

Application Load Balancer

	Name	Roll No	Seat no.
1.	Pranav Hatwar	6	T214132

1. Instance

Code:-

```
x=1

while [ $x -ne 0 ]

do

echo "-----"

echo "****Welcome to Amazon CLI****"

echo 1.Create Instance

echo 2.Terminate Instance

echo 3.Create Key Pair

echo 4.Create VPC

echo 5.Create VPC Private Subnet

echo 6.Create public Gateway

echo "-----"

echo "Enter the choice from above:-"

read ch

case "$ch" in
1)echo "Enter the Image-Id (AMI) : "

read eid
```

```
echo "Enter the no. of Instances do you want to lanuch : "  
  
read count  
  
echo "Enter the Instance Type : "  
  
read typ  
  
echo "Use existing key-pair : "  
  
read keych  
  
echo "Enter Security-Group-Id : "  
  
read sid  
  
echo "Enter Subnet-ID : "  
  
read subid  
  
echo "Region : "  
  
read region  
  
aws ec2 run-instances --image-id $eid --count $count --instance-type $typ --key-name $keych  
--security-group-ids $sid --subnet-id $subid --region $region --user-data file://UserScript.txt  
  
echo " You have Launch Instance Successfully ";;  
  
2)echo "Enter Instance ID"  
  
read tid  
  
aws ec2 terminate-instances --instance-ids $tid  
  
echo "The $tid is Terminated Sucessfully";;  
  
3)echo "Enter Key Pair Name"  
  
read Kpair  
  
aws ec2 create-key-pair --key-name $Kpair --query 'KeyMaterial' --output text > $Kpair.pem  
  
echo " You have Create-key-pair Successfully ";;
```

4)echo " Let's start creating a VPC "

echo "Enter Cidr-block." read vpcidr

aws ec2 create-vpc --cidr-block \$vpcidr --query Vpc.VpcId --output text

echo "VPC ID is given above ";;

5) echo "Enter the VPC Id : "

read vpcid

echo "Enter subneting cidr :"

read cidr

aws ec2 create-subnet --vpc-id \$vpcid --cidr-block \$cidr;;

6)aws ec2 create-internet-gateway --query InternetGateway.InternetGatewayId --output text

echo "Above is your internet gateway Id";;

*)echo "Invalid choice.";; esac

echo " "

echo "Enter 1 for continue and 0 for exit."

read x

done

User Data

```
#!/bin/bash
yum install httpd -y
service httpd start
chkconfig httpd on
mkdir /var/www/html/app/
mkdir /var/www/html/net/
echo "<h1>Welcome to Application Load Balancer</h1>" > /var/www/html/app/index.html
echo "<h1>Welcome to Network Load Balancer</h1>" > /var/www/html/net/index.html
echo "<h1>Hello Pranav, Welcome to Load Balancer!!</h1>" > /var/www/html/index.html
~
~
~
```

