

NAME: RAVITEJA KOMMALAPATI
STUDENT ID: 012526358
ASSIGNMENT: CMPE 281 - LAB #2 – Elastic Load Balancer

Auto Scaling group with 2 Instances in Service. I have configured 2 desired instances and maximum to 3.

The screenshot displays the AWS Management Console interface for an Auto Scaling Group. The left sidebar shows the navigation menu with categories like INSTANCES, IMAGES, ELASTIC BLOCK STORE, and NETWORK & SECURITY. The main content area shows the 'Auto Scaling Group: aws-php-autoscale' page. The 'Instances' tab is selected, showing a table of instances. The table has columns for Instance ID, Lifecycle, Launch Configuration / Template, Availability Zone, Health Status, and Protected from. Two instances are listed, both in 'InService' state with a 'Healthy' status. The top of the page shows the 'Create Auto Scaling group' button and the 'Actions' dropdown. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and the user's name 'RAVITEJA KOMMALAPATI'.

Name	Launch Configuration /	Instances	Desired	Min	Max	Availability Zones	Default Cooldown	Health Check Grac
aws-php-autos...	aws-php-autoscale	2	2	2	3	us-west-2a, us-west-2c	300	300

Auto Scaling Group: aws-php-autoscale

Details | Activity History | Scaling Policies | **Instances** | Monitoring | Notifications | Tags | Scheduled Actions | Lifecycle Hooks

Actions

Instance ID	Lifecycle	Launch Configuration / Template	Availability Zone	Health Status	Protected from
i-0bf555dfd57425808	InService	aws-php-autoscale	us-west-2c	Healthy	
i-0ddee99e266e2a918	InService	aws-php-autoscale	us-west-2a	Healthy	

Created Classic Load balancer that takes the traffic and distribute to available instances in the running Scaling group.

As there are 2 instances up and running in the Scaling group we can see in the screen shot status 2 instances in service in 2 different Availability Zones us-west-2c and us-west-2a

The screenshot displays the AWS Management Console interface for a Classic Load Balancer. The top navigation bar shows the user is logged in as RAVITEJA KOMMALAPATI in the Oregon region. The left sidebar lists various AWS services, with 'EC2 Dashboard' and 'Load Balancers' highlighted. The main content area shows the 'aws-php-elb-classic' load balancer details.

Load balancer: aws-php-elb-classic

Basic Configuration

Property	Value
Name	aws-php-elb-classic
* DNS name	aws-php-elb-classic-1180294089.us-west-2.elb.amazonaws.com (A Record)
Type	Classic (Migrate Now)
Scheme	internet-facing
Availability Zones	subnet-09ecf09b50702a902 - us-west-2c, subnet-0ce0079a24ac38c38 - us-west-2a
Creation time	February 4, 2019 at 8:51:20 AM UTC-8
Hosted zone	Z1H1FL5HABSF5
Status	2 of 2 instances in service
VPC	vpc-093abca85ffc477fd

Port Configuration

Port Configuration	Value
80 (HTTP) forwarding to 80 (HTTP)	Stickiness: Disabled

[Edit stickiness](#)

Security

Instances screen shot in Load Balancer

The screenshot shows the AWS Management Console interface for the 'aws-php-elb-classic' load balancer. The 'Instances' tab is selected, displaying a table of instances and their associated availability zones.

Load balancer: aws-php-elb-classic

Connection Draining: Enabled, 300 seconds (Edit)

Edit Instances

Instance ID	Name	Availability Zone	Status	Actions
i-0ddee99e266e2a918		us-west-2a	InService ⓘ	Remove from Load Balancer
i-0bf555dfd57425808		us-west-2c	InService ⓘ	Remove from Load Balancer

Edit Availability Zones

Availability Zone	Subnet ID	Subnet CIDR	Instance Count	Healthy?	Actions
us-west-2c	subnet-09ecf09b50702a902	10.0.0.128/25	1	Yes	Remove from Load Balancer
us-west-2a	subnet-0ce0079a24ac38c38	10.0.0.0/25	1	Yes	Remove from Load Balancer

Health Check Screen Shot

The screenshot shows the AWS Management Console interface for the 'aws-php-elb-classic' load balancer. The 'Health check' tab is selected, displaying the configuration for the health check.

Load balancer: aws-php-elb-classic

Health check

Ping Target: HTTP:80/index.html

Timeout: 5 seconds

Interval: 30 seconds

Unhealthy threshold: 2

Healthy threshold: 4

Edit Health Check

Auto Scale group configured to Load balancer and instances in 2 different zones

The screenshot displays the AWS Management Console interface. The main window shows the 'Edit details - aws-php-autoscale' dialog box, which is used to configure an Auto Scaling Group. The dialog is set to 'Launch Configuration' mode. The configuration includes:

- Launch Instances Using:** Launch Configuration (selected).
- Launch Configuration:** aws-php-autoscale.
- Desired Capacity:** 2.
- Min:** 2.
- Max:** 3.
- Availability Zone(s):** us-west-2a, us-west-2c.
- Subnet(s):** subnet-0ce0079a24ac38c38 (Public), subnet-09ecf09b50702a902 (Public).
- Classic Load Balancers:** aws-php-elb-classic.
- Target Groups:** (empty).
- Health Check Type:** EC2.
- Health Check Grace Period:** 300.
- Instance Protection:** (unchecked).

The background shows the AWS console sidebar with navigation links for EC2 Dashboard, INSTANCES, IMAGES, ELASTIC BLOCK STORE, and NETWORK & SECURITY. The right sidebar shows the 'Lifecycle Hooks' section for the 'aws-php-autoscale' group, listing hooks for 'us-west-2a, us-west-2c' and 'aws-php-elb-classic'.