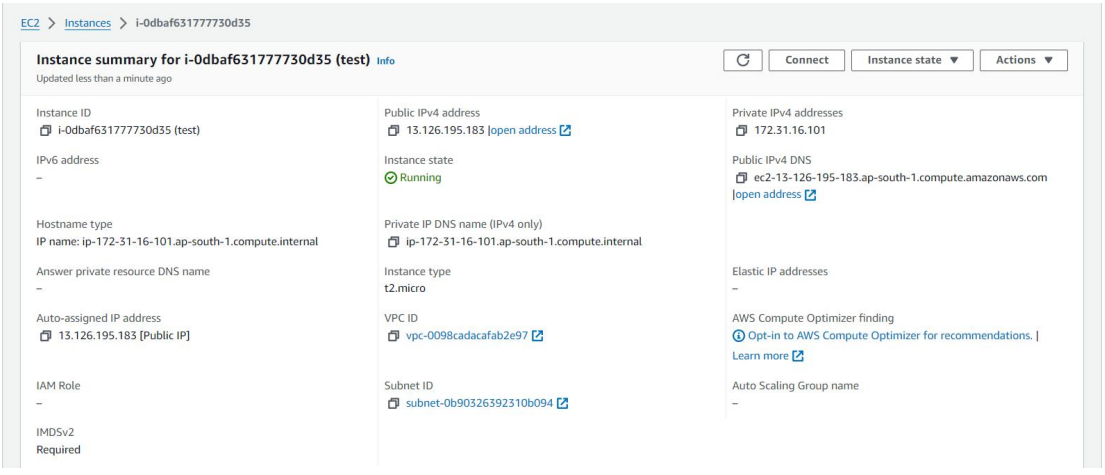
Select security groups

Compare security group rules

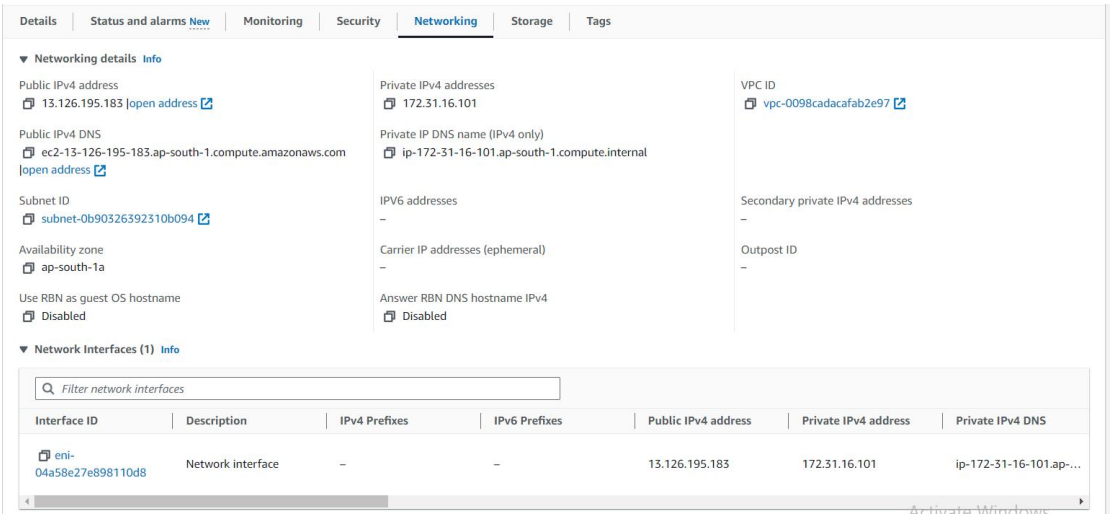
Security groups that you add or remove here will be added to or removed from all your network interfaces.


