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.

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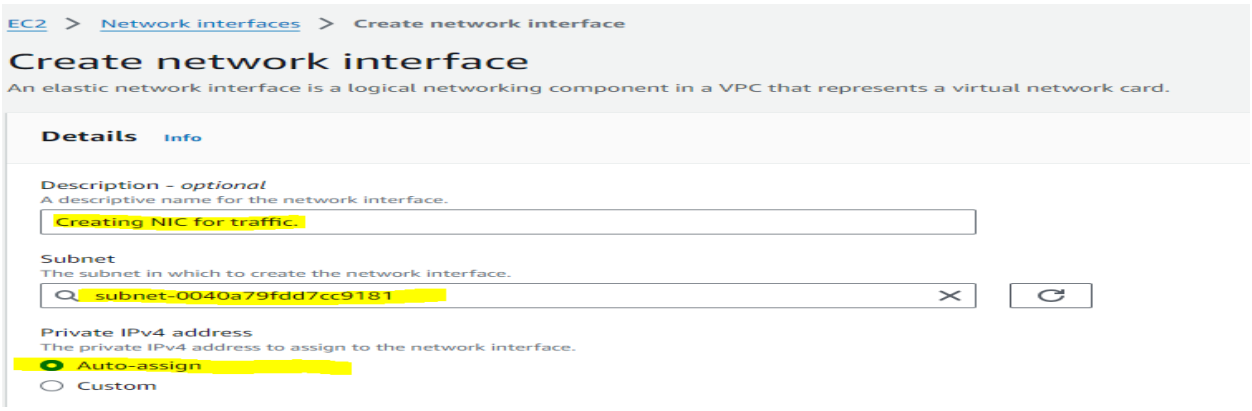
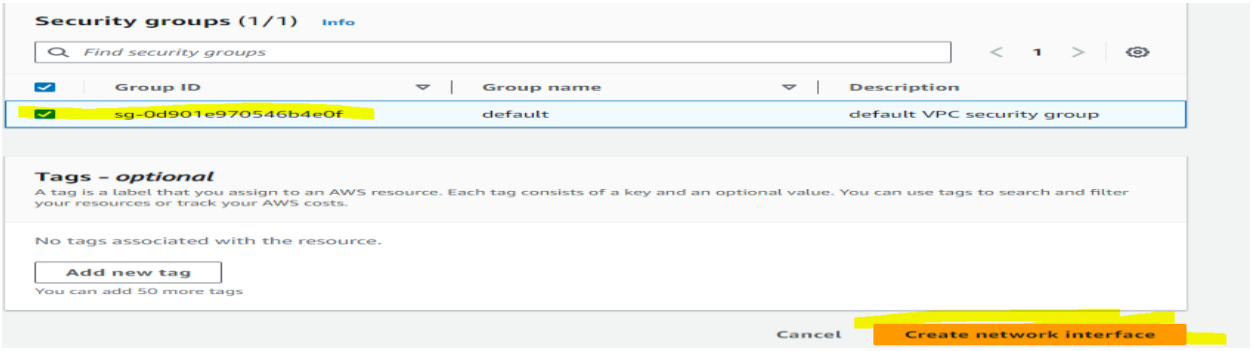
SOLUTIONS :-

- Navigate to the AWS Management Console.:-
- Create a new Network Interface (NIC) in a specific VPC and subnet.

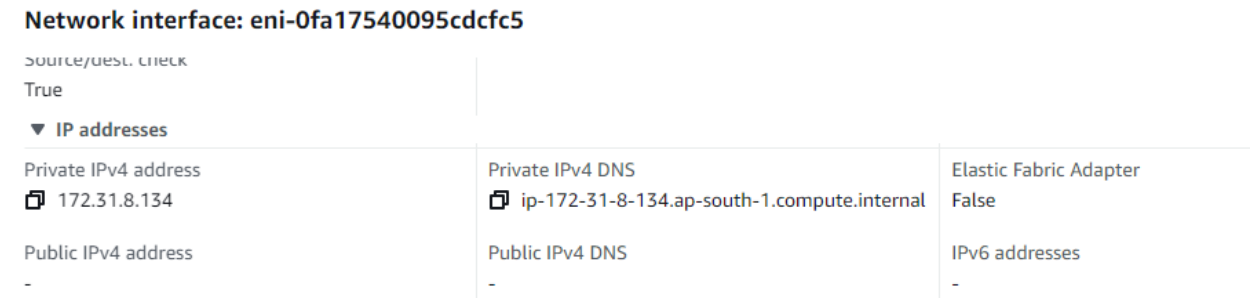
Go to AWS console ➔ EC2 services➔ Network & Security ➔ Network Interfaces.
A page will pop up
click on create network interfaces and fill the required fields:-



Associate the NIC with a security group.:-



- Note down the Private IP address assigned to the NIC.:-



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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.