Launching 6 Instance in 2 Different Subnet

```
[pdhatwar@localhost Downloads]$ ./Instance.sh
-----
****Welcome to Amazon CLI****
1.Create Instance
2.Terminate Instance
3.Create Key Pair
4.Create VPC
5.Create VPC Private Subnet
6.Create public Gateway
-----
Enter the choice from above:-
1
Enter the Image-Id (AMI) :
ami-0ed9277fb7eb570c9
Enter the no. of Instances do you want to lanuch :
3
Enter the Instance Type :
t2.micro
Use existing key-pair :
Final
Enter Security-Group-Id :
sg-09012434651f61673
Enter Subnet-ID :
subnet-a797bc86
Region :
us-east-1
```

```
-----
****Welcome to Amazon CLI****
1.Create Instance
2.Terminate Instance
3.Create Key Pair
4.Create VPC
5.Create VPC Private Subnet
6.Create public Gateway
-----
Enter the choice from above:-
1
Enter the Image-Id (AMI) :
ami-0ed9277fb7eb570c9
Enter the no. of Instances do you want to lanuch :
3
Enter the Instance Type :
t2.micro
Use existing key-pair :
Final
Enter Security-Group-Id :
sg-09012434651f61673
Enter Subnet-ID :
subnet-32f48403
Region :
us-east-1
```

```
{
  "Groups": [],
  "Instances": [
    {
      "AmiLaunchIndex": 2,
      "ImageId": "ami-0ed9277fb7eb570c9",
      "InstanceId": "i-0a850f9d47f16bafe",
      "InstanceType": "t2.micro",
      "KeyName": "Final",
      "LaunchTime": "2021-12-05T18:17:26+00:00",
```

```
"Monitoring": {
  "State": "disabled"
},
"Placement": {
  "AvailabilityZone": "us-east-1c",
  "GroupName": "",
  "Tenancy": "default"
},
"PrivateDnsName": "ip-172-31-94-204.ec2.internal",
"PrivateIpAddress": "172.31.94.204",
"ProductCodes": [],
"PublicDnsName": "",
"State": {
  "Code": 0,
  "Name": "pending"
},
"StateTransitionReason": "",
"SubnetId": "subnet-a797bc86",
"VpcId": "vpc-b02850cd",
"Architecture": "x86_64",
"BlockDeviceMappings": [],
"ClientToken": "0c5ef0b5-ce3a-4982-87e3-0865bca6a613",
"EbsOptimized": false,
"EnaSupport": true,
"Hypervisor": "xen",
"NetworkInterfaces": [
  {
    "Attachment": {
      "AttachTime": "2021-12-05T18:17:26+00:00",
      "AttachmentId": "eni-attach-0035ff74cc1d7398c",
      "DeleteOnTermination": true,
      "DeviceIndex": 0,
      "Status": "attaching",
      "NetworkCardIndex": 0
    },
    "Description": "",
    "Groups": [
      {
        "GroupName": "launch-wizard-11",
        "GroupId": "sg-09012434651f61673"
      }
    ],
    "Ipv6Addresses": [],
    "MacAddress": "12:0d:a0:34:8c:09",
```

```
    "NetworkInterfaceId": "eni-0e0c4471a0514cf6c",
    "OwnerId": "278460603394",
    "PrivateDnsName": "ip-172-31-94-204.ec2.internal",
    "PrivateIpAddress": "172.31.94.204",
    "PrivateIpAddresses": [
      {
        "Primary": true,
        "PrivateDnsName": "ip-172-31-94-204.ec2.internal",
        "PrivateIpAddress": "172.31.94.204"
      }
    ],
    "SourceDestCheck": true,
    "Status": "in-use",
    "SubnetId": "subnet-a797bc86",
    "VpcId": "vpc-b02850cd",
    "InterfaceType": "interface"
  }
],
"RootDeviceName": "/dev/xvda",
"RootDeviceType": "ebs",
"SecurityGroups": [
  {
    "GroupName": "launch-wizard-11",
    "GroupId": "sg-09012434651f61673"
  }
],
"SourceDestCheck": true,
"StateReason": {
  "Code": "pending",
  "Message": "pending"
},
"VirtualizationType": "hvm",
"CpuOptions": {
  "CoreCount": 1,
  "ThreadsPerCore": 1
},
"CapacityReservationSpecification": {
  "CapacityReservationPreference": "open"
},
"MetadataOptions": {
  "State": "pending",
  "HttpTokens": "optional",
  "HttpPutResponseHopLimit": 1,
  "HttpEndpoint": "enabled",
```

```
    "HttpProtocolIpv6": "disabled"
  },
  "EnclaveOptions": {
    "Enabled": false
  }
},
{
  "AmiLaunchIndex": 0,
  "ImageId": "ami-0ed9277fb7eb570c9",
  "InstanceId": "i-056d94ff55903e8ff",
  "InstanceType": "t2.micro",
  "KeyName": "Final",
  "LaunchTime": "2021-12-05T18:17:26+00:00",
  "Monitoring": {
    "State": "disabled"
  },
  "Placement": {
    "AvailabilityZone": "us-east-1c",
    "GroupName": "",
    "Tenancy": "default"
  },
  "PrivateDnsName": "ip-172-31-85-163.ec2.internal",
  "PrivateIpAddress": "172.31.85.163",
  "ProductCodes": [],
  "PublicDnsName": "",
  "State": {
    "Code": 0,
    "Name": "pending"
  },
  "StateTransitionReason": "",
  "SubnetId": "subnet-a797bc86",
  "VpcId": "vpc-b02850cd",
  "Architecture": "x86_64",
  "BlockDeviceMappings": [],
  "ClientToken": "0c5ef0b5-ce3a-4982-87e3-0865bca6a613",
  "EbsOptimized": false,
  "EnaSupport": true,
  "Hypervisor": "xen",
  "NetworkInterfaces": [
    {
      "Attachment": {
        "AttachTime": "2021-12-05T18:17:26+00:00",
        "AttachmentId": "eni-attach-02ff199a3be85ad34",
        "DeleteOnTermination": true,
```

```

        "DeviceIndex": 0,
        "Status": "attaching",
        "NetworkCardIndex": 0
    },
    "Description": "",
    "Groups": [
        {
            "GroupName": "launch-wizard-11",
            "GroupId": "sg-09012434651f61673"
        }
    ],
    "Ipv6Addresses": [],
    "MacAddress": "12:a0:56:ba:a0:69",
    "NetworkInterfaceId": "eni-0d8c0abe419ea9d71",
    "OwnerId": "278460603394",
    "PrivateDnsName": "ip-172-31-85-163.ec2.internal",
    "PrivateIpAddress": "172.31.85.163",
    "PrivateIpAddresses": [
        {
            "Primary": true,
            "PrivateDnsName": "ip-172-31-85-163.ec2.internal",
            "PrivateIpAddress": "172.31.85.163"
        }
    ],
    "SourceDestCheck": true,
    "Status": "in-use",
    "SubnetId": "subnet-a797bc86",
    "VpcId": "vpc-b02850cd",
    "InterfaceType": "interface"
    }
],
"RootDeviceName": "/dev/xvda",
"RootDeviceType": "ebs",
"SecurityGroups": [
    {
        "GroupName": "launch-wizard-11",
        "GroupId": "sg-09012434651f61673"
    }
],
"SourceDestCheck": true,
"StateReason": {
    "Code": "pending",
    "Message": "pending"
},

```



```
"VirtualizationType": "hvm",
"CpuOptions": {
  "CoreCount": 1,
  "ThreadsPerCore": 1
},
"CapacityReservationSpecification": {
  "CapacityReservationPreference": "open"
},
"MetadataOptions": {
  "State": "pending",
  "HttpTokens": "optional",
  "HttpPutResponseHopLimit": 1,
  "HttpEndpoint": "enabled",
  "HttpProtocolIpv6": "disabled"
},
"EnclaveOptions": {
  "Enabled": false
}
},
{
  "AmiLaunchIndex": 1,
  "ImageId": "ami-0ed9277fb7eb570c9",
  "InstanceId": "i-01040a4263c248c8e",
  "InstanceType": "t2.micro",
  "KeyName": "Final",
  "LaunchTime": "2021-12-05T18:17:26+00:00",
  "Monitoring": {
    "State": "disabled"
  },
  "Placement": {
    "AvailabilityZone": "us-east-1c",
    "GroupName": "",
    "Tenancy": "default"
  },
  "PrivateDnsName": "ip-172-31-80-232.ec2.internal",
  "PrivateIpAddress": "172.31.80.232",
  "ProductCodes": [],
  "PublicDnsName": "",
  "State": {
    "Code": 0,
    "Name": "pending"
  },
  "StateTransitionReason": "",
  "SubnetId": "subnet-a797bc86",
```

```

"VpcId": "vpc-b02850cd",
"Architecture": "x86_64",
"BlockDeviceMappings": [],
"ClientToken": "0c5ef0b5-ce3a-4982-87e3-0865bca6a613",
"EbsOptimized": false,
"EnaSupport": true,
"Hypervisor": "xen",
"NetworkInterfaces": [
  {
    "Attachment": {
      "AttachTime": "2021-12-05T18:17:26+00:00",
      "AttachmentId": "eni-attach-0dd2fa848d0d18099",
      "DeleteOnTermination": true,
      "DeviceIndex": 0,
      "Status": "attaching",
      "NetworkCardIndex": 0
    },
    "Description": "",
    "Groups": [
      {
        "GroupName": "launch-wizard-11",
        "GroupId": "sg-09012434651f61673"
      }
    ],
    "Ipv6Addresses": [],
    "MacAddress": "12:ab:dc:02:c0:6b",
    "NetworkInterfaceId": "eni-0bc430838ccd229d2",
    "OwnerId": "278460603394",
    "PrivateDnsName": "ip-172-31-80-232.ec2.internal",
    "PrivateIpAddress": "172.31.80.232",
    "PrivateIpAddresses": [
      {
        "Primary": true,
        "PrivateDnsName": "ip-172-31-80-232.ec2.internal",
        "PrivateIpAddress": "172.31.80.232"
      }
    ],
    "SourceDestCheck": true,
    "Status": "in-use",
    "SubnetId": "subnet-a797bc86",
    "VpcId": "vpc-b02850cd",
    "InterfaceType": "interface"
  }
],

