

AWS HANDS ON LAB -04

Console

1. Create Launch Template on Console:
 - Navigate to the EC2 dashboard on the AWS Management Console.
 - Create a launch template named "WebServerTemplate."
 - Specify configurations such as instance type, key pair, and any additional settings.
2. Launch Instance Using Launch Template:
 - Use the launch template "WebServerTemplate" to launch an EC2 instance.
 - Verify the successful launch of the instance.
3. Modify Launch Template:
 - Modify the launch template to change the instance type or any other parameter.
 - Use the modified template to launch another instance.
4. Documentation:
 - Provide a step-by-step guide with screenshots for creating, launching, and modifying instances using the launch template.
 - Include outputs or confirmation messages from the console.

EC2 > Launch templates > Create launch template

Create launch template

Creating a launch template allows you to create a saved instance configuration that can be reused, shared and launched at a later time. Templates can have multiple versions.

Launch template name and description

Launch template name - *required*

Must be unique to this account. Max 128 chars. No spaces or special characters like '&', "'", '@'.

Template version description

Max 255 chars

Auto Scaling guidance [Info](#)

Select this if you intend to use this template with EC2 Auto Scaling

☒ Provide guidance to help me set up a template that I can use with EC2 Auto Scaling

Summary

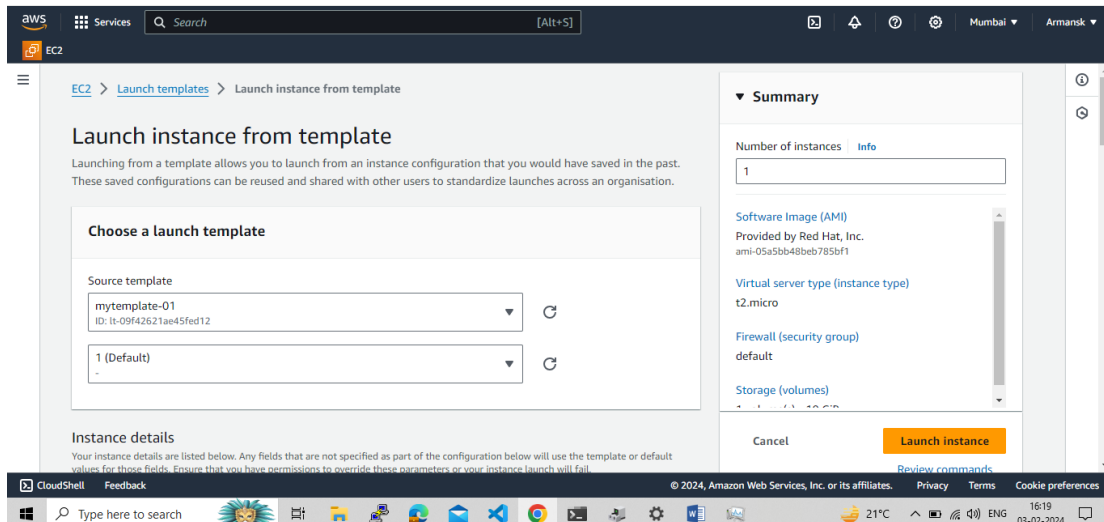
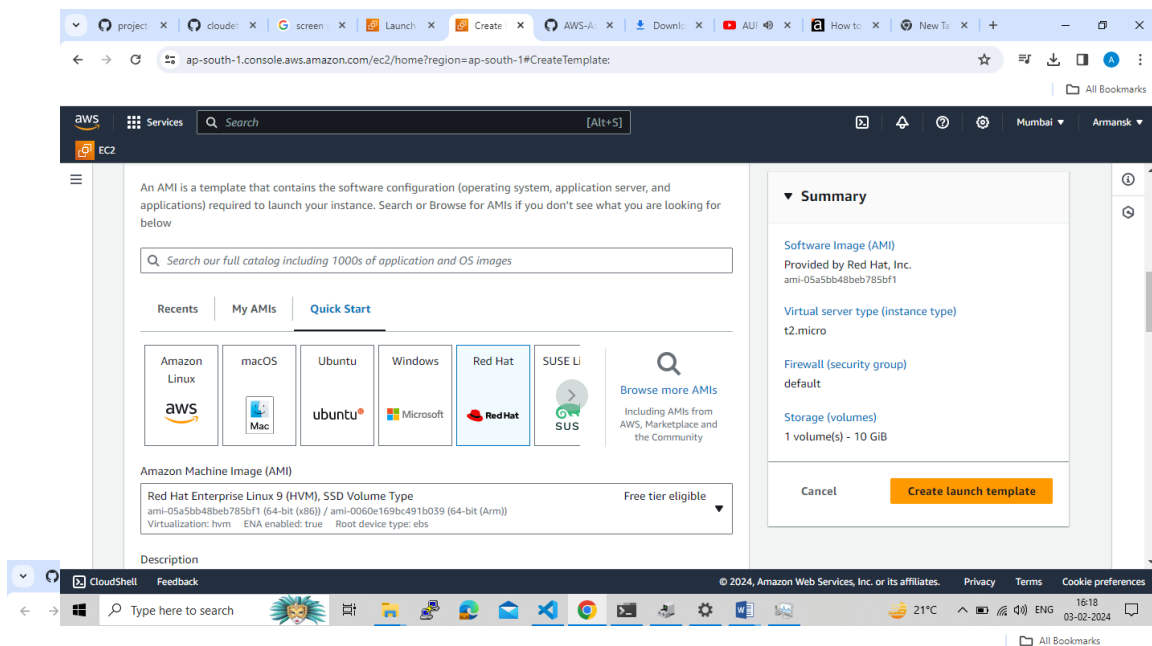
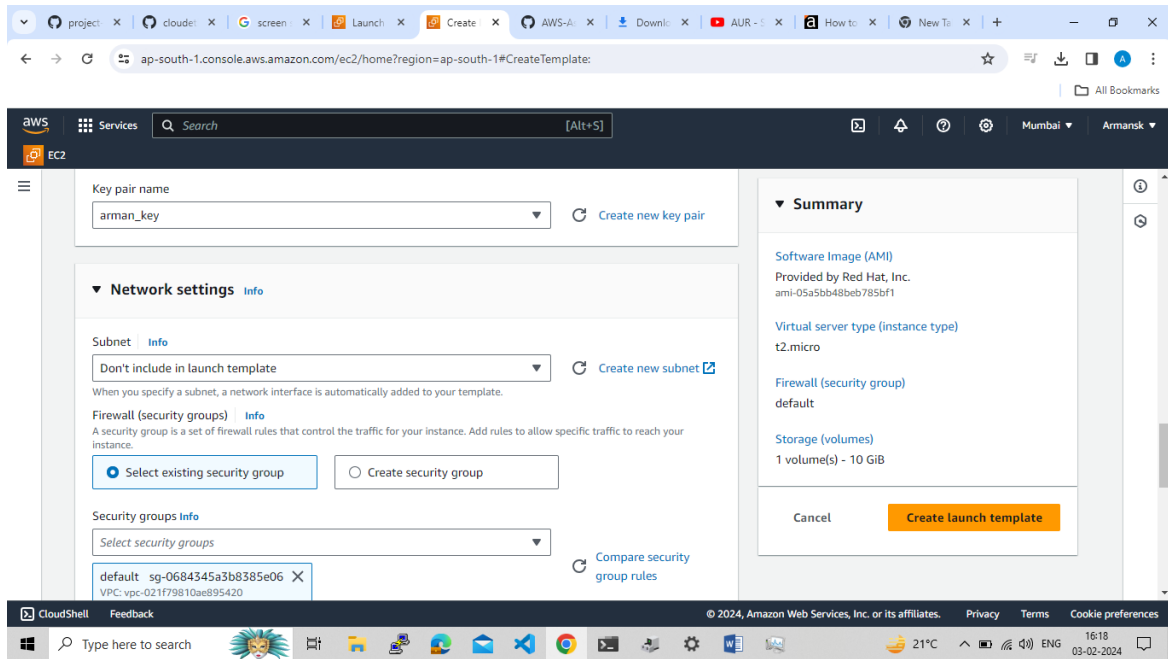
Software Image (AMI)
Provided by Red Hat, Inc.
ami-05a5bb48beb785bf1