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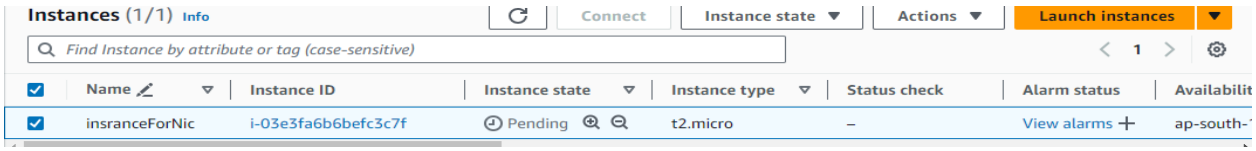
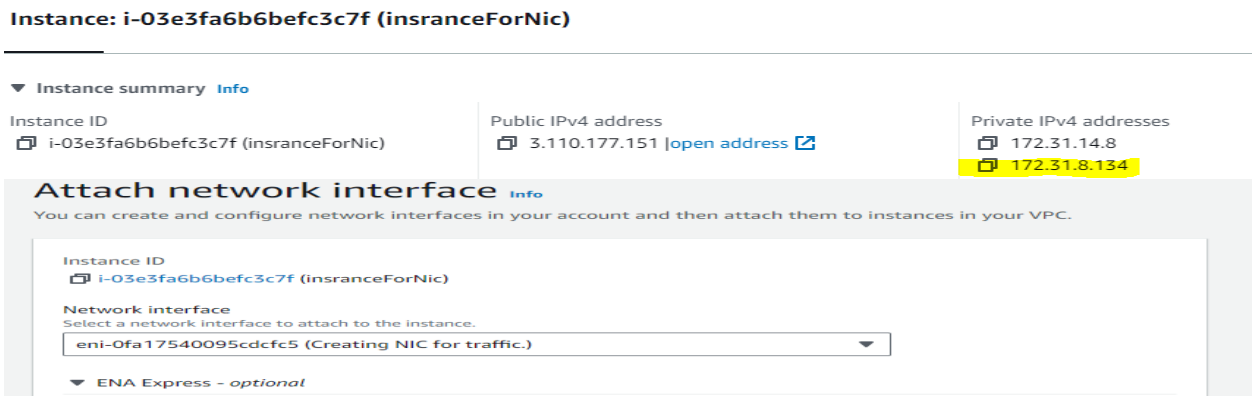
SOLUTIONS :-

- Launch a new EC2 instance using the AWS Management Console.:-



- During the instance launch, associate the previously created NIC with the instance.
Go to instance➔ actions➔network➔attach network interface.



- Confirm that the instance has the expected private IP address.

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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.

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SOLUTIONS :-

- Access the EC2 instance and verify the network interface configuration.

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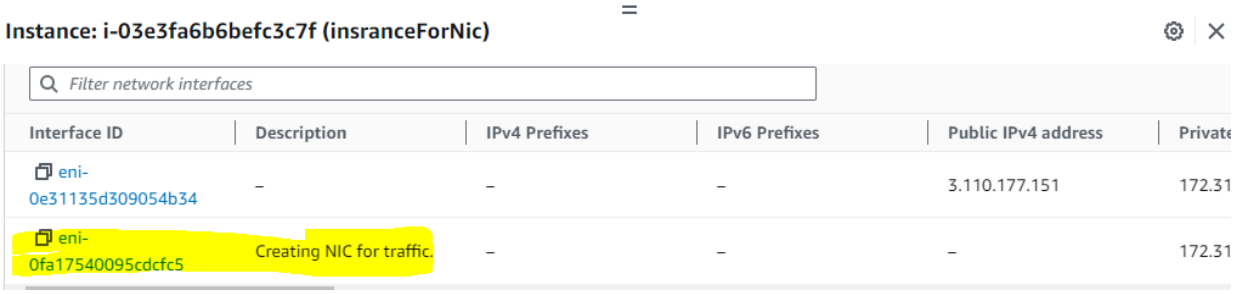

4. Documentation:

- 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.

CLI:

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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.

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SOLUTIONS:-

- Use the AWS CLI to create a new Network Interface (NIC) in a specific VPC and subnet

root@DESKTOP-NJSOG33:AWS# aws ec2 create-network-interface --subnet-id subnet-0040a79fdd7cc9181 --description "Your NIC Description"

--groups sg-0d901e970546b4e0f

{

"NetworkInterface": {

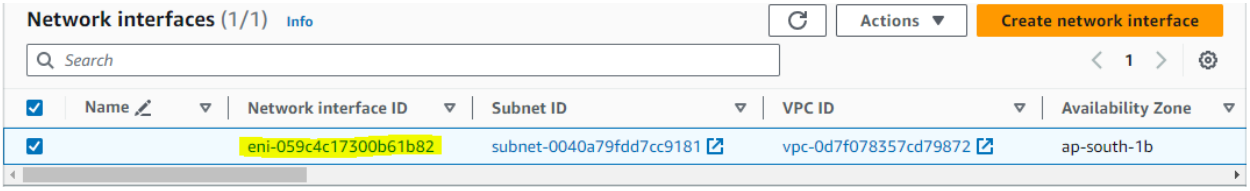
"AvailabilityZone": "ap-south-1b",

"Description": "Your NIC Description",

```
"Groups": [
    {
        "GroupName": "default",
        "GroupId": "sg-0d901e970546b4e0f"
    }
],
"InterfaceType": "interface",
"Ipv6Addresses": [],
"MacAddress": "0a:3e:42:d7:01:0f",
"NetworkInterfaceId": "eni-059c4c17300b61b82",
"OwnerId": "043241213129",
"PrivateDnsName": "ip-172-31-15-236.ap-south-1.compute.internal",
"PrivateIpAddress": "172.31.15.236",
"PrivateIpAddresses": [
    {
        "Primary": true,
        "PrivateDnsName": "ip-172-31-15-236.ap-south-1.compute.internal",
        "PrivateIpAddress": "172.31.15.236"
    }
],
"RequesterManaged": false,
"SourceDestCheck": true,
"Status": "pending",
```

```
        "SubnetId": "subnet-0040a79fdd7cc9181",
        "TagSet": [],
        "VpcId": "vpc-0d7f078357cd79872"
    }
}
```

