

Main Steps:

Creating Launch Configuration.

Creating an Autoscale group with the launch configuration created.

Create target group.

At last, creating load balancer attached with the target group.

The screenshot shows the AWS Management Console in a Mozilla Firefox browser window. The page title is 'EC2 Management Console - Mozilla Firefox'. The URL is 'https://console.aws.amazon.com/ec2/autoscaling/home?region=us-east-1#CreateLaunchConfiguration'. The page is titled 'Create Launch Configuration' and has a progress bar with six steps: 1. Choose AMI, 2. Choose Instance Type, 3. Configure details (active), 4. Add Storage, 5. Configure Security Group, and 6. Review. The 'Configure details' section includes the following fields: 'Name' (vishal-launch), 'Purchasing option' (Request Spot Instances checkbox is unchecked), 'IAM role' (None), and 'Monitoring' (Enable CloudWatch detailed monitoring checkbox is unchecked, with a 'Learn more' link). Below this is an 'Advanced Details' section with a message: 'Later, if you want to use a different launch configuration, you can create a new one and apply it to any Auto Scaling group. Existing launch configurations cannot be edited.' At the bottom right, there are four buttons: 'Cancel', 'Previous', 'Skip to review' (highlighted in blue), and 'Next: Add Storage'. The footer of the console shows 'Feedback', 'English (US)', and copyright information: '© 2008 - 2019, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use'.

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EC2 Management Console - Mozilla Firefox

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https://console.aws.amazon.com/ec2/autoscaling/home?region=us-east-1#CreateLaunchConfiguration

aws Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure details 4. Add Storage 5. Configure Security Group 6. Review

Create Launch Configuration

Name ⓘ vishal-launch

Purchasing option ⓘ ☐ Request Spot Instances

IAM role ⓘ None

Monitoring ⓘ ☐ Enable CloudWatch detailed monitoring [Learn more](#)

► Advanced Details

Later, if you want to use a different launch configuration, you can create a new one and apply it to any Auto Scaling group. Existing launch configurations cannot be edited.

Cancel Previous Skip to review Next: Add Storage

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aws Services Resource Groups qtrainee-ss-role/vishal.bisht@... N. Virginia Support

1. Choose AMI 2. Choose Instance Type 3. Configure details 4. Add Storage 5. Configure Security Group 6. Review

Create Launch Configuration

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☒ Create a new security group ☐ Select an existing security group

Security group name: AutoScaling-Security-PE-Vishal

Description: AutoScaling-Security-Group

Type	Protocol	Port Range	Source
SSH	TCP	22	My IP 59.152.53.122/32
HTTP	TCP	80	My IP 59.152.53.122/32

Add Rule

Cancel Previous Review

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1. Choose AMI 2. Choose Instance Type 3. Configure details 4. Add Storage 5. Configure Security Group 6. Review

Create Launch Configuration

Review the details of your launch configuration. You can go back to edit the details of each section before you finish.

AMI Details [Edit AMI](#)

Free tier eligible **Ubuntu Server 16.04 LTS (HVM), SSD Volume Type - ami-07b4156579ea1d7ba**
Ubuntu Server 16.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).
Root device type: ebs Virtualization Type: hvm

Instance Type [Edit instance type](#)

Launch configuration details [Edit details](#)

Name	vishal-launch
Purchasing option	On demand
EBS Optimized	No
Monitoring	No
IAM role	None
Tenancy	Shared tenancy (multi-tenant hardware)
Kernel ID	Use default
RAM Disk ID	Use default

Cancel Previous Create launch configuration

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https://console.aws.amazon.com/ec2/autoscaling/home?region=us-east-1#CreateAutoSc...

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qtrainee-ss0-role/vishal.bisht@...N. VirginiaSupport

1. Configure Auto Scaling group details2. Configure scaling policies3. Configure Notifications4. Configure Tags5. Review

Create Auto Scaling Group

☐ Keep this group at its initial size

☒ Use scaling policies to adjust the capacity of this group

Scale between 2 and 2 instances. These will be the minimum and maximum size of your group.