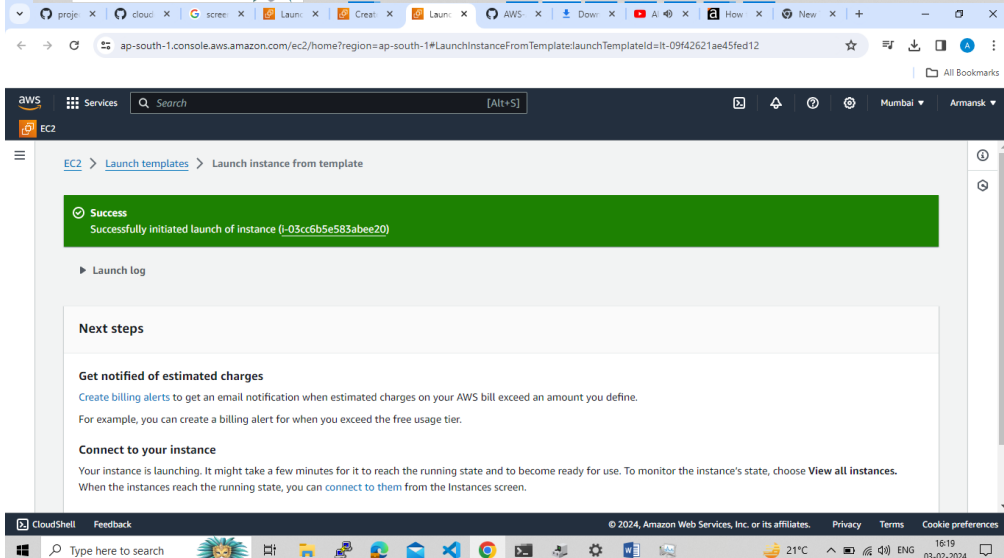
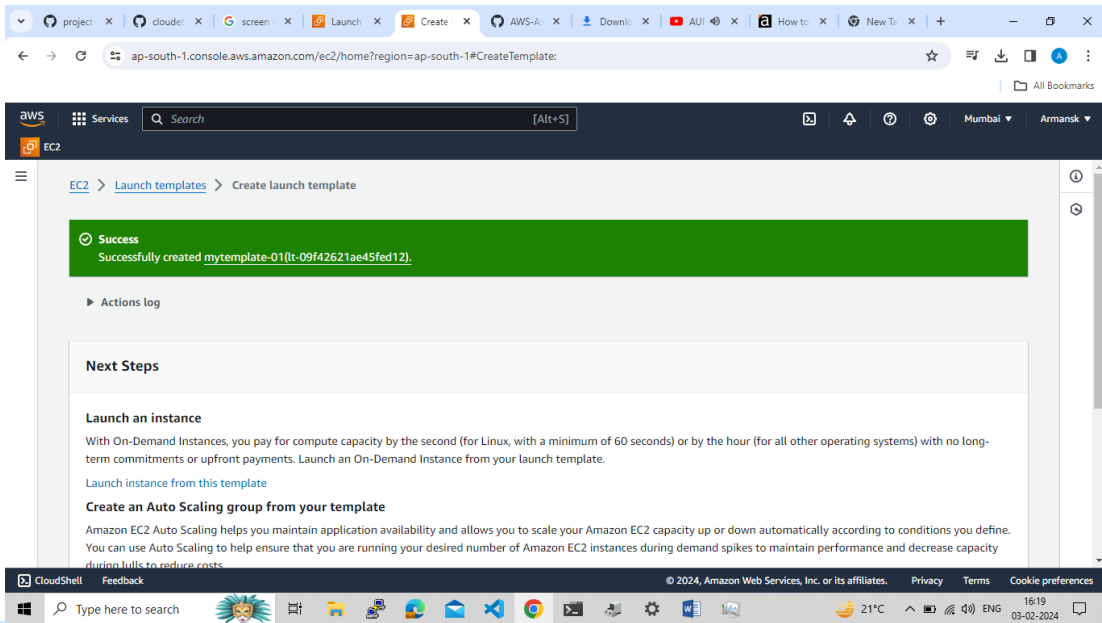
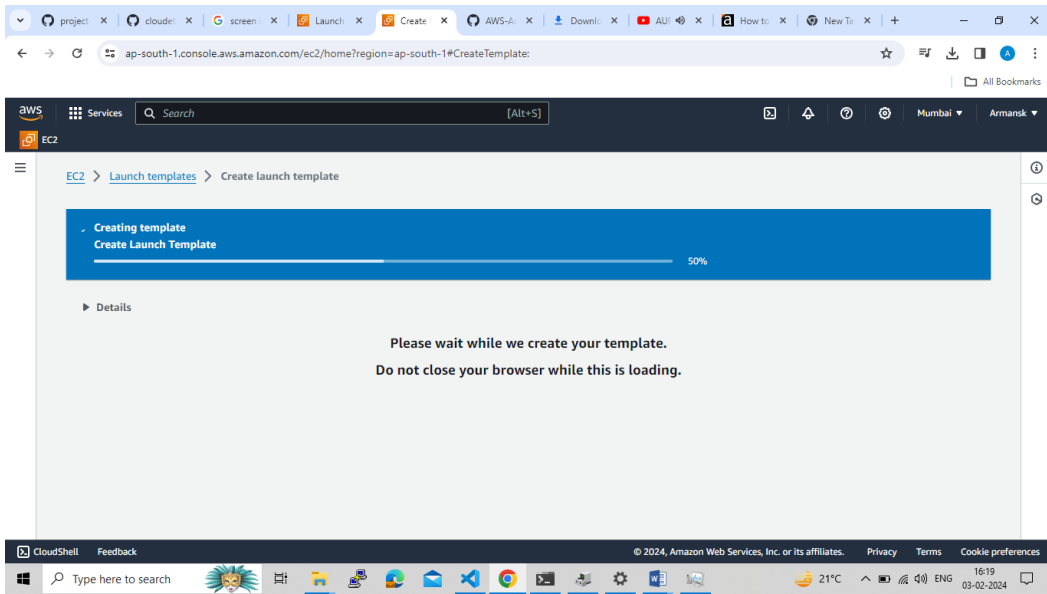
Virtual server type (instance type)
t2.micro