Advanced network configuration
Network interface 1
Device index Info
0
Network interface Info
eni-04a58e27e898110d8
Description Info
Subnet Info
Select
Security groups Info
Select security groups
Primary IP Info
Secondary IP Info
Select
IPv6 IPs Info
Select
IPv4 Prefixes Info
Select
IPv6 Prefixes Info
Select
Assign Primary IPv6 IP Info
Select
Assign Primary IPv6 IP can only be set on new network interfaces.
Delete on termination Info
Select
Elastic Fabric Adapter Info
Enable
The selected instance type does not support EFA.
ENA Express Info
Select
The selected instance type does not support ENA Express.
ENA Express UDP Info
Select
The selected instance type does not support ENA Express.
Add network interface


Instances (1) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
Instance state = running
Clear filters
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 DNS
test
i-0dbaf631777730d35
Running
t2.micro
Initializing
View alarms
ap-south-1a
ec2-13-126-195-183.ap...


EC2 > Instances > i-0dbaf631777730d35
Instance summary for i-0dbaf631777730d35 (test) Info
Updated less than a minute ago
Connect
Instance state
Actions
Instance ID
i-0dbaf631777730d35 (test)
Public IPv4 address
13.126.195.183 |open address
Private IPv4 addresses
172.31.16.101
IPv6 address
–
Instance state
Running
Public IPv4 DNS
ec2-13-126-195-183.ap-south-1.compute.amazonaws.com |open address
Hostname type
IP name: ip-172-31-16-101.ap-south-1.compute.internal
Private IP DNS name (IPv4 only)
ip-172-31-16-101.ap-south-1.compute.internal
Answer private resource DNS name
–
Instance type
t2.micro
Elastic IP addresses
–
Auto-assigned IP address
13.126.195.183 [Public IP]
VPC ID
vpc-0098cadacafab2e97
AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations. | Learn more
IAM Role
–
Subnet ID
subnet-0b90326392310b094
Auto Scaling Group name
–
IMDSv2
Required

Q1:- 3



CLI:

1. Create Network Interface (NIC) using AWS CLI:
- Use the AWS CLI to create a new Network Interface (NIC) in a specific VPC and subnet.
- Associate the NIC with a security group.
- Note down the Private IP address assigned to the NIC.

2. Launch EC2 Instance and Associate NIC using AWS CLI:
- Use the AWS CLI to launch a new EC2 instance.
- During the instance launch, associate the previously created NIC with the instance.
- Confirm that the instance has the expected private IP address.

3. Verify Network Interface Configuration using AWS CLI:
- Use the AWS CLI to check the details of the associated NIC and the EC2 instance.
- Confirm the network interface configuration.

4. Documentation:
- Provide a detailed document with AWS CLI commands for creating a NIC, associating it with an EC2 instance, and verifying the configuration.
- Include any relevant information such as NIC IDs, private IP addresses, etc.

SOLUTION:-

Q1:- 1

root@DESKTOP-VIDGD8F:AWS# aws ec2 create-network-interface --description Network-Interface-Card --groups sg-007fccc878a71cfb2 --subnet-id subnet-0b90326392310b094

{

"NetworkInterface": {

```
"AvailabilityZone": "ap-south-1a",
"Description": "Network-Interface-Card",
"Groups": [
    {
        "GroupName": "WEB-SECURITY-GROUP",
        "GroupId": "sg-007fccc878a71cfb2"
    }
],
"InterfaceType": "interface",
"Ipv6Addresses": [],
"MacAddress": "02:aa:60:72:93:c3",
"NetworkInterfaceId": "eni-052036103a59e7ed1",
"OwnerId": "255851499496",
"PrivateDnsName": "ip-172-31-22-30.ap-south-1.compute.internal",
"PrivateIpAddress": "172.31.22.30",
"PrivateIpAddresses": [
    {
        "Primary": true,
        "PrivateDnsName": "ip-172-31-22-30.ap-south-1.compute.internal",
        "PrivateIpAddress": "172.31.22.30"
    }
],
"RequesterManaged": false,
"SourceDestCheck": true,
"Status": "pending",
```

```
        "SubnetId": "subnet-0b90326392310b094",
        "TagSet": [],
        "VpcId": "vpc-0098cadacafab2e97"
    }
}
```