```

```

    "RootDeviceName": "/dev/xvda",
    "RootDeviceType": "ebs",
    "SecurityGroups": [
      {
        "GroupName": "launch-wizard-11",
        "GroupId": "sg-09012434651f61673"
      }
    ],
    "SourceDestCheck": true,
    "StateReason": {
      "Code": "pending",
      "Message": "pending"
      "GroupId": "sg-09012434651f61673"
    }
  ],
  "SourceDestCheck": true,
  "StateReason": {
    "Code": "pending",
    "Message": "pending"
  }
}

{
  "Groups": [],
  "Instances": [
    {
      "AmiLaunchIndex": 1,
      "ImageId": "ami-0ed9277fb7eb570c9",
      "InstanceId": "i-0073e6489fb08626a",
      "InstanceType": "t2.micro",
      "KeyName": "Final",
      "LaunchTime": "2021-12-05T18:00:17+00:00",
      "Monitoring": {
        "State": "disabled"
      },
      "Placement": {
        "AvailabilityZone": "us-east-1e",
        "GroupName": "",
        "Tenancy": "default"
      },
      "PrivateDnsName": "ip-172-31-52-6.ec2.internal",
      "PrivateIpAddress": "172.31.52.6",
      "ProductCodes": [],
      "PublicDnsName": ""
    }
  ]
}