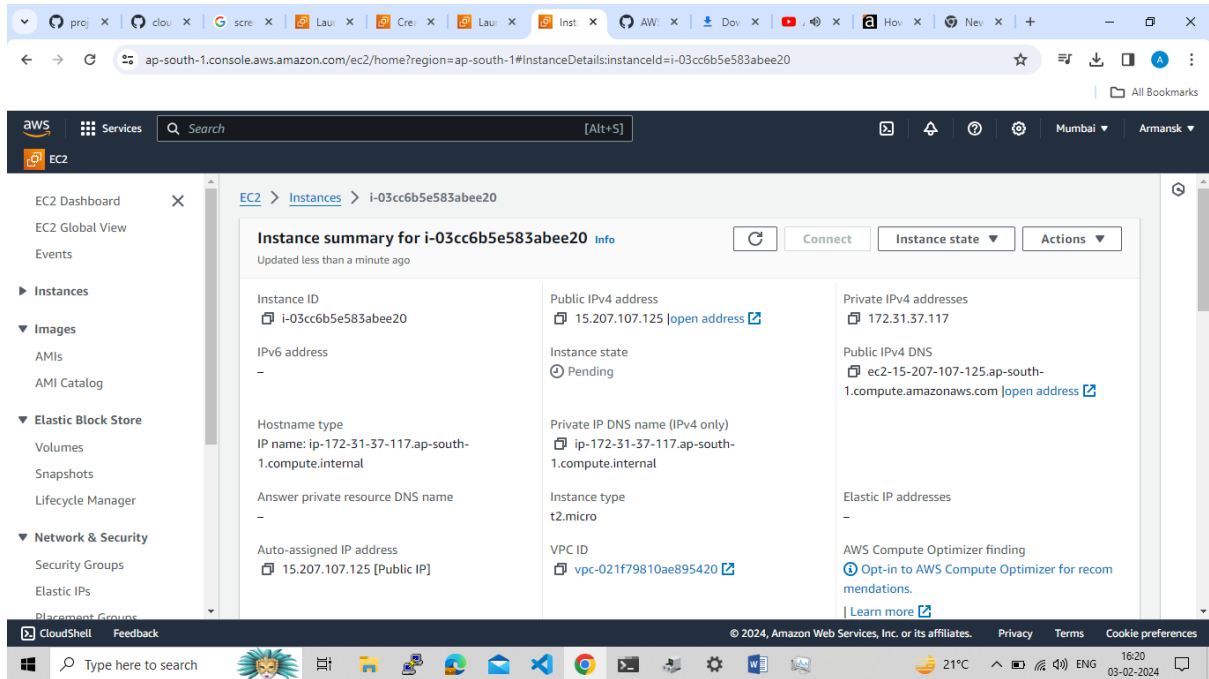
Firewall (security group)
default

Storage (volumes)
1 volume(s) - 10 GiB

Cancel **Create launch template**







```
root@DESKTOP-0ANCI6F:~# aws ec2 create-launch-template --launch-template-name mytemplate --version-description version1 --launch-template-data '{"NetworkInterfaces":[{"AssociatePublicIpAddress":true,"DeviceIndex":0,"SubnetId":"subnet-04b2f5518f2e3ad65"}],"ImageId":"ami-0d3f444bc76de0a79","InstanceType":"t2.micro","TagSpecifications":[{"ResourceType":"instance","Tags":[{"Key":"purpose","Value":"webserver"}]}]}'
```

```
{
  "LaunchTemplate": {
    "LaunchTemplateId": "lt-03796f71d10754cea",
    "LaunchTemplateName": "mytemplate",
    "CreateTime": "2024-01-18T10:02:19.000Z",
    "CreatedBy": "arn:aws:iam::842313196830:user/Arman",
    "DefaultVersionNumber": 1,
    "LatestVersionNumber": 1
  }
}
```

```
root@DESKTOP-0ANCI6F:~# aws ec2 run-instances --launch-template LaunchTemplateName=mytemplate
```

```
{
  "Groups": [],
  "Instances": [
    {
      "AmiLaunchIndex": 0,
      "ImageId": "ami-0d3f444bc76de0a79",
      "InstanceId": "i-088e9a99293feb10c",
      "InstanceType": "t2.micro",
      "LaunchTime": "2024-01-18T10:03:55.000Z",
      "Monitoring": {
        "State": "disabled"
      }
    }
  ]
}
```

```
},
  "Placement": {
    "AvailabilityZone": "ap-south-1a",
    "GroupName": "",
    "Tenancy": "default"
  },
  "PrivateDnsName": "ip-172-31-38-28.ap-south-1.compute.internal",
  "PrivateIpAddress": "172.31.38.28",
  "ProductCodes": [],
  "PublicDnsName": "",
  "State": {
    "Code": 0,
    "Name": "pending"
  },
  "StateTransitionReason": "",
  "SubnetId": "subnet-04b2f5518f2e3ad65",
  "VpcId": "vpc-03c7f996950265179",
  "Architecture": "x86_64",
  "BlockDeviceMappings": [],
  "ClientToken": "ad67dc77-9ff9-4e53-81e7-a14fcb63e491",
  "EbsOptimized": false,
  "EnaSupport": true,
  "Hypervisor": "xen",
  "NetworkInterfaces": [
    {
      "Attachment": {
        "AttachTime": "2024-01-18T10:03:55.000Z",
        "AttachmentId": "eni-attach-05f7166be6ac8019f",
        "DeleteOnTermination": true,
        "DeviceIndex": 0,
        "Status": "attaching",
        "NetworkCardIndex": 0
      },
      "Description": "",
      "Groups": [
        {
          "GroupName": "default",
          "GroupId": "sg-0f2f43ec49dbd5e51"
        }
      ],
      "Ipv6Addresses": [],
      "MacAddress": "02:57:5d:1b:82:59",
      "NetworkInterfaceId": "eni-07d99e69ad37cb6fb",
      "OwnerId": "842313196830",
      "PrivateDnsName": "ip-172-31-38-28.ap-south-1.compute.internal",
      "PrivateIpAddress": "172.31.38.28",
      "PrivateIpAddresses": [
```

```