Scale Group Size

Name:50

Metric type:Average CPU Utilization

Target value:60

Instances need:60 seconds to warm up after scaling

Disable scale-in:☐

CancelPreviousReviewNext: Configure Notifications

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qtrainee-ss0-role/vishal.bisht@...N. VirginiaSupport

1. Configure Auto Scaling group details2. Configure scaling policies3. Configure Notifications4. Configure Tags5. Review

Create Auto Scaling Group

Cancel and Exit

Group namevishal-autoscale

Launch Configurationvishal-launch

Group sizeStart with 2 instances

Networkvpc-0c9efd91020c77e76 (172.31.0.0/16) (default)Create new VPC

Subnetsubnet-017d283487b5590d6(172.31.0.0/20) | Default in us-east-1dCreate new subnet

Each instance in this Auto Scaling group will be assigned a public IP address.

Advanced Details

CancelNext: Configure scaling policies

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aws Services Resource Groups qtrainee-ssr-role/vishal.bisht@... N. Virginia Support

1. Configure Auto Scaling group details 2. Configure scaling policies 3. Configure Notifications 4. Configure Tags 5. Review

Create Auto Scaling Group

Please review your Auto Scaling group details. You can go back to edit changes for each section. Click **Create Auto Scaling group** to complete the creation of an Auto Scaling group.

▼ Auto Scaling Group Details [Edit details](#)

Group name	vishal-autoscale
Group size	2
Minimum Group Size	2
Maximum Group Size	2
Subnet(s)	subnet-017d283487b5590d6
Health Check Grace Period	300
Detailed Monitoring	No
Instance Protection	None
Service-Linked Role	AWSServiceRoleForAutoScaling

▼ Scaling Policies [Edit scaling policies](#)

50 Maintain metric type Average CPU Utilization at target value 60, with 60 seconds for instances to warm up.

▼ Notifications [Edit notifications](#)

[Cancel](#) [Previous](#) [Create Auto Scaling group](#)

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Auto Scaling group creation status

✓ **Successfully created Auto Scaling group**
[View creation log](#)

▼ View

- [View your Auto Scaling groups](#)
- [View your launch configurations](#)

► Here are some helpful resources to get you started [Close](#)

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Target Groups | EC2 Management Console - Mozilla Firefox

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https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#TargetGroups:sort=targ

aws Services Resource Groups

qtrainee-ss-role/vishal.bisht@... N. Virginia Support

EC2 Dashboard Events Tags Reports Limits INSTANCES Instances Launch Templates Spot Requests Reserved Instances Dedicated Hosts Scheduled Instances Capacity Reservations IMAGES AMIs Bundle Tasks ELASTIC BLOCK STORE Volumes Snapshots Lifecycle Manager

Create target group Actions

Filter by tags and attributes or search by keyword 1 to 24 of 24

Name Port Protocol Target type Load Balanc VPC ID Monitoring

akash-target 80 HTTP Instance vpc-0c9efd91020c77e76

akash-tg

ALB-tg

ansible-TG

austin-target

austin-tg

demo-lb-grp

demo-target-grp

demoWebJasGroup

Select a target group

Create target group

Successfully created target group

Successfully created target group vishal-target in VPC vpc-0c9efd91020c77e76

Close

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Target Groups | EC2 Management Console - Mozilla Firefox

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https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#TargetGroups:sort=targ

aws Services Resource Groups

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EC2 Dashboard Events Tags Reports Limits INSTANCES Instances Launch Templates Spot Requests Reserved Instances Dedicated Hosts Scheduled Instances Capacity Reservations IMAGES AMIs Bundle Tasks ELASTIC BLOCK STORE Volumes Snapshots Lifecycle Manager

Create target group

targets using the health check settings that you specify.