```

```
"State": {
  "Code": 0,
  "Name": "pending"
},
"StateTransitionReason": "",
"SubnetId": "subnet-32f48403",
"VpcId": "vpc-b02850cd",
"Architecture": "x86_64",
"BlockDeviceMappings": [],
"ClientToken": "058eefea-4abf-4987-ab01-2e4a56bf5bfc",
"EbsOptimized": false,
"EnaSupport": true,
"Hypervisor": "xen",
"NetworkInterfaces": [
  {
    "Attachment": {
      "AttachTime": "2021-12-05T18:00:17+00:00",
      "AttachmentId": "eni-attach-056f413837c5cbb38",
      "DeleteOnTermination": true,
      "DeviceIndex": 0,
      "Status": "attaching",
      "NetworkCardIndex": 0
    },
    "Description": "",
    "Groups": [
      {
        "GroupName": "launch-wizard-11",
        "GroupId": "sg-09012434651f61673"
      }
    ],
    "Ipv6Addresses": [],
    "MacAddress": "06:3c:4e:c3:4e:7b",
    "NetworkInterfaceId": "eni-01a1fc8a1a22fd576",
    "OwnerId": "278460603394",
    "PrivateDnsName": "ip-172-31-52-6.ec2.internal",
    "PrivateIpAddress": "172.31.52.6",
    "PrivateIpAddresses": [
      {
        "Primary": true,
        "PrivateDnsName": "ip-172-31-52-6.ec2.internal",
        "PrivateIpAddress": "172.31.52.6"
      }
    ],
    "SourceDestCheck": true,
```

```
    "Status": "in-use",
    "SubnetId": "subnet-32f48403",
    "VpcId": "vpc-b02850cd",
    "InterfaceType": "interface"
  }
],
"RootDeviceName": "/dev/xvda",
"RootDeviceType": "ebs",
"SecurityGroups": [
  {
    "GroupName": "launch-wizard-11",
    "GroupId": "sg-09012434651f61673"
  }
],
"SourceDestCheck": true,
"StateReason": {
  "Code": "pending",
  "Message": "pending"
},
"VirtualizationType": "hvm",
"CpuOptions": {
  "CoreCount": 1,
  "ThreadsPerCore": 1
},
"CapacityReservationSpecification": {
  "CapacityReservationPreference": "open"
},
"MetadataOptions": {
  "State": "pending",
  "HttpTokens": "optional",
  "HttpPutResponseHopLimit": 1,
  "HttpEndpoint": "enabled",
  "HttpProtocolIpv6": "disabled"
},
"EnclaveOptions": {
  "Enabled": false
}
},
{
  "AmiLaunchIndex": 2,
  "ImageId": "ami-0ed9277fb7eb570c9",
  "InstanceId": "i-091f9eb0237b2f91e",
  "InstanceType": "t2.micro",
  "KeyName": "Final",
```

```
"LaunchTime": "2021-12-05T18:00:17+00:00",
"Monitoring": {
  "State": "disabled"
},
"Placement": {
  "AvailabilityZone": "us-east-1e",
  "GroupName": "",
  "Tenancy": "default"
},
"PrivateDnsName": "ip-172-31-57-120.ec2.internal",
"PrivateIpAddress": "172.31.57.120",
"ProductCodes": [],
"PublicDnsName": "",
"State": {
  "Code": 0,
  "Name": "pending"
},
"StateTransitionReason": "",
"SubnetId": "subnet-32f48403",
"VpcId": "vpc-b02850cd",
"Architecture": "x86_64",
"BlockDeviceMappings": [],
"ClientToken": "058eefea-4abf-4987-ab01-2e4a56bf5bfc",
"EbsOptimized": false,
"EnaSupport": true,
"Hypervisor": "xen",
"NetworkInterfaces": [
  {
    "Attachment": {
      "AttachTime": "2021-12-05T18:00:17+00:00",
      "AttachmentId": "eni-attach-028e3483683801d8e",
      "DeleteOnTermination": true,
      "DeviceIndex": 0,
      "Status": "attaching",
      "NetworkCardIndex": 0
    },
    "Description": "",
    "Groups": [
      {
        "GroupName": "launch-wizard-11",
        "GroupId": "sg-09012434651f61673"
      }
    ],
    "Ipv6Addresses": [],
```

```
"MacAddress": "06:13:56:b8:fa:79",
"NetworkInterfaceId": "eni-0235b67fea9b37633",
"OwnerId": "278460603394",
"PrivateDnsName": "ip-172-31-57-120.ec2.internal",
"PrivateIpAddress": "172.31.57.120",
"PrivateIpAddresses": [
  {
    "Primary": true,
    "PrivateDnsName": "ip-172-31-57-120.ec2.internal",
    "PrivateIpAddress": "172.31.57.120"
  }
],
"SourceDestCheck": true,
"Status": "in-use",
"SubnetId": "subnet-32f48403",
"VpcId": "vpc-b02850cd",
"InterfaceType": "interface"
}
],
"RootDeviceName": "/dev/xvda",
"RootDeviceType": "ebs",
"SecurityGroups": [
  {
    "GroupName": "launch-wizard-11",
    "GroupId": "sg-09012434651f61673"
  }
],
"SourceDestCheck": true,
"StateReason": {
  "Code": "pending",
  "Message": "pending"
},
"VirtualizationType": "hvm",
"CpuOptions": {
  "CoreCount": 1,
  "ThreadsPerCore": 1
},
"CapacityReservationSpecification": {
  "CapacityReservationPreference": "open"
},
"MetadataOptions": {
  "State": "pending",
  "HttpTokens": "optional",
  "HttpPutResponseHopLimit": 1,
```

```
    "HttpEndpoint": "enabled",
    "HttpProtocolIpv6": "disabled"
  },
  "EnclaveOptions": {
    "Enabled": false
  }
},
{
  "AmiLaunchIndex": 0,
  "ImageId": "ami-0ed9277fb7eb570c9",
  "InstanceId": "i-04ef92ffb3df43da7",
  "InstanceType": "t2.micro",
  "KeyName": "Final",
  "LaunchTime": "2021-12-05T18:00:17+00:00",
  "Monitoring": {
    "State": "disabled"
  },
  "Placement": {
    "AvailabilityZone": "us-east-1e",
    "GroupName": "",
    "Tenancy": "default"
  },
  "PrivateDnsName": "ip-172-31-56-211.ec2.internal",
  "PrivateIpAddress": "172.31.56.211",
  "ProductCodes": [],
  "PublicDnsName": "",
  "State": {
    "Code": 0,
    "Name": "pending"
  },
  "StateTransitionReason": "",
  "SubnetId": "subnet-32f48403",
  "VpcId": "vpc-b02850cd",
  "Architecture": "x86_64",
  "BlockDeviceMappings": [],
  "ClientToken": "058eefea-4abf-4987-ab01-2e4a56bf5bfc",
  "EbsOptimized": false,
  "EnaSupport": true,
  "Hypervisor": "xen",
  "NetworkInterfaces": [
    {
      "Attachment": {
        "AttachTime": "2021-12-05T18:00:17+00:00",
        "AttachmentId": "eni-attach-00dcc340d7463963b",
```



```
    "DeleteOnTermination": true,
    "DeviceIndex": 0,
    "Status": "attaching",
    "NetworkCardIndex": 0
  },
  "Description": "",
  "Groups": [
    {
      "GroupName": "launch-wizard-11",
      "GroupId": "sg-09012434651f61673"
    }
  ],
  "Ipv6Addresses": [],
  "MacAddress": "06:e7:e7:14:a9:17",
  "NetworkInterfaceId": "eni-013a05fa465e2afe0",
  "OwnerId": "278460603394",
  "PrivateDnsName": "ip-172-31-56-211.ec2.internal",
  "PrivateIpAddress": "172.31.56.211",
  "PrivateIpAddresses": [
    {
      "Primary": true,
      "PrivateDnsName": "ip-172-31-56-211.ec2.internal",
      "PrivateIpAddress": "172.31.56.211"
    }
  ],
  "SourceDestCheck": true,
  "Status": "in-use",
  "SubnetId": "subnet-32f48403",
  "VpcId": "vpc-b02850cd",
  "InterfaceType": "interface"
},
"RootDeviceName": "/dev/xvda",
"RootDeviceType": "ebs",
"SecurityGroups": [
  {
    "GroupName": "launch-wizard-11",
    "GroupId": "sg-09012434651f61673"
  }
],
"SourceDestCheck": true,
"StateReason": {
  "Code": "pending",
  "Message": "pending"
```

```

    },
    "VirtualizationType": "hvm",
    "CpuOptions": {
      "CoreCount": 1,
      "ThreadsPerCore": 1
    },
    "CapacityReservationSpecification": {
      "CapacityReservationPreference": "open"
    },
    "MetadataOptions": {
      "State": "pending",
      "HttpTokens": "optional",
      "HttpPutResponseHopLimit": 1,
      "HttpEndpoint": "enabled",
      "HttpProtocolIpv6": "disabled"
    },
    "EnclaveOptions": {
      "Enabled": false
    }
  }
},
"OwnerId": "278460603394",
"ReservationId": "r-0c464bdb7b2dd4f"
}

```

2. Target Group

Code:-

```
x=1

while [ $x -ne 0 ]

do
    echo "-----"

    echo "****Target Group*****"

    echo 1. Create Target Group

    echo 2. Register-targets

    echo 3. Describe-target-groups

    echo 4. Modify-target-group

    echo 5. Delete-target-group

    echo 6. Deregister-targets

    echo "-----"

    echo "Enter the choice from above:-"

    read ch

    case "$ch" in

1)echo "Enter the Target Group Name: "

read nam

echo "Enter Protocol : "

read protocol

echo "Enter Port : "

read port

echo "Enter Type : "
```

```
read typet

echo "Enter vpc-id: "

read vpcid

echo "Enter Protocol Version: "

read vprotocol

echo "Enter health-check-protocol "

read protocol

echo "Enter health-check-port "

read port

echo "Enter health-check-interval-seconds "

read hint

echo "Enter health-check-timeout-seconds "

read htime

echo "Enter healthy-threshold-count "

read hcount

echo "Enter unhealthy-threshold-count "

read unhcount

aws elbv2 create-target-group --name $nam --protocol $protocol --port $port --target-type
$typet --vpc-id $vpcid --protocol-version $vprotocol --health-check-protocol $protocol
--health-check-port $port --health-check-interval-seconds $hint
--health-check-timeout-seconds $htime --healthy-threshold-count $hcount
--unhealthy-threshold-count $unhcount
echo " You have create-target-group Successfully";;
```