{
    "Primary": true,
    "PrivateDnsName": "ip-172-31-38-28.ap-south-1.compute.internal",
    "PrivateIpAddress": "172.31.38.28"
  },
  "SourceDestCheck": true,
  "Status": "in-use",
  "SubnetId": "subnet-04b2f5518f2e3ad65",
  "VpcId": "vpc-03c7f996950265179",
  "InterfaceType": "interface"
},
"RootDeviceName": "/dev/xvda",
"RootDeviceType": "ebs",
"SecurityGroups": [
  {
    "GroupName": "default",
    "GroupId": "sg-0f2f43ec49dbd5e51"
  }
],
"SourceDestCheck": true,
"StateReason": {
  "Code": "pending",
  "Message": "pending"
},
"Tags": [
  {
    "Key": "purpose",
    "Value": "webserver"
  },
  {
    "Key": "aws:ec2launchtemplate:id",
    "Value": "lt-03796f71d10754cea"
  },
  {
    "Key": "aws:ec2launchtemplate:version",
    "Value": "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": "842313196830",
  "ReservationId": "r-022e2cc4b2ec29ce4"
}

```

```

root@DESKTOP-0ANCI6F:~# aws ec2 create-launch-template-version --launch-
template-name mytemplate --version-description "version 2" --source-version 1 --
launch-template-data '{"InstanceType": "t2.medium"}'
{

```

```

  "LaunchTemplateVersion": {
    "LaunchTemplateId": "lt-03796f71d10754cea",
    "LaunchTemplateName": "mytemplate",
    "VersionNumber": 2,
    "VersionDescription": "version 2",
    "CreateTime": "2024-01-18T10:05:16.000Z",
    "CreatedBy": "arn:aws:iam::842313196830:user/Arman",
    "DefaultVersion": false,
    "LaunchTemplateData": {
      "NetworkInterfaces": [
        {
          "AssociatePublicIpAddress": true,
          "DeviceIndex": 0,
          "SubnetId": "subnet-04b2f5518f2e3ad65"
        }
      ]
    }
  }
}

```

```

],
  "ImageId": "ami-0d3f444bc76de0a79",
  "InstanceType": "t2.medium",
  "TagSpecifications": [
    {
      "ResourceType": "instance",
      "Tags": [
        {
          "Key": "purpose",
          "Value": "webserver"
        }
      ]
    }
  ]
}

```

1. Allocate Elastic IP and Associate:
 - Using the AWS Management Console, allocate an Elastic IP address.
 - Associate the Elastic IP with an existing running EC2 instance.
2. Verify Elastic IP Functionality:
 - Confirm the functionality of the Elastic IP by accessing the associated EC2 instance.
 - Document any observations or considerations related to Elastic IP usage.
3. Swap Elastic IPs:
 - Allocate another Elastic IP and swap it with the original Elastic IP.
 - Document the steps taken and verify the new Elastic IP functionality.
4. Documentation:
 - Provide a step-by-step guide, including screenshots, for allocating, associating, and swapping Elastic IPs.
 - Include evidence of the successful verification of Elastic IP functionality.