Target group name vishal-target

Target type

Instance

IP

Lambda function

Protocol HTTP

Port 80

VPC vpc-0c9efd91020c77e76 (172.31.0.0/16)

Health check settings

Protocol HTTP

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Instances | EC2 Management Console - Mozilla Firefox

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

aws Services Resource Groups qtrainee-sso-role/vishal.bisht@... N. Virginia Support

EC2 Dashboard
Events
Tags
Reports
Limits
INSTANCES
Instances
Launch Templates
Spot Requests
Reserved Instances
Dedicated Hosts
Scheduled Instances
Capacity Reservations
IMAGES
AMIs
Bundle Tasks
ELASTIC BLOCK STORE
Volumes
Snapshots

Launch Instance Connect Actions

search : vishal Add filter 1 to 5 of 5

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
FresherPE_...	i-0a05b67af2303b9fe	t2.micro	us-east-1a	stopped		None	
PeFreshers-2	i-0caf27c836fc464bf	t2.micro	us-east-1a	stopped		None	
PeFreshers	i-076dff098a270bc8f	t2.micro	us-east-1a	stopped		None	
vishal-target-1	i-052a49655ec989822	t2.micro	us-east-1d	running	Initializing	None	ec2-18-215-62-33.com
vishal-target-2	i-0d5b816cc44bf0694	t2.micro	us-east-1d	running	2/2 checks ...	None	ec2-34-200-252-198.cc

Instance: i-0d5b816cc44bf0694 (vishal-target-2) Public DNS: ec2-34-200-252-198.compute-1.amazonaws.com

Description Status Checks Monitoring Tags

Instance ID i-0d5b816cc44bf0694 Public DNS (IPv4) ec2-34-200-252-198.compute-1.amazonaws.com
Instance state running IPv4 Public IP 34.200.252.198
Instance type t2.micro IPv6 IPs -

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1. Configure Load Balancer 2. Configure Security Settings 3. Configure Security Groups 4. Configure Routing 5. Register Targets 6. Review

Step 1: Configure Load Balancer

Name vishal-lb

Scheme ☒ internet-facing ☐ internal

IP address type ipv4

Listeners

A listener is a process that checks for connection requests, using the protocol and port that you configured.

Load Balancer Protocol	Load Balancer Port
HTTP	80

Add listener

Availability Zones

Cancel Next: Configure Security Settings

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1. Configure Load Balancer2. Configure Security Settings3. Configure Security Groups4. Configure Routing5. Register Targets6. Review

Step 4: Configure Routing

Target group

Target groupExisting target group

Namevishal-target

Target type

Instance

IP

Lambda function

ProtocolHTTP

Port80

Health checks

ProtocolHTTP

Path

CancelPreviousNext: Register Targets

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awsServicesResource Groups

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1. Configure Load Balancer2. Configure Security Settings3. Configure Security Groups4. Configure Routing5. Register Targets6. Review

Step 3: Configure Security Groups

A security group is a set of firewall rules that control the traffic to your load balancer. On this page, you can add rules to allow specific traffic to reach your load balancer. First, decide whether to create a new security group or select an existing one.

Assign a security group:

Create a new security group

Select an existing security group

Security group name:load-balancer-vishal

Description:load-balancer-wizard-5 created on 2019-06-18T16:40:36.146+05:30

Type	Protocol	Port Range	Source
SSH	TCP	22	My IP59.152.53.122/32
HTTP	TCP	80	My IP59.152.53.122/32

Add Rule

CancelPreviousNext: Configure Routing

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1. Configure Load Balancer 2. Configure Security Settings 3. Configure Security Groups 4. Configure Routing 5. Register Targets 6. Review

Step 5: Register Targets

Register targets with your target group. If you register a target in an enabled Availability Zone, the load balancer starts routing requests to the targets as soon as the registration process completes and the target passes the initial health checks.

Registered targets

The following targets are registered with the target group that you selected. You can only modify this list after you create the load balancer.

Instance	Port
i-052a49655ec989822	80
i-0d5b816cc44bf0694	80

Cancel Previous Next: Review

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https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#V2CreateELBWizard:ty...

aws Services Resource Groups qtrainee-ss-role/vishal.bisht@... N. Virginia Support

Load Balancer Creation Status

✓ **Successfully created load balancer**

Load balancer **vishal-lb** was successfully created.

Note: It might take a few minutes for your load balancer to be fully set up and ready to route traffic, and for the targets to complete the registration process and pass the initial health checks.

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