2) echo "Enter Amazon Resource Name "

```
read arn
```

```
echo "Enter instance/targets Id "
```

```
read tid
```

```
aws elbv2 register-targets --target-group-arn $arn --targets $tid
```

```
echo " You have register-target-group Successfully " ;;
```

```
3) echo "Enter Amazon Resource Name "
```

```
read arn
```

```
aws elbv2 describe-target-groups --target-group-arn $arn
```

```
echo "Describe Sucessfully";;
```

```
4)echo "Enter Amazon Resource Name "
```

```
read arn
```

```
echo "Enter health-check-protocol "
```

```
read protocol
```

```
echo "Enter health-check-port "
```

```
read port
```

```
echo "Enter health-check-interval-seconds "
```

```
read hint
```

```
echo "Enter health-check-timeout-seconds "
```

```
read htime
```

```
echo "Enter healthy-threshold-count "
```

```
read hcount
```

```
echo "Enter unhealthy-threshold-count "
```

```
read uncount
```

```
aws elbv2 modify-target-group --target-group-arn $arn --health-check-protocol $protocol  
--health-check-port $port --health-check-interval-seconds $hint  
--health-check-timeout-seconds $htime --healthy-threshold-count $hcount  
--unhealthy-threshold-count $unhcount  
echo "Modify Sucessfully";;
```

```
5) echo "Enter Amazon Resource Name "
```

```
read arn
```

```
aws elbv2 delete-target-group --target-group-arn $arn
```

```
echo "Deleted Sucessfully";;
```

```
6) echo "Enter Amazon Resource Name "
```

```
read arn
```

```
echo "Enter targets Id "
```

```
read tid
```

```
aws elbv2 deregister-targets --target-group-arn $arn --targets $tid  
echo "The Deregister-targets Sucessfully";;
```

```
*)echo "Invalid choice."
```

```
esac
```

```
echo "-----"
```

```
echo "Enter 1 for continue and 0 for exit."
```

```
read x
```

```
done
```

```
clear
```

Creating 3 Target Group Name CLB, ALB, NLB

● CLB

```
[pdhatwar@localhost Downloads]$ ./TargetGrp.sh
-----
****Target Group****
1. Create Target Group
2. Register-targets
3. Describe-target-groups
4. Modify-target-group
5. Delete-target-group
6. Deregister-targets
-----
Enter the choice from above:-
1
Enter the Target Group Name:
CLB
Enter Protocol :
HTTP
Enter Port :
80
Enter Type :
instance
Enter vpc-id:
vpc-b02850cd
Enter Protocol Version:
HTTP1
Enter health-check-protocol
HTTP
Enter health-check-port
80
Enter health-check-interval-seconds
30
Enter health-check-timeout-seconds
3
Enter healthy-threshold-count
2
Enter unhealthy-threshold-count
2
{
{
  "TargetGroups": [
    {
      "TargetGroupArn": "arn:aws:elasticloadbalancing:us-east-1:278460603394:targ
etgroup/CLB/94abad9a80d6dffa",
      "TargetGroupName": "CLB",
      "Protocol": "HTTP",
      "Port": 80,
      "VpcId": "vpc-b02850cd",
      "HealthCheckProtocol": "HTTP",
      "HealthCheckPort": "80",
      "HealthCheckEnabled": true,
      "HealthCheckIntervalSeconds": 30,
      "HealthCheckTimeoutSeconds": 3,
      "HealthyThresholdCount": 2,
      "UnhealthyThresholdCount": 2,
      "HealthCheckPath": "/",
      "Matcher": {
        "HttpCode": "200"
      },
      "TargetType": "instance",
      "ProtocolVersion": "HTTP1"
    }
  ]
}
```

● ALB

```
[pdhatwar@localhost Downloads]$ ./TargetGrp.sh
```

```
-----  
****Target Group*****
```

1. Create Target Group
2. Register-targets
3. Describe-target-groups
4. Modify-target-group
5. Delete-target-group
6. Deregister-targets

```
-----  
Enter the choice from above:-
```

```
1
```

```
Enter the Target Group Name:
```

```
ALB
```

```
Enter Protocol :
```

```
HTTP
```

```
Enter Port :
```

```
80
```

```
Enter Type :
```

```
instance
```

```
Enter vpc-id:
```

```
vpc-b02850cd
```

```
Enter Protocol Version:
```

```
HTTP1
```

```
Enter health-check-protocol
```

```
HTTP
```

```
Enter health-check-port
```

```
80
```

```
Enter health-check-interval-seconds
```

```
30
```

```
Enter health-check-timeout-seconds
```

```
3
```

```
Enter healthy-threshold-count
```

```
2
```

```
Enter unhealthy-threshold-count
```

```
2
```

```
{
```

```
  "TargetGroups": [
```

```
    {
```

```
      "TargetGroupArn": "arn:aws:elasticloadbalancing:us-east-1:278460603394:targetgroup/ALB/60c8722f658dddf",
```

```
      "TargetGroupName": "ALB",
```

```
      "Protocol": "HTTP",
```

```
      "Port": 80,
```

```
      "VpcId": "vpc-b02850cd",
```

```
      "HealthCheckProtocol": "HTTP",
```

```
      "HealthCheckPort": "80",
```

```
      "HealthCheckEnabled": true,
```

```
      "HealthCheckIntervalSeconds": 30,
```

```
      "HealthCheckTimeoutSeconds": 3,
```

```
      "HealthyThresholdCount": 2,
```

```
      "UnhealthyThresholdCount": 2,
```

```
      "HealthCheckPath": "/",
```

```
      "Matcher": {
```

```
        "HttpCode": "200"
```

```
      },
```

```
      "TargetType": "instance",
```

```
      "ProtocolVersion": "HTTP1"
```

```
    }
```

```
  ]
```

```
}
```

```
(END)
```