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ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#Addresses:

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EC2

VPC dashboard x

EC2 Global View

Filter by VPC: Select a VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint endpoints

CloudShell Feedback

Elastic IP addresses (1/2)

Filter Elastic IP addresses

Actions Allocate Elastic IP address

Name	Allocated IPv4 add...	Type	Allocation ID	Reverse DN
<input checked="" type="checkbox"/> -	13.200.170.39	Public IP	eipalloc-012b4ca80e20bbe7d	-
<input type="checkbox"/> -	3.108.192.45	Public IP	eipalloc-0667462b825a16a87	-

View IP address usage and recommendations to release unused IPs with Public IP insights.

13.200.170.39

Summary Tags

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ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#AssociateAddress:PublicIp=13.200.170.39

aws Services Search [Alt+S] Mumbai Armansk

EC2

Choose the instance or network interface to associate to this Elastic IP address (13.200.170.39)

Elastic IP address: 13.200.170.39

Resource type

Choose the type of resource with which to associate the Elastic IP address.

☒ Instance

☐ Network interface

If you associate an Elastic IP address with an instance that already has an Elastic IP address associated, the previously associated Elastic IP address will be disassociated, but the address will still be allocated to your account. [Learn more](#)

If no private IP address is specified, the Elastic IP address will be associated with the primary private IP address.

Instance

i-0f87567c51f0ca5cd

Private IP address

The private IP address with which to associate the Elastic IP address.

Choose a private IP address

CloudShell Feedback

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```
root@DESKTOP-0ANCI6F:~# aws ec2 allocate-address
```

```
{
  "PublicIp": "13.201.113.52",
  "AllocationId": "eipalloc-0adde39a1400a71c6",
  "PublicIpv4Pool": "amazon",
  "NetworkBorderGroup": "ap-south-1",
  "Domain": "vpc"
}
```

```
root@DESKTOP-0ANCI6F:~# aws ec2 associate-address --instance-id i-027be4ec7042b68d5 --allocation-id eipalloc-0adde39a1400a71c6
```

```
{
  "AssociationId": "eipassoc-04622f339c18d4bec"
}
```

```
root@DESKTOP-0ANCI6F:~# aws ec2 allocate-address --domain vpc --output json
```

```
{
  "PublicIp": "13.201.155.252",
  "AllocationId": "eipalloc-0761e3eb113f88478",
  "PublicIpv4Pool": "amazon",
  "NetworkBorderGroup": "ap-south-1",
  "Domain": "vpc"
}
```

```
root@DESKTOP-0ANCI6F:~# aws ec2 disassociate-address --association-id eipassoc-04622f339c18d4bec
```

```
root@DESKTOP-0ANCI6F:~# aws ec2 allocate-address
```

```
{
  "PublicIp": "13.200.74.53",
  "AllocationId": "eipalloc-0e2ed22df684c9abb",
  "PublicIpv4Pool": "amazon",
  "NetworkBorderGroup": "ap-south-1",
  "Domain": "vpc"
}
```

```
root@DESKTOP-0ANCI6F:~# aws ec2 associate-address --instance-id i-027be4ec7042b68d5 --allocation-id eipalloc-0e2ed22df684c9abb
```

```
{
  "AssociationId": "eipassoc-0db55ad8faa1379cc"
}
```

```
\
```

1. Create Partition Placement Group:

- Using the AWS Management Console, create a "Partition" placement group.
- Ensure it is associated with a specific region.

2. Launch Instances into Partition Placement Group:

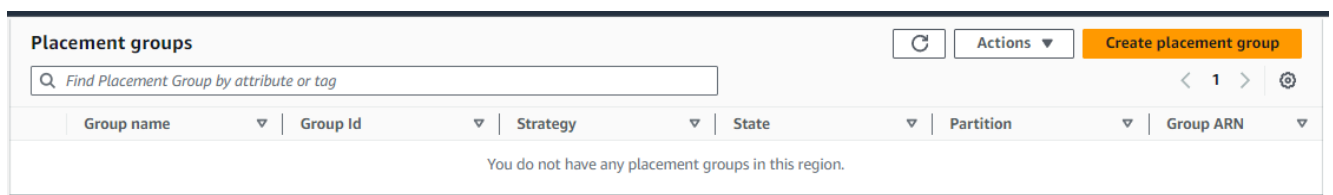
- Launch multiple EC2 instances into the created "Partition" placement group with distinct partition numbers.
- Confirm that instances are distributed across partitions.

3. Test Isolation:

- Use the console to observe the network and resource isolation between instances in different partitions.
- Verify that instances in one partition do not share the underlying hardware with instances in other partitions.

. Documentation:

- Provide a step-by-step guide + screenshots, for creating a "Partition" placement group and launching instances into it.
- Include observations related to network and resource isolation.



EC2 > Placement groups > Create placement group

Create placement group Info

Placement group settings

Name

Placement strategy
Determines how the instances are placed on the underlying hardware.

Partition ▼

Number of partitions
Choose the number of partitions to create in this placement group.

2 ▼

Tags - optional
No tags associated with the resource.

Add new tag

You can add up to 50 more tags.

Cancel
Create group

Created ec2 instance and attached placement groups 1st partition

Placement group
Info

Partition
pg-0789698e80d2df898 ▼
Strategy: partition
Number of partitions: 2
Shared: No

Create new placement group

Target partition
Info

1 ▼

Created ec2 instance and attached placement groups 2nd partition

Placement group
Info

Partition
pg-0789698e80d2df898 ▼
Strategy: partition
Number of partitions: 2
Shared: No

Create new placement group

Target partition
Info

2 ▼