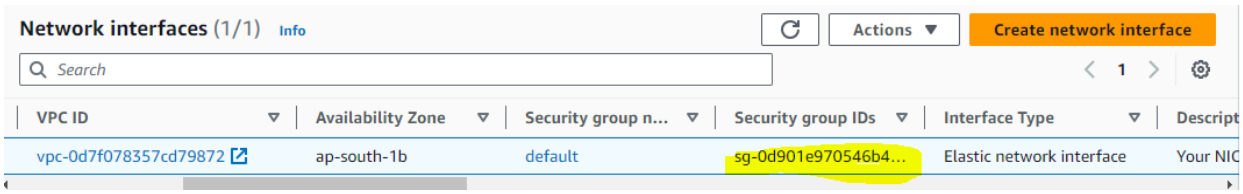
root@DESKTOP-NJSOG33:AWS#



- Associate the NIC with a security group.

aws ec2 modify-network-interface-attribute --network-interface-id eni-059c4c17300b61b82 --groups sg-0d901e9

70546b4e0f



- Note down the Private IP address assigned to the NIC.

root@DESKTOP-NJSOG33:AWS# aws ec2 describe-network-interfaces --network-interface-ids eni-059c4c17300b61b82 --query 'NetworkInterfac

es[0].PrivateIpAddresses[0].PrivateIpAddress' --output text

172.31.15.236

root@DESKTOP-NJSOG33:AWS#

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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.

==========

```
root@DESKTOP-NJSOG33:AWS# aws ec2 run-instances \

  --image-id ami-0d980397a6e8935cd \

  --key-name sim.pem.aws \

  --instance-type t2.micro \

  --network-interfaces "[{\"NetworkInterfaceId\":\"eni-
059c4c17300b61b82\",\"DeviceIndex\":0}]"

{

    "Groups": [],

    "Instances": [

        {

            "AmiLaunchIndex": 0,

            "ImageId": "ami-0d980397a6e8935cd",

            "InstanceId": "i-02b7e9159a1e0bef6",

            "InstanceType": "t2.micro",

            "KeyName": "sim.pem.aws",

            "LaunchTime": "2024-01-20T21:10:17.000Z",

            "Monitoring": {

                "State": "disabled"

            },

            "Placement": {
```

```
    "AvailabilityZone": "ap-south-1b",
    "GroupName": "",
    "Tenancy": "default"
},
"PrivateDnsName": "ip-172-31-15-236.ap-south-1.compute.internal",
"PrivateIpAddress": "172.31.15.236",
"ProductCodes": [],
"PublicDnsName": "",
"State": {
    "Code": 0,
    "Name": "pending"
},
"StateTransitionReason": "",
"SubnetId": "subnet-0040a79fdd7cc9181",
"VpcId": "vpc-0d7f078357cd79872",
"Architecture": "x86_64",
"BlockDeviceMappings": [],
"ClientToken": "a34d7447-cafa-4684-91cc-2953082e4e3f",
"EbsOptimized": false,
"EnaSupport": true,
"Hypervisor": "xen",
"NetworkInterfaces": [
    {
```

```
"Attachment": {
    "AttachTime": "2024-01-20T21:10:17.000Z",
    "AttachmentId": "eni-attach-055fc4bc9246c8c51",
    "DeleteOnTermination": false,
    "DeviceIndex": 0,
    "Status": "attaching",
    "NetworkCardIndex": 0
},
"Description": "Your NIC Description",
"Groups": [
    {
        "GroupId": "sg-0d901e970546b4e0f"
    }
],
"Ipv6Addresses": [],
"MacAddress": "0a:3e:42:d7:01:0f",
"NetworkInterfaceId": "eni-059c4c17300b61b82",
"OwnerId": "043241213129",
"PrivateDnsName": "ip-172-31-15-236.ap-south-1.compute.internal",
"PrivateIpAddress": "172.31.15.236",
"PrivateIpAddresses": [
    {
        "Primary": true,
```

```
            "PrivateDnsName": "ip-172-31-15-236.ap-south-1.compute.internal",
            "PrivateIpAddress": "172.31.15.236"
          }
        ],
        "SourceDestCheck": true,
        "Status": "in-use",
        "SubnetId": "subnet-0040a79fdd7cc9181",
        "VpcId": "vpc-0d7f078357cd79872",
        "InterfaceType": "interface"
    }
],
"RootDeviceName": "/dev/xvda",
"RootDeviceType": "ebs",
"SecurityGroups": [
    {
        "GroupId": "sg-0d901e970546b4e0f"
    }
],
"SourceDestCheck": true,
"StateReason": {
    "Code": "pending",
    "Message": "pending"
},
```

```
"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,
```

- **Confirm that the instance has the expected private IP address**.

root@DESKTOP-NJSOG33:AWS# aws ec2 describe-instances --instance-ids i-02b7e9159a1e0bef6 --query 'Reservations[0].Instances[0].Private

IpAddress' --output text

172.31.15.236

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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.