● NLB

```
[pdhatwar@localhost Downloads]$ ./TargetGrp.sh
```

```
-----
****Target Group*****
1. Create Target Group
2. Register-targets
3. Describe-target-groups
4. Modify-target-group
5. Delete-target-group
6. Deregister-targets
-----
Enter the choice from above:-
1
Enter the Target Group Name:
NLB
Enter Protocol :
HTTP
Enter Port :
80
Enter Type :
instance
Enter vpc-id:
vpc-b02850cd
Enter Protocol Version:
HTTP1
Enter health-check-protocol
```

```
HTTP
Enter health-check-port
80
Enter health-check-interval-seconds
30
Enter health-check-timeout-seconds
3
Enter healthy-threshold-count
2
Enter unhealthy-threshold-count
2
{
  "TargetGroups": [
    {
      "TargetGroupArn": "arn:aws:elasticloadbalancing:us-east-1:278460603394:targetgroup/NLB/217cb39b4a4458cb",
      "TargetGroupName": "NLB",
      "Protocol": "HTTP",
      "Port": 80,
      "VpcId": "vpc-b02850cd",
      "HealthCheckProtocol": "HTTP",
      "HealthCheckPort": "80",
      "HealthCheckEnabled": true,
      "HealthCheckIntervalSeconds": 30,
      "HealthCheckTimeoutSeconds": 3,
```

```
      "HealthyThresholdCount": 2,
      "UnhealthyThresholdCount": 2,
      "HealthCheckPath": "/",
      "Matcher": {
        "HttpCode": "200"
      },
      "TargetType": "instance",
      "ProtocolVersion": "HTTP1"
    }
  ]
}
(END)
```

Registering 2 Instances to Each Target Group

Target Group CLB and 2 Instance

```
[pdhatwar@localhost Downloads]$ ./TargetGrp.sh
-----
****Target Group****
1. Create Target Group
2. Register-targets
3. Describe-target-groups
4. Modify-target-group
5. Delete-target-group
6. Deregister-targets
-----
Enter the choice from above:-
2
Enter Amazon Resource Name
arn:aws:elasticloadbalancing:us-east-1:278460603394:targetgroup/CLB/94abad9a80d6dffa
Enter instance/targets Id
Id=i-0073e6489fb08626a
You have register-target-group Successfully
-----
Enter 1 for continue and 0 for exit.
```

```
Enter 1 for continue and 0 for exit.
1
-----
****Target Group****
1. Create Target Group
2. Register-targets
3. Describe-target-groups
4. Modify-target-group
5. Delete-target-group
6. Deregister-targets
-----
Enter the choice from above:-
2
Enter Amazon Resource Name
arn:aws:elasticloadbalancing:us-east-1:278460603394:targetgroup/CLB/94abad9a80d6dffa
Enter instance/targets Id
Id=i-0a850f9d47f16baf6
You have register-target-group Successfully
-----
Enter 1 for continue and 0 for exit.
```

Target Group ALB and 2 Instance

```
Enter 1 for continue and 0 for exit.
1
-----
****Target Group****
1. Create Target Group
2. Register-targets
3. Describe-target-groups
4. Modify-target-group
5. Delete-target-group
6. Deregister-targets
-----
Enter the choice from above:-
2
Enter Amazon Resource Name
arn:aws:elasticloadbalancing:us-east-1:278460603394:targetgroup/ALB/60c8722f658dddf
Enter instance/targets Id
Id=i-091f9eb0237b2f91e
You have register-target-group Successfully
-----
Enter 1 for continue and 0 for exit.
█
```

```
Enter 1 for continue and 0 for exit.
1
-----
****Target Group****
1. Create Target Group
2. Register-targets
3. Describe-target-groups
4. Modify-target-group
5. Delete-target-group
6. Deregister-targets
-----
Enter the choice from above:-
2
Enter Amazon Resource Name
arn:aws:elasticloadbalancing:us-east-1:278460603394:targetgroup/ALB/60c8722f658dddf
Enter instance/targets Id
Id=i-01040a4263c248c8e
You have register-target-group Successfully
-----
Enter 1 for continue and 0 for exit.
█
```

Target Group NLB and 2 Instance

```
Enter 1 for continue and 0 for exit.
1
-----
****Target Group****
1. Create Target Group
2. Register-targets
3. Describe-target-groups
4. Modify-target-group
5. Delete-target-group
6. Deregister-targets
-----
Enter the choice from above:-
2
Enter Amazon Resource Name
arn:aws:elasticloadbalancing:us-east-1:278460603394:targetgroup/NLB/217cb39b4a4458cb
Enter instance/targets Id
Id=i-04ef92ffb3df43da7
You have register-target-group Successfully
-----
Enter 1 for continue and 0 for exit.
█
```

```
Enter 1 for continue and 0 for exit.
1
-----
****Target Group****
1. Create Target Group
2. Register-targets
3. Describe-target-groups
4. Modify-target-group
5. Delete-target-group
6. Deregister-targets
-----
Enter the choice from above:-
2
Enter Amazon Resource Name
arn:aws:elasticloadbalancing:us-east-1:278460603394:targetgroup/NLB/217cb39b4a4458cb
Enter instance/targets Id
Id=i-056d94ff55903e8ff
You have register-target-group Successfully
-----
Enter 1 for continue and 0 for exit.
█
```

3. Load Balance

Code:-

```
x=1

while [ $x -ne 0 ]

do
echo "-----"

echo "***** Load-Balancer*****"

echo 1. Create-load-balancer

echo 2. Create-listener

echo 3. Create-rule

echo 4. Describe-load-balancers

echo 5. Describe-listeners

echo 6. Describe-rules

echo 7. Modify-rule

echo 8. Modify-listener

echo 9. Delete-load-balancer

echo 10. Delete-listener

echo 11. Delete-rule

echo "-----"

echo "Enter the choice from above:-"

read ch
```

```
case "$sch" in

1)echo "Enter the load-balancer Name: "

read nam

echo "Enter subnet1 : "

read sub1

echo "Enter subnet2 : "

read sub2

echo "Enter Type : "

read typ

echo "Enter security-groups: "

read sg

echo "Enter scheme: "

read sch

echo " Ip-address-type "

read ip

aws elbv2 create-load-balancer --name $nam --subnets $sub1 $sub2 --security-groups $sg
--scheme $sch --type $typ --ip-address-type $ip

echo " You have Created-load-balancer Successfully " ;;

2) echo "Enter Amazon Resource Name for LB "

read arn

echo "Enter Amazon Resource Name for TG "

read tarn

echo "Enter Protocol "
```

read protocol

echo "Enter Port "

read port

aws elbv2 create-listener --load-balancer-arn \$arn --protocol \$protocol --port \$port
--default-actions Type=forward,TargetGroupArn=\$tarn

echo "You have created-listener Sucessfully";;