```
root@DESKTOP-0ANCI6F:~# aws ec2 describe-instances --filters Name=placement-group-name,Values=Newgroup
```

```
{
  "Reservations": [
    {
      "Groups": [],
      "Instances": [
        {
          "AmiLaunchIndex": 0,
          "ImageId": "ami-0d3f444bc76de0a79",
          "InstanceId": "i-0db2dc429274c90c1",
          "InstanceType": "t2.micro",
          "KeyName": "18jan",
          "LaunchTime": "2024-01-18T06:43:12.000Z",
          "Monitoring": {
            "State": "disabled"
          },
          "Placement": {
            "AvailabilityZone": "ap-south-1b",
            "GroupName": "Newgroup",
            "PartitionNumber": 1,
            "Tenancy": "default"
          },
          "PrivateDnsName": "ip-172-31-2-6.ap-south-1.compute.internal",
          "PrivateIpAddress": "172.31.2.6",
          "ProductCodes": [],
          "PublicDnsName": "ec2-3-109-202-221.ap-south-1.compute.amazonaws.com",
          "PublicIpAddress": "3.109.202.221",
          "State": {
            "Code": 16,
            "Name": "running"
          },
          "StateTransitionReason": "",
          "SubnetId": "subnet-09cd0b66cff30bbcc",
          "VpcId": "vpc-03c7f996950265179",
          "Architecture": "x86_64",
          "BlockDeviceMappings": [
            {
              "DeviceName": "/dev/xvda",
              "Ebs": {
                "AttachTime": "2024-01-18T06:43:12.000Z",
                "DeleteOnTermination": true,
                "Status": "attached",
                "VolumeId": "vol-0535ba6a5eced6da6"
              }
            }
          ],
        }
      ],
    }
  ],
}
```

```
"ClientToken": "852a14f7-6a29-4e99-94a0-b718c346006d",
  "EbsOptimized": false,
  "EnaSupport": true,
  "Hypervisor": "xen",
  "NetworkInterfaces": [
    {
      "Association": {
        "IpOwnerId": "amazon",
        "PublicDnsName": "ec2-3-109-202-221.ap-south-
1.compute.amazonaws.com",
        "PublicIp": "3.109.202.221"
      },
      "Attachment": {
        "AttachTime": "2024-01-18T06:43:12.000Z",
        "AttachmentId": "eni-attach-03df38244955ce11a",
        "DeleteOnTermination": true,
        "DeviceIndex": 0,
        "Status": "attached",
        "NetworkCardIndex": 0
      },
      "Description": "",
      "Groups": [
        {
          "GroupName": "launch-wizard-2",
          "GroupId": "sg-017d23f1fd7da57dd"
        }
      ],
      "Ipv6Addresses": [],
      "MacAddress": "0a:1f:fd:91:d7:cb",
      "NetworkInterfaceId": "eni-0be0046924ad5e52f",
      "OwnerId": "842313196830",
      "PrivateDnsName": "ip-172-31-2-6.ap-south-1.compute.internal",
      "PrivateIpAddress": "172.31.2.6",
      "PrivateIpAddresses": [
        {
          "Association": {
            "IpOwnerId": "amazon",
            "PublicDnsName": "ec2-3-109-202-221.ap-south-
1.compute.amazonaws.com",
            "PublicIp": "3.109.202.221"
          },
          "Primary": true,
          "PrivateDnsName": "ip-172-31-2-6.ap-south-1.compute.internal",
          "PrivateIpAddress": "172.31.2.6"
        }
      ],
      "SourceDestCheck": true,
      "Status": "in-use",
```

```
"SubnetId": "subnet-09cd0b66cff30bbcc",
    "VpcId": "vpc-03c7f996950265179",
    "InterfaceType": "interface"
  },
  ],
  "RootDeviceName": "/dev/xvda",
  "RootDeviceType": "ebs",
  "SecurityGroups": [
    {
      "GroupName": "launch-wizard-2",
      "GroupId": "sg-017d23f1fd7da57dd"
    }
  ],
  "SourceDestCheck": true,
  "Tags": [
    {
      "Key": "Name",
      "Value": "placement1"
    }
  ],
  ],
  "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": "2024-01-18T06:43:12.000Z",
  "PrivateDnsNameOptions": {
```



```

"HostnameType": "ip-name",
    "EnableResourceNameDnsARecord": true,
    "EnableResourceNameDnsAAAARecord": false
  }
},
"OwnerId": "842313196830",
"ReservationId": "r-0dece507b4b881a9c"
},
{
  "Groups": [],
  "Instances": [
    {
      "AmiLaunchIndex": 0,
      "ImageId": "ami-0d3f444bc76de0a79",
      "InstanceId": "i-064731f867c5e8605",
      "InstanceType": "t2.micro",
      "KeyName": "18jan",
      "LaunchTime": "2024-01-18T06:44:27.000Z",
      "Monitoring": {
        "State": "disabled"
      },
      "Placement": {
        "AvailabilityZone": "ap-south-1b",
        "GroupName": "Newgroup",
        "PartitionNumber": 2,
        "Tenancy": "default"
      },
      "PrivateDnsName": "ip-172-31-5-147.ap-south-1.compute.internal",
      "PrivateIpAddress": "172.31.5.147",
      "ProductCodes": [],
      "PublicDnsName": "ec2-52-66-98-216.ap-south-1.compute.amazonaws.com",
      "PublicIpAddress": "52.66.98.216",
      "State": {
        "Code": 16,
        "Name": "running"
      },
      "StateTransitionReason": "",
      "SubnetId": "subnet-09cd0b66cff30bbcc",
      "VpcId": "vpc-03c7f996950265179",
      "Architecture": "x86_64",
      "BlockDeviceMappings": [
        {
          "DeviceName": "/dev/xvda",
          "Ebs": {
            "AttachTime": "2024-01-18T06:44:28.000Z",
            "DeleteOnTermination": true,
            "Status": "attached",

```