Q1:- 2

```
root@DESKTOP-VIDGD8F:AWS# aws ec2 run-instances --image-id ami-0d3f444bc76de0a79 --key-name data-key --instance-type t2.micro --security-group-ids sg-01197c3385b3ac6b4 --associate-public-ip-address --private-ip-address 172.31.16.101 --tag-specifications 'ResourceType=instance,Tags=[{Key=Name,Value=Instance-1}]'
```


```
{
    "Groups": [],
    "Instances": [
        {
            "AmiLaunchIndex": 0,
            "ImageId": "ami-0d3f444bc76de0a79",
            "InstanceId": "i-051ed95cccaecf1a5",
            "InstanceType": "t2.micro",
            "KeyName": "data-key",
            "LaunchTime": "2024-01-22T11:22:44.000Z",
            "Monitoring": {
                "State": "disabled"
            },
            "Placement": {
                "AvailabilityZone": "ap-south-1a",
                "GroupName": "",
```

```
    "Tenancy": "default"
},
"PrivateDnsName": "ip-172-31-16-101.ap-south-1.compute.internal",
"PrivateIpAddress": "172.31.16.101",
"ProductCodes": [],
"PublicDnsName": "",
"State": {
    "Code": 0,
    "Name": "pending"
},
"StateTransitionReason": "",
"SubnetId": "subnet-0b90326392310b094",
"VpcId": "vpc-0098cadacafab2e97",
"Architecture": "x86_64",
"BlockDeviceMappings": [],
"ClientToken": "4ff1c147-a5d2-4393-9a2d-d3ec7ae37fca",
"EbsOptimized": false,
"EnaSupport": true,
"Hypervisor": "xen",
"NetworkInterfaces": [
    {
        "Attachment": {
            "AttachTime": "2024-01-22T11:22:44.000Z",
            "AttachmentId": "eni-attach-0c8f8f712cbc0a11c",
            "DeleteOnTermination": true,
```

```
            "DeviceIndex": 0,
            "Status": "attaching",
            "NetworkCardIndex": 0
        },
        "Description": "",
        "Groups": [
            {
                "GroupName": "default",
                "GroupId": "sg-01197c3385b3ac6b4"
            }
        ],
        "Ipv6Addresses": [],
        "MacAddress": "02:a1:ae:31:00:65",
        "NetworkInterfaceId": "eni-09baed7ed96635f8f",
        "OwnerId": "255851499496",
        "PrivateDnsName": "ip-172-31-16-101.ap-south-1.compute.internal",
        "PrivateIpAddress": "172.31.16.101",
        "PrivateIpAddresses": [
            {
                "Primary": true,
                "PrivateDnsName": "ip-172-31-16-101.ap-south-
1.compute.internal",
                "PrivateIpAddress": "172.31.16.101"
            }
        ],
        "SourceDestCheck": true,
```

```
            "Status": "in-use",
            "SubnetId": "subnet-0b90326392310b094",
            "VpcId": "vpc-0098cadacafab2e97",
            "InterfaceType": "interface"
        }
    ],
    "RootDeviceName": "/dev/xvda",
    "RootDeviceType": "ebs",
    "SecurityGroups": [
        {
            "GroupName": "default",
            "GroupId": "sg-01197c3385b3ac6b4"
        }
    ],
    "SourceDestCheck": true,
    "StateReason": {
        "Code": "pending",
        "Message": "pending"
    },
    "Tags": [
        {
            "Key": "Name",
            "Value": "Instance-1"
        }
    ],
```

```
"VirtualizationType": "hvm",
"CpuOptions": {
    "CoreCount": 1,
    "ThreadsPerCore": 1
},
"CapacityReservationSpecification": {
    "CapacityReservationPreference": "open"
},
"MetadataOptions": {
    "State": "pending",
    "HttpTokens": "required",
    "HttpPutResponseHopLimit": 2,
    "HttpEndpoint": "enabled",
    "HttpProtocolIpv6": "disabled",
    "InstanceMetadataTags": "disabled"
},
"EnclaveOptions": {
    "Enabled": false
},
"BootMode": "uefi-preferred",
"PrivateDnsNameOptions": {
    "HostnameType": "ip-name",
    "EnableResourceNameDnsARecord": false,
    "EnableResourceNameDnsAAAARecord": false
}
```

```
        }
    ],
    "OwnerId": "255851499496",
    "ReservationId": "r-05d318d2d14aed57d"
}
```