3) echo "Enter Amazon Resource Name for Listener "

read larn

echo "Enter Amazon Resource Name for TG "

read tarn

echo "Enter Priority "

read prio

echo "Enter Path "

read path

aws elbv2 create-rule --listener-arn \$larn --priority \$prio --conditions
Field=path-pattern,Values='/\$path/*' --actions Type=forward,TargetGroupArn=\$tarn

echo "You have Create-rule Sucessfully";;

4)echo "Enter Amazon Resource Name for LB "

read arn

aws elbv2 describe-load-balancers --load-balancer-arns \$arn

echo "Describe-load-balancers Sucessfully";;

5)echo "Enter Amazon Resource Name for Listeners "

read arn

```
aws elbv2 describe-listeners --listener-arns $arn
```

```
echo "Describe-listeners Sucessfully";;
```

```
6)echo "Enter Amazon Resource Name for Rule"
```

```
read arn
```

```
aws elbv2 describe-rules --rule-arns $arn
```

```
echo " Describe-rules Sucessfully";;
```

```
7) echo "Enter Amazon Resource Name for Rule "
```

```
read rarn
```

```
echo "Enter Amazon Resource Name for TG "
```

```
read tarn
```

```
echo "Enter Path "
```

```
read path
```

```
aws elbv2 modify-rule --actions Type=forward,TargetGroupArn=$tarn --conditions  
Field=path-pattern,Values='/$path/*' --rule-arn $rarn
```

```
echo " Modify-rule Sucessfully";;
```

```
8) echo "Enter Amazon Resource Name for Listener "
```

```
read larn
```

```
echo "Enter Amazon Resource Name for TG "
```

```
read tarn
```

```
aws elbv2 modify-listener --listener-arn $larn --default-actions  
Type=forward,TargetGroupArn=$tarn
```

```
echo " Modify-listener Sucessfully";;
```

```
9) echo "Enter Amazon Resource Name for LB "
```



```
read arn

aws elbv2 delete-load-balancer --load-balancer-arn $arn

echo " load-balancer Deleted Sucessfully";;

10) echo "Enter Amazon Resource Name  for Listener "

read arn

aws elbv2 delete-listener --listener-arn $arn

echo "Delete-listener Sucessfully";;


11) echo "Enter Amazon Resource Name for Rule "

read arn

aws elbv2 delete-rule --rule-arn $arn

echo " Delete-rule Sucessfully";;

*)echo "Invalid choice."

    esac

    echo "-----"

    echo "Enter 1 for continue and 0 for exit."

    read x

done

clear
```

Creating Application Load Balance

```
[pdhatwar@localhost Downloads]$ ./LoadBal.sh
```

```
***** Load-Balancer*****
```

1. Create-load-balancer
2. Create-listener
3. Create-rule
4. Describe-load-balancers
5. Describe-listeners
6. Describe-rules
7. Modify-rule
8. Modify-listener
9. Delete-load-balancer
10. Delete-listener
11. Delete-rule

```
-----  
Enter the choice from above:-
```

```
1
```

```
Enter the load-balancer Name:
```

```
LoadBalancers
```

```
Enter subnet1 :
```

```
subnet-32f48403
```

```
Enter subnet2 :
```

```
subnet-a797bc86
```

```
Enter Type :
```

```
application
```

```
Enter security-groups:
```

```
sg-09012434651f61673
```

```
Enter scheme:
```

```
internet-facing
```

```
Ip-address-type
```

```
ipv4
```

```
{  
  "LoadBalancers": [  
    {  
      "LoadBalancerArn": "arn:aws:elasticloadbalancing:us-east-1:278460603394:loadbalancer/app/LoadBalancers/e49c51bd5e1e6619",  
      "DNSName": "LoadBalancers-1354240414.us-east-1.elb.amazonaws.com",  
      "CanonicalHostedZoneId": "Z35SXDOTR07X7K",  
      "CreatedTime": "2021-12-05T20:18:20.930000+00:00",  
      "LoadBalancerName": "LoadBalancers",  
      "Scheme": "internet-facing",  
      "VpcId": "vpc-b02850cd",  
      "State": {  
        "Code": "provisioning"  
      },  
      "Type": "application",  
      "AvailabilityZones": [  
        {  
          "ZoneName": "us-east-1e",  
          "SubnetId": "subnet-32f48403",  
          "LoadBalancerAddresses": []  
        },  
        {  
          "ZoneName": "us-east-1c",  
          "SubnetId": "subnet-a797bc86",  
          "LoadBalancerAddresses": []  
        }  
      ],  
      "SecurityGroups": [  
        "sg-09012434651f61673"  
      ],  
      "IpAddressType": "ipv4"  
    }  
  ]  
}
```

```
(END)
```

Creating Listener

```
**** Load-Balancer*****
1. Create-load-balancer
2. Create-listener
3. Create-rule
4. Describe-load-balancers
5. Describe-listeners
6. Describe-rules
7. Modify-rule
8. Modify-listener
9. Delete-load-balancer
10. Delete-listener
11. Delete-rule
-----
Enter the choice from above:-
2
Enter Amazon Resource Name for LB
arn:aws:elasticloadbalancing:us-east-1:278460603394:loadbalancer/app/LoadBalancers/e49c51bd5e1e6619
Enter Amazon Resource Name for TG
arn:aws:elasticloadbalancing:us-east-1:278460603394:targetgroup/CLB/94abad9a80d6dffa
Enter Protocol
HTTP
Enter Port
80
```

```
{
  "Listeners": [
    {
      "ListenerArn": "arn:aws:elasticloadbalancing:us-east-1:278460603394:listener/app/LoadBalancers/e49c51bd5e1e6619/483ccd2570a01a56",
      "LoadBalancerArn": "arn:aws:elasticloadbalancing:us-east-1:278460603394:loadbalancer/app/LoadBalancers/e49c51bd5e1e6619",
      "Port": 80,
      "Protocol": "HTTP",
      "DefaultActions": [
        {
          "Type": "forward",
          "TargetGroupArn": "arn:aws:elasticloadbalancing:us-east-1:278460603394:targetgroup/CLB/94abad9a80d6dffa",
          "ForwardConfig": {
            "TargetGroups": [
              {
                "TargetGroupArn": "arn:aws:elasticloadbalancing:us-east-1:278460603394:targetgroup/CLB/94abad9a80d6dffa",
                "Weight": 1
              }
            ],
            "TargetGroupStickinessConfig": {
              "Enabled": false
            }
          }
        }
      ]
    }
  ]
}
```

```
(END)
```