```
"VolumeId": "vol-0424b55897790b5fc"
    }
  },
  "ClientToken": "eaf14071-f5f9-4969-b453-51b95e922fa5",
  "EbsOptimized": false,
  "EnaSupport": true,
  "Hypervisor": "xen",
  "NetworkInterfaces": [
    {
      "Association": {
        "IpOwnerId": "amazon",
        "PublicDnsName": "ec2-52-66-98-216.ap-south-
1.compute.amazonaws.com",
        "PublicIp": "52.66.98.216"
      },
      "Attachment": {
        "AttachTime": "2024-01-18T06:44:27.000Z",
        "AttachmentId": "eni-attach-052d2e736da2f0006",
        "DeleteOnTermination": true,
        "DeviceIndex": 0,
        "Status": "attached",
        "NetworkCardIndex": 0
      },
      "Description": "",
      "Groups": [
        {
          "GroupName": "launch-wizard-3",
          "GroupId": "sg-0736da0c897dc245b"
        }
      ],
      "Ipv6Addresses": [],
      "MacAddress": "0a:a7:71:f4:91:29",
      "NetworkInterfaceId": "eni-00d66398507fbda70",
      "OwnerId": "842313196830",
      "PrivateDnsName": "ip-172-31-5-147.ap-south-1.compute.internal",
      "PrivateIpAddress": "172.31.5.147",
      "PrivateIpAddresses": [
        {
          "Association": {
            "IpOwnerId": "amazon",
            "PublicDnsName": "ec2-52-66-98-216.ap-south-
1.compute.amazonaws.com",
            "PublicIp": "52.66.98.216"
          },
          "Primary": true,
```

```
"PrivateDnsName": "ip-172-31-5-147.ap-south-1.compute.internal",
  "PrivateIpAddress": "172.31.5.147"
}
],
"SourceDestCheck": true,
"Status": "in-use",
"SubnetId": "subnet-09cd0b66cff30bbcc",
"VpcId": "vpc-03c7f996950265179",
"InterfaceType": "interface"
}
],
"RootDeviceName": "/dev/xvda",
"RootDeviceType": "ebs",
"SecurityGroups": [
  {
    "GroupName": "launch-wizard-3",
    "GroupId": "sg-0736da0c897dc245b"
  }
],
"SourceDestCheck": true,
"Tags": [
  {
    "Key": "Name",
    "Value": "placement2"
  }
],
"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": "2024-01-18T06:44:27.000Z",
    "PrivateDnsNameOptions": {
        "HostnameType": "ip-name",
        "EnableResourceNameDnsARecord": true,
        "EnableResourceNameDnsAAAARecord": false
    }
}
],
"OwnerId": "842313196830",
"ReservationId": "r-00477ef5d289a273a"
}
]
}
root@DESKTOP-0ANCI6F:~#
root@DESKTOP-0ANCI6F:~# aws ec2 describe-instances --filters Name=placement-group-
name,Values=Partition
{
  "Reservations": [
    {
      "Groups": [],
      "Instances": [
        {
          "AmiLaunchIndex": 0,
          "ImageId": "ami-0d3f444bc76de0a79",
          "InstanceId": "i-01a09d20f03db08af",
          "InstanceType": "t2.micro",
          "KeyName": "18jan",
          "LaunchTime": "2024-01-18T07:18:45.000Z",
          "Monitoring": {
            "State": "disabled"
          },
          "Placement": {
            "AvailabilityZone": "ap-south-1a",
            "GroupName": "Partition",
            "PartitionNumber": 1,
            "Tenancy": "default"
          },
          "PrivateDnsName": "ip-172-31-42-16.ap-south-1.compute.internal",
          "PrivateIpAddress": "172.31.42.16",
          "ProductCodes": [],
          "PublicDnsName": "ec2-52-66-200-218.ap-south-1.compute.amazonaws.com",
          "PublicIpAddress": "52.66.200.218",
          "State": {
            "Code": 16,
            "Name": "running"
          }
        }
      ]
    }
  ]
}

```

```

},
  "StateTransitionReason": "",
  "SubnetId": "subnet-04b2f5518f2e3ad65",
  "VpcId": "vpc-03c7f996950265179",
  "Architecture": "x86_64",
  "BlockDeviceMappings": [
    {
      "DeviceName": "/dev/xvda",
      "Ebs": {
        "AttachTime": "2024-01-18T07:18:46.000Z",
        "DeleteOnTermination": true,
        "Status": "attached",
        "VolumeId": "vol-0105b26a8a7bad3d2"
      }
    }
  ],
  "ClientToken": "99983bc8-fe3c-42a3-9aa0-43ba16d33015",
  "EbsOptimized": false,
  "EnaSupport": true,
  "Hypervisor": "xen",
  "NetworkInterfaces": [
    {
      "Association": {
        "IpOwnerId": "amazon",
        "PublicDnsName": "ec2-52-66-200-218.ap-south-
1.compute.amazonaws.com",
        "PublicIp": "52.66.200.218"
      },
      "Attachment": {
        "AttachTime": "2024-01-18T07:18:45.000Z",
        "AttachmentId": "eni-attach-030827304c4cde40e",
        "DeleteOnTermination": true,
        "DeviceIndex": 0,
        "Status": "attached",
        "NetworkCardIndex": 0
      },
      "Description": "",
      "Groups": [
        {
          "GroupName": "launch-wizard-4",
          "GroupId": "sg-09d433a95ec59119e"
        }
      ],
      "Ipv6Addresses": [],
      "MacAddress": "02:b9:0b:bb:62:75",
      "NetworkInterfaceId": "eni-0b7de706ed1f477b4",
      "OwnerId": "842313196830",
      "PrivateDnsName": "ip-172-31-42-16.ap-south-1.compute.internal",

```