root@DESKTOP-VIDGD8F:AWS# aws ec2 attach-network-interface --instance-id i-051ed95cccaecf1a5 --network-interface-id eni-052036103a59e7ed1 --device-index 1


```
{
    "AttachmentId": "eni-attach-0b874930bd1b19fb0",
    "NetworkCardIndex": 0
}
```


Q1:- 3

root@DESKTOP-VIDGD8F:AWS# aws ec2 describe-network-interfaces --network-interface-ids eni-052036103a59e7ed1


```
{
    "NetworkInterfaces": [
        {
            "Attachment": {
                "AttachTime": "2024-01-22T11:23:42.000Z",
                "AttachmentId": "eni-attach-0b874930bd1b19fb0",
                "DeleteOnTermination": false,
                "DeviceIndex": 1,
                "NetworkCardIndex": 0,
                "InstanceId": "i-051ed95cccaecf1a5",
                "InstanceOwnerId": "255851499496",
                "Status": "attached"
```

```
},
"AvailabilityZone": "ap-south-1a",
"Description": "Network-Interface-Card",
"Groups": [
    {
        "GroupName": "WEB-SECURITY-GROUP",
        "GroupId": "sg-007fccc878a71cfb2"
    }
],
"InterfaceType": "interface",
"Ipv6Addresses": [],
"MacAddress": "02:aa:60:72:93:c3",
"NetworkInterfaceId": "eni-052036103a59e7ed1",
"OwnerId": "255851499496",
"PrivateDnsName": "ip-172-31-22-30.ap-south-1.compute.internal",
"PrivateIpAddress": "172.31.22.30",
"PrivateIpAddresses": [
    {
        "Primary": true,
        "PrivateDnsName": "ip-172-31-22-30.ap-south-1.compute.internal",
        "PrivateIpAddress": "172.31.22.30"
    }
],
"RequesterManaged": false,
"SourceDestCheck": true,
```

```
            "Status": "in-use",
            "SubnetId": "subnet-0b90326392310b094",
            "TagSet": [],
            "VpcId": "vpc-0098cadacafab2e97"
        }
    ]
}
```


QUESTION NO: 02

Hibernate Instance

Console:

1. Hibernate EC2 Instance on Console:
- Launch a new EC2 instance using the AWS Management Console.
- Access the console to hibernate the running instance.
- Confirm the status change to "hibernating."

2. Resume Hibernated EC2 Instance:
- Resume the hibernated instance using the console.
- Confirm the instance state changes to "running."

3. Verify Instance State:
- Check the instance state using the console to ensure successful hibernation and resumption.

4. Documentation:
- Provide a step-by-step guide with screenshots for hibernating and resuming an EC2 instance using the console.
- Include outputs or confirmation messages from the console.

SOLUTION:-

EC2 > Instances > Launch an instance

Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags Info

Name

TEST-1

Add additional tags

▼ Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS images

Recents | Quick Start

Amazon Linux | macOS | Ubuntu | Windows | Red Hat | SUSE Li

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI — Free tier eligible

ami-0d3f444bc76de0a79 (64-bit (x86), uefi-preferred) / ami-07b4c3e2518ee4edd (64-bit (Arm), uefi)

Virtualization: hvm ENA enabled: true Root device type: ebs

Description

Amazon Linux 2023 AMI 2023.3.20240108.0 x86_64 HVM kernel-6.1

Architecture	Boot mode	AMI ID	
64-bit (x86)	uefi-preferred	ami-0d3f444bc76de0a79	Verified provider

Instance type Info | Get advice

Instance type

t2.micro — Free tier eligible
Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand Linux base pricing: 0.0124 USD per Hour
On-Demand Windows base pricing: 0.017 USD per Hour
On-Demand RHEL base pricing: 0.0724 USD per Hour
On-Demand SUSE base pricing: 0.0124 USD per Hour