Adding Rule to Targets in Load Balancer

Rule for Target Group ALB

```
[pdhatwar@localhost Downloads]$ ./LoadBal.sh
-----
**** Load-Balancer****
1. Create-load-balancer
2. Create-listener
3. Create-rule
4. Describe-load-balancers
5. Describe-listeners
6. Describe-rules
7. Modify-rule
8. Modify-listener
9. Delete-load-balancer
10. Delete-listener
11. Delete-rule
-----
Enter the choice from above:-
3
Enter Amazon Resource Name for Listener
arn:aws:elasticloadbalancing:us-east-1:278460603394:listener/app/LoadBalancers/e49c51bd5e1e6619/483ccd2570a01a56
Enter Amazon Resource Name for TG
arn:aws:elasticloadbalancing:us-east-1:278460603394:targetgroup/ALB/60c8722f658ddfff
Enter Priority
5
Enter Path
```

```
app
{
  "Rules": [
    {
      "RuleArn": "arn:aws:elasticloadbalancing:us-east-1:278460603394:listener-rule/app/LoadBalancers/e49c51bd5e1e6619/483ccd2570a01a56/732736304ee18b89",
      "Priority": "5",
      "Conditions": [
        {
          "Field": "path-pattern",
          "Values": [
            "$path/*"
          ],
          "PathPatternConfig": {
            "Values": [
              "$path/*"
            ]
          }
        }
      ],
      "Actions": [
        {
          "Type": "forward",
          "TargetGroupArn": "arn:aws:elasticloadbalancing:us-east-1:278460603394:targetgroup/ALB/60c8722f658ddfff",
```

```
          "ForwardConfig": {
            "TargetGroups": [
              {
                "TargetGroupArn": "arn:aws:elasticloadbalancing:us-east-1:278460603394:targetgroup/ALB/60c8722f658ddfff",
                "Weight": 1
              }
            ],
            "TargetGroupStickinessConfig": {
              "Enabled": false
            }
          }
        },
        "IsDefault": false
      ]
    }
  ]
}
(END)
```

Rule for Target Group NLB

```

-----
**** Load-Balancer****
1. Create-load-balancer
2. Create-listener
3. Create-rule
4. Describe-load-balancers
5. Describe-listeners
6. Describe-rules
7. Modify-rule
8. Modify-listener
9. Delete-load-balancer
10. Delete-listener
11. Delete-rule
-----
Enter the choice from above:-
3
Enter Amazon Resource Name for Listener
arn:aws:elasticloadbalancing:us-east-1:278460603394:listener/app/LoadBalancers/e49c51bd5e1e6619/483ccd2570a01a56
Enter Amazon Resource Name for TG
arn:aws:elasticloadbalancing:us-east-1:278460603394:targetgroup/NLB/217cb39b4a4458cb
Enter Priority
10
Enter Path
*net

```

```

{
  "Rules": [
    {
      "RuleArn": "arn:aws:elasticloadbalancing:us-east-1:278460603394:listener-rule/app/LoadBalancers/e49c51bd5e1e6619/483ccd2570a01a56/a7e0fc0f771e8d66",
      "Priority": "10",
      "Conditions": [
        {
          "Field": "path-pattern",
          "Values": [
            "$path/*"
          ],
          "PathPatternConfig": {
            "Values": [
              "$path/*"
            ]
          }
        }
      ]
    }
  ]
}

```

Management Console(Instances, Target Groups, LoadBalancer)

console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:

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<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	
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<input type="checkbox"/>	-	i-091f9eb0237b2f91e	Running	t2.micro	2/2 checks passed	No alarms	+
<input type="checkbox"/>	-	i-0073e6489fb08626a	Running	t2.micro	2/2 checks passed	No alarms	+
<input type="checkbox"/>	-	i-0a850f9d47f16baf	Running	t2.micro	2/2 checks passed	No alarms	+
<input type="checkbox"/>	-	i-01040a4263c248c8e	Running	t2.micro	2/2 checks passed	No alarms	+

Select an instance

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Auto Scaling
Launch Configurations

Create Load Balancer Actions

Filter by tags and attributes or search by keyword

<input checked="" type="checkbox"/>	Name	DNS name	State	VPC ID	Availability Zones
<input checked="" type="checkbox"/>	LoadBalancers	LoadBalancers-1354240414...	Active	vpc-b02850cd	us-east-1e, us-east-1c

Load balancer: LoadBalancers

Description Listeners Monitoring Integrated services Tags

Basic Configuration

Name	LoadBalancers
ARN	arn:aws:elasticloadbalancing:us-east-1:278460603394:loadbalancer/app/LoadBalancers/e49c51bd5e1e6619
DNS name	LoadBalancers-1354240414.us-east-1.elb.amazonaws.com (A Record)

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Network Interfaces

Load Balancing
Load Balancers
Target Groups New

Auto Scaling
Launch Configurations

EC2 > Target groups

Target groups (3) Info

Search or filter target groups

<input type="checkbox"/>	Name	ARN	Port	Protocol	Target type
<input type="checkbox"/>	ALB	arn:aws:elasticloadbalancin...	80	HTTP	Instance
<input type="checkbox"/>	CLB	arn:aws:elasticloadbalancin...	80	HTTP	Instance
<input type="checkbox"/>	NLB	arn:aws:elasticloadbalancin...	80	HTTP	Instance

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OUTPUT:-

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Hello Pranav, Welcome to Load Balancer!!

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Welcome to Application Load Balancer

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Welcome to Network Load Balancer