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172.31.15.236

root@DESKTOP-NJSOG33:AWS# aws ec2 describe-network-interfaces --network-interface-ids eni-059c4c17300b61b82


```
{
    "NetworkInterfaces": [
        {
            "Association": {
                "IpOwnerId": "amazon",
                "PublicDnsName": "ec2-13-127-10-237.ap-south-1.compute.amazonaws.com",
                "PublicIp": "13.127.10.237"
            },
            "Attachment": {
                "AttachTime": "2024-01-20T21:10:17.000Z",
                "AttachmentId": "eni-attach-055fc4bc9246c8c51",
                "DeleteOnTermination": false,
```

```
    "DeviceIndex": 0,
    "NetworkCardIndex": 0,
    "InstanceId": "i-02b7e9159a1e0bef6",
    "InstanceOwnerId": "043241213129",
    "Status": "attached"
},
"AvailabilityZone": "ap-south-1b",
"Description": "Your NIC Description",
"Groups": [
    {
        "GroupName": "default",
        "GroupId": "sg-0d901e970546b4e0f"
    }
],
"InterfaceType": "interface",
"Ipv6Addresses": [],
"MacAddress": "0a:3e:42:d7:01:0f",
"NetworkInterfaceId": "eni-059c4c17300b61b82",
"OwnerId": "043241213129",
"PrivateDnsName": "ip-172-31-15-236.ap-south-1.compute.internal",
"PrivateIpAddress": "172.31.15.236",
"PrivateIpAddresses": [
    {
```

```
            "Association": {
                "IpOwnerId": "amazon",
                "PublicDnsName": "ec2-13-127-10-237.ap-south-1.compute.amazonaws.com",
                "PublicIp": "13.127.10.237"
            },
            "Primary": true,
            "PrivateDnsName": "ip-172-31-15-236.ap-south-1.compute.internal",
            "PrivateIpAddress": "172.31.15.236"
        }
    ],
    "RequesterManaged": false,
    "SourceDestCheck": true,
    "Status": "in-use",
    "SubnetId": "subnet-0040a79fdd7cc9181",
    "TagSet": [],
    "VpcId": "vpc-0d7f078357cd79872"
  }
 ]
}
root@DESKTOP-NJSOG33:AWS#
```


Confirm the network interface configuration:-

root@DESKTOP-NJSOG33:AWS# aws ec2 describe-instances --instance-ids i-02b7e9159a1e0bef6

```
{
    "Reservations": [
        {
            "Groups": [],
            "Instances": [
                {
                    "AmiLaunchIndex": 0,
                    "ImageId": "ami-0d980397a6e8935cd",
                    "InstanceId": "i-02b7e9159a1e0bef6",
                    "InstanceType": "t2.micro",
                    "KeyName": "sim.pem.aws",
                    "LaunchTime": "2024-01-20T21:10:17.000Z",
                    "Monitoring": {
                        "State": "disabled"
                    },
                    "Placement": {
                        "AvailabilityZone": "ap-south-1b",
                        "GroupName": "",
                        "Tenancy": "default"
                    },
                    "PrivateDnsName": "ip-172-31-15-236.ap-south-1.compute.internal",
                    "PrivateIpAddress": "172.31.15.236",
                    "ProductCodes": [],
```

```
"PublicDnsName": "ec2-13-127-10-237.ap-south-1.compute.amazonaws.com",
"PublicIpAddress": "13.127.10.237",
"State": {
   "Code": 16,
   "Name": "running"
},
"StateTransitionReason": "",
"SubnetId": "subnet-0040a79fdd7cc9181",
"VpcId": "vpc-0d7f078357cd79872",
"Architecture": "x86_64",
"BlockDeviceMappings": [
   {
      "DeviceName": "/dev/xvda",
      "Ebs": {
         "AttachTime": "2024-01-20T21:10:18.000Z",
         "DeleteOnTermination": true,
         "Status": "attached",
         "VolumeId": "vol-01bc3575cbda42274"
      }
   }
],
"ClientToken": "a34d7447-cafa-4684-91cc-2953082e4e3f",
"EbsOptimized": false,
```

```
            "EnaSupport": true,
            "Hypervisor": "xen",
            "NetworkInterfaces": [
              {
                "Association": {
                  "IpOwnerId": "amazon",
                  "PublicDnsName": "ec2-13-127-10-237.ap-south-
1.compute.amazonaws.com",
                  "PublicIp": "13.127.10.237"
                },
                "Attachment": {
                  "AttachTime": "2024-01-20T21:10:17.000Z",
                  "AttachmentId": "eni-attach-055fc4bc9246c8c51",
                  "DeleteOnTermination": false,
                  "DeviceIndex": 0,
                  "Status": "attached",
                  "NetworkCardIndex": 0
                },
                "Description": "Your NIC Description",
                "Groups": [
                  {
                    "GroupName": "default",
                    "GroupId": "sg-0d901e970546b4e0f"
                  }
```

```
                    ],
                    "Ipv6Addresses": [],
                    "MacAddress": "0a:3e:42:d7:01:0f",
                    "NetworkInterfaceId": "eni-059c4c17300b61b82",
                    "OwnerId": "043241213129",
                    "PrivateDnsName": "ip-172-31-15-236.ap-south-1.compute.internal",
                    "PrivateIpAddress": "172.31.15.236",
                    "PrivateIpAddresses": [
                      {
                        "Association": {
                          "IpOwnerId": "amazon",
                          "PublicDnsName": "ec2-13-127-10-237.ap-south-
1.compute.amazonaws.com",
                          "PublicIp": "13.127.10.237"
                        },
                        "Primary": true,
                        "PrivateDnsName": "ip-172-31-15-236.ap-south-1.compute.internal",
                        "PrivateIpAddress": "172.31.15.236"
                      }
                    ],
                    "SourceDestCheck": true,
                    "Status": "in-use",
                    "SubnetId": "subnet-0040a79fdd7cc9181",
                    "VpcId": "vpc-0d7f078357cd79872",
```

```
        "InterfaceType": "interface"
    }
],
"RootDeviceName": "/dev/xvda",
"RootDeviceType": "ebs",
"SecurityGroups": [
    {
        "GroupName": "default",
        "GroupId": "sg-0d901e970546b4e0f"
    }
],
"SourceDestCheck": true,
"VirtualizationType": "hvm",
"CpuOptions": {
    "CoreCount": 1,
    "ThreadsPerCore": 1
},
"CapacityReservationSpecification": {
    "CapacityReservationPreference": "open"
},
"HibernationOptions": {
    "Configured": false
},
```

```
        "MetadataOptions": {
            "State": "applied",
            "HttpTokens": "required",
            "HttpPutResponseHopLimit": 2,
            "HttpEndpoint": "enabled",
            "HttpProtocolIpv6": "disabled",
            "InstanceMetadataTags": "disabled"
        },
        "EnclaveOptions": {
            "Enabled": false
        },
        "BootMode": "uefi-preferred",
        "PlatformDetails": "Linux/UNIX",
        "UsageOperation": "RunInstances",
        "UsageOperationUpdateTime": "2024-01-20T21:10:17.000Z",
        "PrivateDnsNameOptions": {
            "HostnameType": "ip-name",
            "EnableResourceNameDnsARecord": false,
            "EnableResourceNameDnsAAAARecord": false
        }
    }
],
"OwnerId": "043241213129",
```