All generations

Compare instance types

Additional costs apply for AMIs with pre-installed software

Key pair (login) Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - *required*

MyKeyPair

Create new key pair

Network settings Info

VPC - *required* Info

vpc-0098cadacafab2e97 (default)
172.31.0.0/16

Subnet Info

subnet-0b90326392310b094
VPC: vpc-0098cadacafab2e97 Owner: 255851499496
Availability Zone: ap-south-1a IP addresses available: 4090 CIDR: 172.31.16.0/20)

Create new subnet

Auto-assign public IP Info

Enable

Firewall (security groups) Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

○ Create security group

● Select existing security group

Common security groups Info

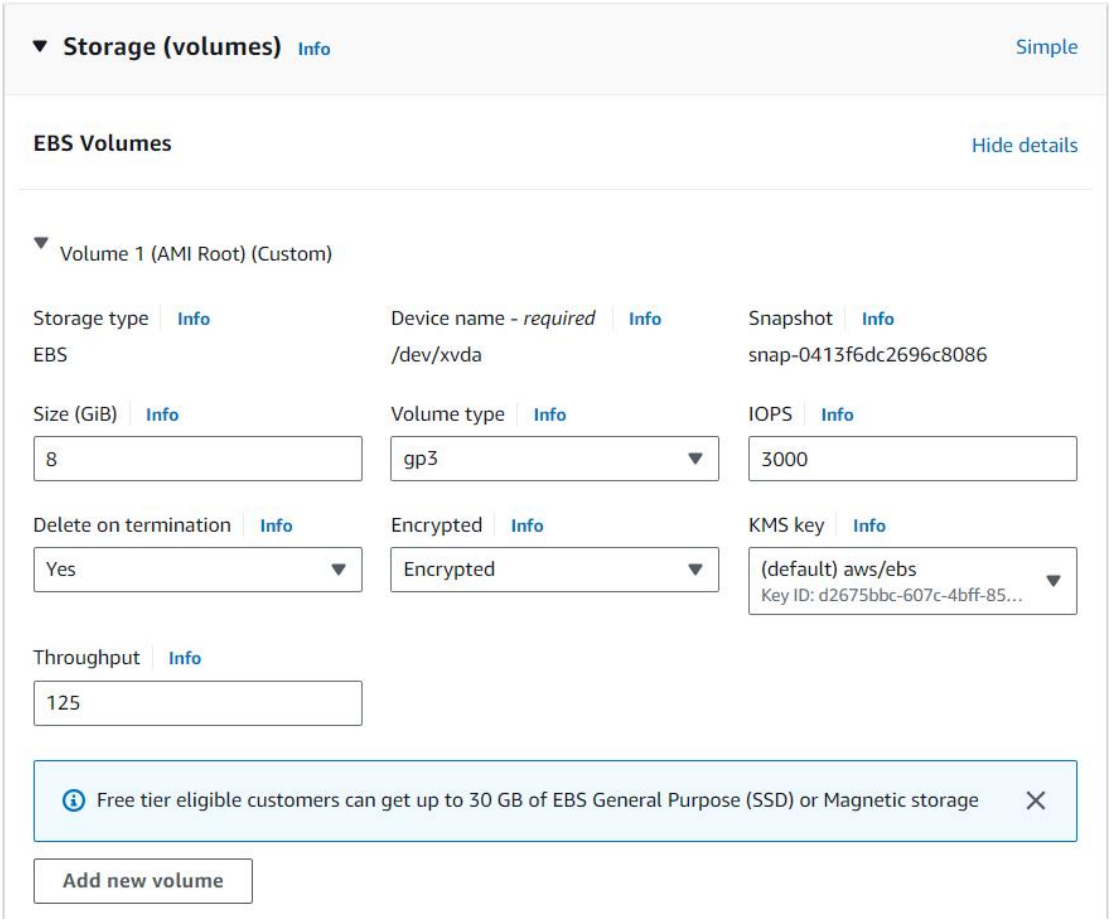
Select security groups

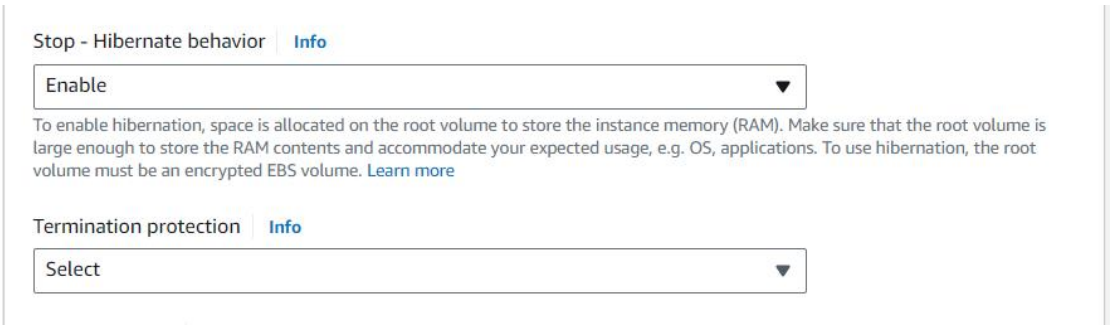
WEB-SECURITY-GROUP sg-007fccc878a71cfb2 ×
VPC: vpc-0098cadacafab2e97

Compare security group rules

Security groups that you add or remove here will be added to or removed from all your network interfaces.

▶ Advanced network configuration





CLI:

1. Hibernate EC2 Instance using AWS CLI:
- Use the AWS CLI to launch a new EC2 instance.
- Use the AWS CLI to hibernate the running instance.
- Confirm the status change to "hibernating."

2. Resume Hibernated EC2 Instance using AWS CLI:
- Use the AWS CLI to resume the hibernated instance.
- Confirm the instance state changes to "running."

3. Verify Instance State using AWS CLI:
- Use the AWS CLI to check the instance state and ensure successful hibernation and resumption.

4. Documentation:
- Provide a detailed document with AWS CLI commands for hibernating and resuming an EC2 instance.
- Include any relevant information such as instance IDs, state changes, etc.