```
"PrivateIpAddress": "172.31.42.16",
  "PrivateAddresses": [
    {
      "Association": {
        "IpOwnerId": "amazon",
        "PublicDnsName": "ec2-52-66-200-218.ap-south-
1.compute.amazonaws.com",
        "PublicIp": "52.66.200.218"
      },
      "Primary": true,
      "PrivateDnsName": "ip-172-31-42-16.ap-south-1.compute.internal",
      "PrivateIpAddress": "172.31.42.16"
    }
  ],
  "SourceDestCheck": true,
  "Status": "in-use",
  "SubnetId": "subnet-04b2f5518f2e3ad65",
  "VpcId": "vpc-03c7f996950265179",
  "InterfaceType": "interface"
}
],
"RootDeviceName": "/dev/xvda",
"RootDeviceType": "ebs",
"SecurityGroups": [
  {
    "GroupName": "launch-wizard-4",
    "GroupId": "sg-09d433a95ec59119e"
  }
],
"SourceDestCheck": true,
"Tags": [
  {
    "Key": "Name",
    "Value": "part1"
  }
],
"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": "2024-01-18T07:18:45.000Z",
  "PrivateDnsNameOptions": {
    "HostnameType": "ip-name",
    "EnableResourceNameDnsARecord": true,
    "EnableResourceNameDnsAAAARecord": false
  }
},
"OwnerId": "842313196830",
"ReservationId": "r-048a7be58e26341a6"
},
```

```
{
  "Groups": [],
  "Instances": [
    {
      "AmiLaunchIndex": 0,
      "ImageId": "ami-0d3f444bc76de0a79",
      "InstanceId": "i-0503f01ac05124986",
      "InstanceType": "t2.micro",
      "KeyName": "18jan",
      "LaunchTime": "2024-01-18T07:22:13.000Z",
      "Monitoring": {
        "State": "disabled"
      },
      "Placement": {
        "AvailabilityZone": "ap-south-1a",
        "GroupName": "Partition",
        "PartitionNumber": 2,
        "Tenancy": "default"
      },
      "PrivateDnsName": "ip-172-31-33-111.ap-south-1.compute.internal",
      "PrivateIpAddress": "172.31.33.111",
      "ProductCodes": [],
      "PublicDnsName": "ec2-13-234-115-28.ap-south-1.compute.amazonaws.com",
      "PublicIpAddress": "13.234.115.28",
      "State": {
```

```
"Code": 16,
  "Name": "running"
},
"StateTransitionReason": "",
"SubnetId": "subnet-04b2f5518f2e3ad65",
"VpcId": "vpc-03c7f996950265179",
"Architecture": "x86_64",
"BlockDeviceMappings": [
  {
    "DeviceName": "/dev/xvda",
    "Ebs": {
      "AttachTime": "2024-01-18T07:22:14.000Z",
      "DeleteOnTermination": true,
      "Status": "attached",
      "VolumeId": "vol-088df35bc0d388685"
    }
  }
],
"ClientToken": "27337556-934d-41ea-ba2e-5f8b397240fd",
"EbsOptimized": false,
"EnaSupport": true,
"Hypervisor": "xen",
"NetworkInterfaces": [
  {
    "Association": {
      "IpOwnerId": "amazon",
      "PublicDnsName": "ec2-13-234-115-28.ap-south-
1.compute.amazonaws.com",
      "PublicIp": "13.234.115.28"
    },
    "Attachment": {
      "AttachTime": "2024-01-18T07:22:13.000Z",
      "AttachmentId": "eni-attach-0ba14facdd6f649e7",
      "DeleteOnTermination": true,
      "DeviceIndex": 0,
      "Status": "attached",
      "NetworkCardIndex": 0
    },
    "Description": "",
    "Groups": [
      {
        "GroupName": "launch-wizard-5",
        "GroupId": "sg-0487a78902aafc6e0"
      }
    ],
    "Ipv6Addresses": [],
    "MacAddress": "02:41:31:4c:2d:0d",
    "NetworkInterfaceId": "eni-0bf80407836f594ab",
```



```
"OwnerId": "842313196830",
  "PrivateDnsName": "ip-172-31-33-111.ap-south-1.compute.internal",
  "PrivateIpAddress": "172.31.33.111",
  "PrivateIpAddresses": [
    {
      "Association": {
        "IpOwnerId": "amazon",
        "PublicDnsName": "ec2-13-234-115-28.ap-south-
1.compute.amazonaws.com",
        "PublicIp": "13.234.115.28"
      },
      "Primary": true,
      "PrivateDnsName": "ip-172-31-33-111.ap-south-1.compute.internal",
      "PrivateIpAddress": "172.31.33.111"
    }
  ],
  "SourceDestCheck": true,
  "Status": "in-use",
  "SubnetId": "subnet-04b2f5518f2e3ad65",
  "VpcId": "vpc-03c7f996950265179",
  "InterfaceType": "interface"
},
"RootDeviceName": "/dev/xvda",
"RootDeviceType": "ebs",
"SecurityGroups": [
  {
    "GroupName": "launch-wizard-5",
    "GroupId": "sg-0487a78902aafc6e0"
  }
],
"SourceDestCheck": true,
"Tags": [
  {
    "Key": "Name",
    "Value": "part2"
  }
],
"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": "2024-01-18T07:22:13.000Z",
  "PrivateDnsNameOptions": {
    "HostnameType": "ip-name",
    "EnableResourceNameDnsARecord": true,
    "EnableResourceNameDnsAAAARecord": false
  }
},
  "OwnerId": "842313196830",
  "ReservationId": "r-083172b47bca9a1f5"
}
]
```