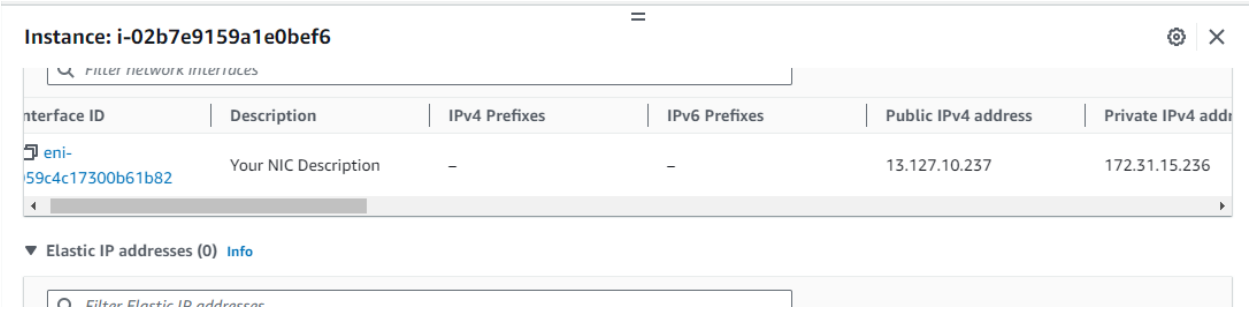
"ReservationId": "r-074e92661186bc930"

}

]

}

root@DESKTOP-NJSOG33:AWS#



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.

==========

QUESTION NO: 01

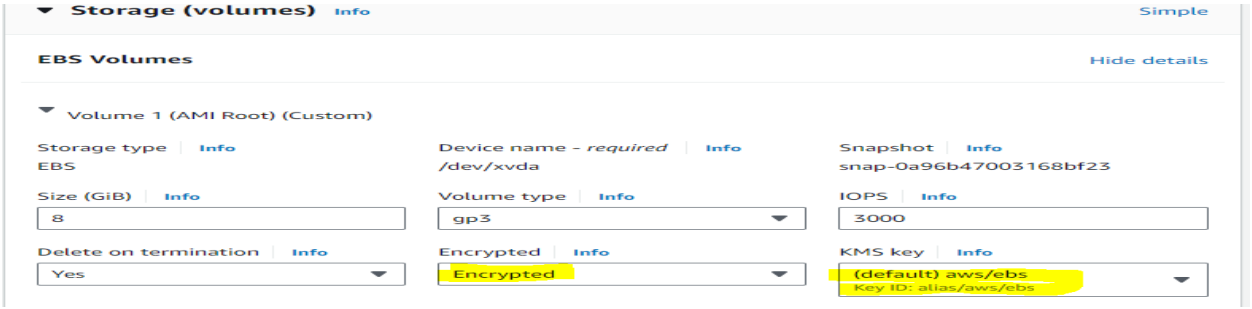
Hibernate Instance
Console:

1. Hibernate EC2 Instance on Console:

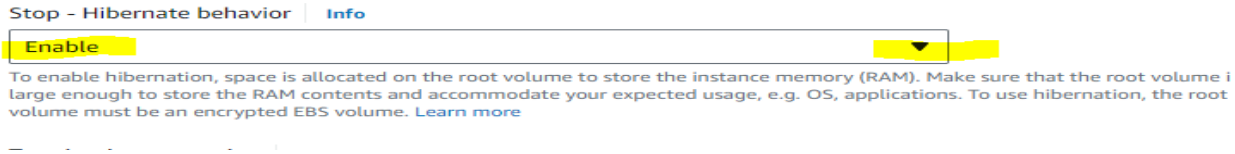
- Launch a new EC2 instance using the AWS Management Console.
- Access the console to hibernate the running instance.
- Confirm the status change to "hibernating."