SOLUTION:-

Q2:- 1

root@DESKTOP-VIDGD8F:AWS# aws ec2 run-instances --image-id ami-0d3f444bc76de0a79 --key-name data-key --instance-type t2.micro --security-group-ids sg-01197c3385b3ac6b4 --associate-public-ip-address --hibernation-options Configured=true --block-device-mappings '[{"DeviceName":"/dev/xvda","Ebs":{"VolumeSize":10,"VolumeType":"gp2","Encrypted":true}}]' --tag-specifications 'ResourceType=instance,Tags=[{Key=Name,Value=Hibernet_Instance}]'


```
{
    "Groups": [],
    "Instances": [
        {
            "AmiLaunchIndex": 0,
            "ImageId": "ami-0d3f444bc76de0a79",
            "InstanceId": "i-03202db7f67e32a1c",
            "InstanceType": "t2.micro",
            "KeyName": "data-key",
            "LaunchTime": "2024-01-22T11:27:54.000Z",
            "Monitoring": {
                "State": "disabled"
            },
            "Placement": {
                "AvailabilityZone": "ap-south-1a",
                "GroupName": "",
                "Tenancy": "default"
            },
            "PrivateDnsName": "ip-172-31-17-65.ap-south-1.compute.internal",
            "PrivateIpAddress": "172.31.17.65",
            "ProductCodes": [],
            "PublicDnsName": "",
            "State": {
                "Code": 0,
                "Name": "pending"
            },
            "StateTransitionReason": "",
            "SubnetId": "subnet-0b90326392310b094",
            "VpcId": "vpc-0098cadacafab2e97",
            "Architecture": "x86_64",
```

```
"BlockDeviceMappings": [],
"ClientToken": "bbfbb81b-9551-47ca-98b8-4101928216ed",
"EbsOptimized": false,
"EnaSupport": true,
"Hypervisor": "xen",
"NetworkInterfaces": [
    {
        "Attachment": {
            "AttachTime": "2024-01-22T11:27:54.000Z",
            "AttachmentId": "eni-attach-03e7f7415e87e66d6",
            "DeleteOnTermination": true,
            "DeviceIndex": 0,
            "Status": "attaching",
            "NetworkCardIndex": 0
        },
        "Description": "",
        "Groups": [
            {
                "GroupName": "default",
                "GroupId": "sg-01197c3385b3ac6b4"
            }
        ],
        "Ipv6Addresses": [],
        "MacAddress": "02:cb:ce:96:c4:27",
        "NetworkInterfaceId": "eni-0b8cf26ba901dbdb5",
        "OwnerId": "255851499496",
        "PrivateDnsName": "ip-172-31-17-65.ap-south-1.compute.internal",
        "PrivateIpAddress": "172.31.17.65",
        "PrivateIpAddresses": [
            {
                "Primary": true,
                "PrivateDnsName": "ip-172-31-17-65.ap-south-1.compute.internal",
                "PrivateIpAddress": "172.31.17.65"
            }
        ],
        "SourceDestCheck": true,
        "Status": "in-use",
        "SubnetId": "subnet-0b90326392310b094",
        "VpcId": "vpc-0098cadacafab2e97",
        "InterfaceType": "interface"
    }
],
"RootDeviceName": "/dev/xvda",
"RootDeviceType": "ebs",
"SecurityGroups": [
    {
        "GroupName": "default",
        "GroupId": "sg-01197c3385b3ac6b4"
    }
],
```

```
            "SourceDestCheck": true,
            "StateReason": {
                "Code": "pending",
                "Message": "pending"
            },
            "Tags": [
                {
                    "Key": "Name",
                    "Value": "Hibernet_Instance"
                }
            ],
            "VirtualizationType": "hvm",
            "CpuOptions": {
                "CoreCount": 1,
                "ThreadsPerCore": 1
            },
            "CapacityReservationSpecification": {
                "CapacityReservationPreference": "open"
            },
            "HibernationOptions": {
                "Configured": true
            },
            "MetadataOptions": {
                "State": "pending",
                "HttpTokens": "required",
                "HttpPutResponseHopLimit": 2,
                "HttpEndpoint": "enabled",
                "HttpProtocolIpv6": "disabled",
                "InstanceMetadataTags": "disabled"
            },
            "EnclaveOptions": {
                "Enabled": false
            },
            "BootMode": "uefi-preferred",
            "PrivateDnsNameOptions": {
                "HostnameType": "ip-name",
                "EnableResourceNameDnsARecord": false,
                "EnableResourceNameDnsAAAARecord": false
            }
        }
    ],
    "OwnerId": "255851499496",
    "ReservationId": "r-0b8e69a3603ffede3"
}
```


Q2:- 2

```
root@DESKTOP-VIDGD8F:AWS# aws ec2 stop-instances --instance-ids i-
03202db7f67e32a1c --hibernate
{
```

```
    "StoppingInstances": [
        {
            "CurrentState": {
                "Code": 64,
                "Name": "stopping"
            },
            "InstanceId": "i-03202db7f67e32a1c",
            "PreviousState": {
                "Code": 16,
                "Name": "running"
            }
        }
    ]
}
```


root@DESKTOP-VIDGD8F:AWS# aws ec2 start-instances --instance-ids i-03202db7f67e32a1c


```
{
    "StartingInstances": [
        {
            "CurrentState": {
                "Code": 0,
                "Name": "pending"
            },
            "InstanceId": "i-03202db7f67e32a1c",
            "PreviousState": {
                "Code": 80,
                "Name": "stopped"
            }
        }
    ]
}
```


Q2:- 3

root@DESKTOP-VIDGD8F:AWS# aws ec2 describe-instances --instance-ids i-03202db7f67e32a1c --query 'Reservations[*].Instances[*].[InstanceId,State.Name]'


```
[
    [
        [
            "i-03202db7f67e32a1c",
            "running"
        ]
    ]
]
```