==========

SOLUTION:-
Going through usual instance launch do two changes:
A) under ‘storage’ EBS volume make the changes that has been highlighted below :-



B) Under 'Advance details' section towards the end "enabling the Hibernate behavior" as shown below:-



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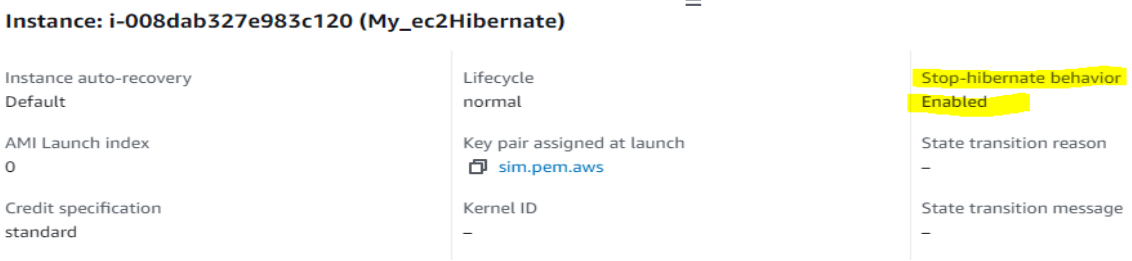
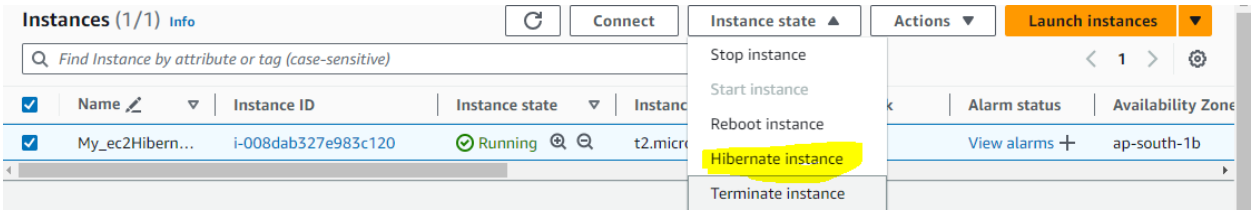


- Access the console to hibernate the running instance.

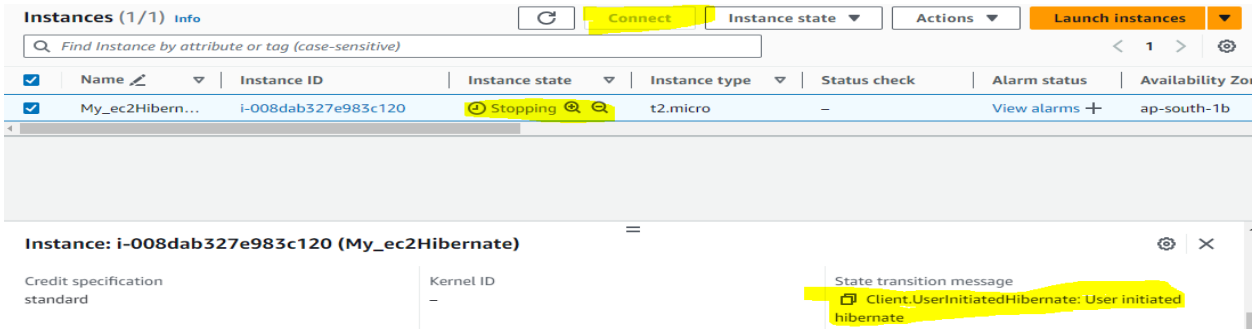
Click on hibernate.

NOTE:- before hibernating try connect➔connect using ec2➔and on console run the command <uptime>.
it will show you since when the instance is up and after hibernating, if you resume the hibernate and restart the instance and use the same process to SSH as in connect and again running the <uptime> command , you will realize that the instance was not stopped it was up from first go only.



After hibernating:-

- Confirm the status change to "hibernating."



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2. Resume Hibernated EC2 Instance:

- Resume the hibernated instance using the console.
- Confirm the instance state changes to "running."

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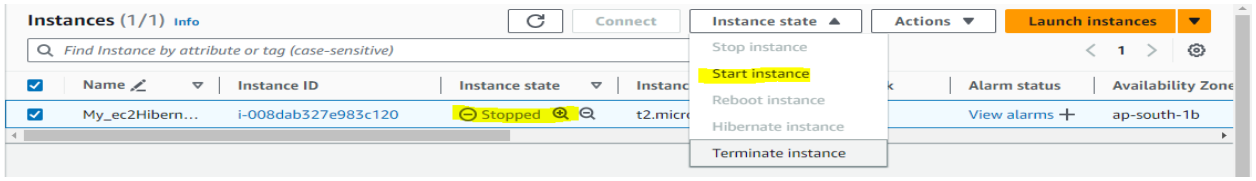
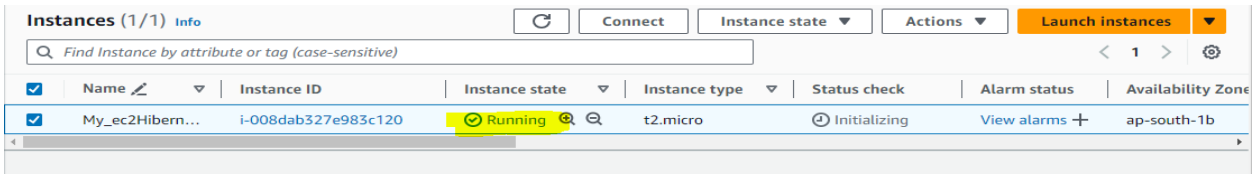
SOLUTION:-





3. Verify Instance State:

- Check the instance state using the console to ensure successful hibernation and resumption.

The solution lies in the above screenshots only.

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.

==========

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."

==========

ume must be encrypted.

```
root@DESKTOP-NJSOG33:AWS# aws ec2 run-instances \

  --image-id ami-0d980397a6e8935cd \

  --instance-type t2.micro \

  --key-name sim.pem.aws \

  --subnet-id subnet-0040a79fdd7cc9181 \

  --hibernation-options Configured=true \

  --block-device-mappings
"[{\"DeviceName\":\"/dev/xvda\",\"Ebs\":{\"VolumeSize\":8,\"VolumeType\":\"gp2\",\"Encrypte
d\":true}}]"

{

    "Groups": [],

    "Instances": [
```

```
{
    "AmiLaunchIndex": 0,
    "ImageId": "ami-0d980397a6e8935cd",
    "InstanceId": "i-0e8f87c31a6efab63",
    "InstanceType": "t2.micro",
    "KeyName": "sim.pem.aws",
    "LaunchTime": "2024-01-21T18:45:59.000Z",
    "Monitoring": {
        "State": "disabled"
    },
    "Placement": {
        "AvailabilityZone": "ap-south-1b",
        "GroupName": "",
        "Tenancy": "default"
    },
    "PrivateDnsName": "ip-172-31-3-224.ap-south-1.compute.internal",
    "PrivateIpAddress": "172.31.3.224",
    "ProductCodes": [],
    "PublicDnsName": "",
    "State": {
        "Code": 0,
        "Name": "pending"
    },
```

```
"StateTransitionReason": "",
"SubnetId": "subnet-0040a79fdd7cc9181",
"VpcId": "vpc-0d7f078357cd79872",
"Architecture": "x86_64",
"BlockDeviceMappings": [],
"ClientToken": "35f489a0-e9bf-402c-afae-b16b2634556d",
"EbsOptimized": false,
"EnaSupport": true,
"Hypervisor": "xen",
"NetworkInterfaces": [
    {
        "Attachment": {
            "AttachTime": "2024-01-21T18:45:59.000Z",
            "AttachmentId": "eni-attach-0da2f6c6f296bbec5",
            "DeleteOnTermination": true,
            "DeviceIndex": 0,
            "Status": "attaching",
            "NetworkCardIndex": 0
        },
        "Description": "",
        "Groups": [
            {
                "GroupName": "default",
```

```
            "GroupId": "sg-0d901e970546b4e0f"
        }
      ],
      "Ipv6Addresses": [],
      "MacAddress": "0a:10:b2:2e:db:1f",
      "NetworkInterfaceId": "eni-006612af6f9ae7988",
      "OwnerId": "043241213129",
      "PrivateDnsName": "ip-172-31-3-224.ap-south-1.compute.internal",
      "PrivateIpAddress": "172.31.3.224",
      "PrivateIpAddresses": [
        {
          "Primary": true,
          "PrivateDnsName": "ip-172-31-3-224.ap-south-1.compute.internal",
          "PrivateIpAddress": "172.31.3.224"
        }
      ],
      "SourceDestCheck": true,
      "Status": "in-use",
      "SubnetId": "subnet-0040a79fdd7cc9181",
      "VpcId": "vpc-0d7f078357cd79872",
      "InterfaceType": "interface"
    }
  ],
```

```
"RootDeviceName": "/dev/xvda",
"RootDeviceType": "ebs",
"SecurityGroups": [
    {
        "GroupName": "default",
        "GroupId": "sg-0d901e970546b4e0f"
    }
],
"SourceDestCheck": true,
"StateReason": {
    "Code": "pending",
    "Message": "pending"
},
"VirtualizationType": "hvm",
"CpuOptions": {
    "CoreCount": 1,
    "ThreadsPerCore": 1
},
"CapacityReservationSpecification": {
    "CapacityReservationPreference": "open"
},
"HibernationOptions": {
    "Configured": true
```

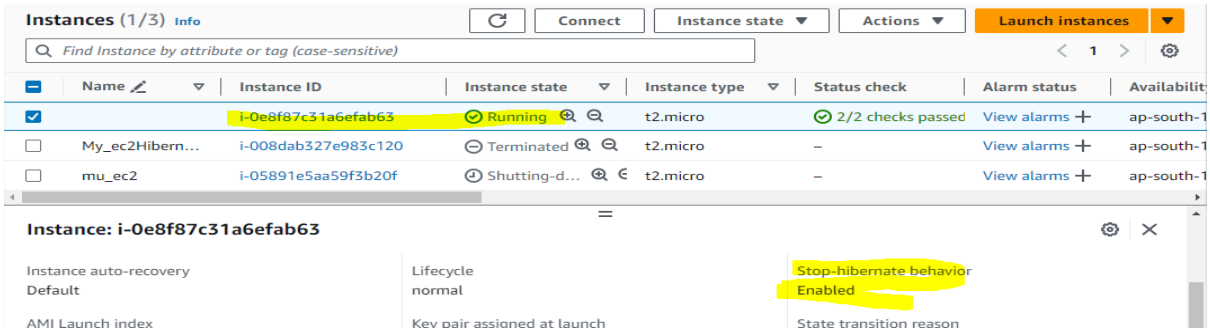
```
            },
            "MetadataOptions": {
                "State": "pending",
                "HttpTokens": "required",
                "HttpPutResponseHopLimit": 2,
                "HttpEndpoint": "enabled",
                "HttpProtocolIpv6": "disabled",
                "InstanceMetadataTags": "disabled"
            },
            "EnclaveOptions": {
                "Enabled": false
            },
            "BootMode": "uefi-preferred",
            "PrivateDnsNameOptions": {
                "HostnameType": "ip-name",
                "EnableResourceNameDnsARecord": false,
                "EnableResourceNameDnsAAAARecord": false
            }
        }
    ],
    "OwnerId": "043241213129",
    "ReservationId": "r-0c9bc67b531009e5b"
}
```

- root@DESKTOP-NJSOG33:AWS#

  NOTES:-

  `--block-device-mappings`: Specifies the block device mapping for the instance.

- `DeviceName":"/dev/xvda"`: Refers to the root device volume.
- `Ebs`: Specifies the properties of the EBS volume.
- `VolumeSize`: Specifies the size of the root volume in gibibytes.
- `VolumeType`: Specifies the volume type (in this case, `gp2` for General Purpose SSD).
- `Encrypted`: Specifies that the root volume should be encrypted.



SOLUTION:-

root@DESKTOP-NJSOG33:AWS# aws ec2 stop-instances --instance-ids i-0e8f87c31a6efab63 --hibernate


```
{
    "StoppingInstances": [
        {
            "CurrentState": {
                "Code": 64,
                "Name": "stopping"
            },
            "InstanceId": "i-0e8f87c31a6efab63",
            "PreviousState": {
```

```
            "Code": 16,
            "Name": "running"
        }
    }
  ]
}
```

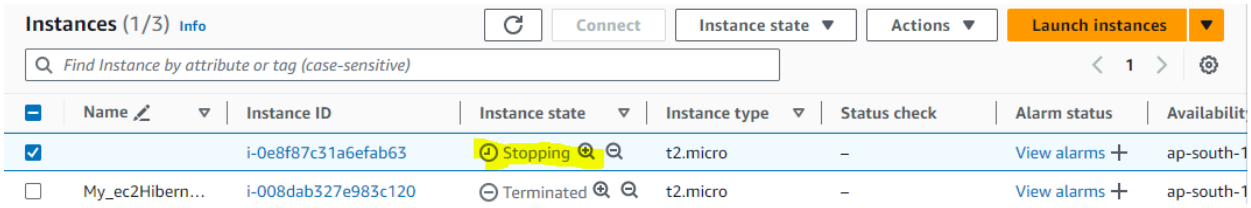

root@DESKTOP-NJSOG33:AWS#

root@DESKTOP-NJSOG33:AWS# aws ec2 start-instances --instance-ids i-0e8f87c31a6efab63


```
{
  "StartingInstances": [
    {
      "CurrentState": {
        "Code": 0,
        "Name": "pending"
      },
      "InstanceId": "i-0e8f87c31a6efab63",
      "PreviousState": {
        "Code": 80,
        "Name": "stopped"
      }
    }
  ]
```

}

root@DESKTOP-NJSOG33:AWS#



==========

2. Resume Hibernated EC2 Instance using AWS CLI:

- Use the AWS CLI to resume the hibernated instance.
- Confirm the instance state changes to "running."

==========

root@DESKTOP-NJSOG33:AWS# aws ec2 describe-instances --instance-ids i-0e8f87c31a6efab63 --query 'Reservations[*].Instances[*].[Instan

ceId,State.Name]'

```
[
    [
        [
            "i-0e8f87c31a6efab63",
            "running"
        ]
    ]
]
```

root@DESKTOP-NJSOG33:AWS#

==========

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

==========

```
root@DESKTOP-NJSOG33:AWS# aws ec2 describe-instances --instance-ids i-0e8f87c31a6efab63 --query 'Reservations[*].Instances[*].[Instan

ceId,State.Name]'

[

    [

        [

            "i-0e8f87c31a6efab63",

            "running"

        ]

    ]

]

root@DESKTOP-NJSOG33:AWS#
```

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.