AWS Autoscaling

For the practice of autoscaling we need a ec2 instances with below details.

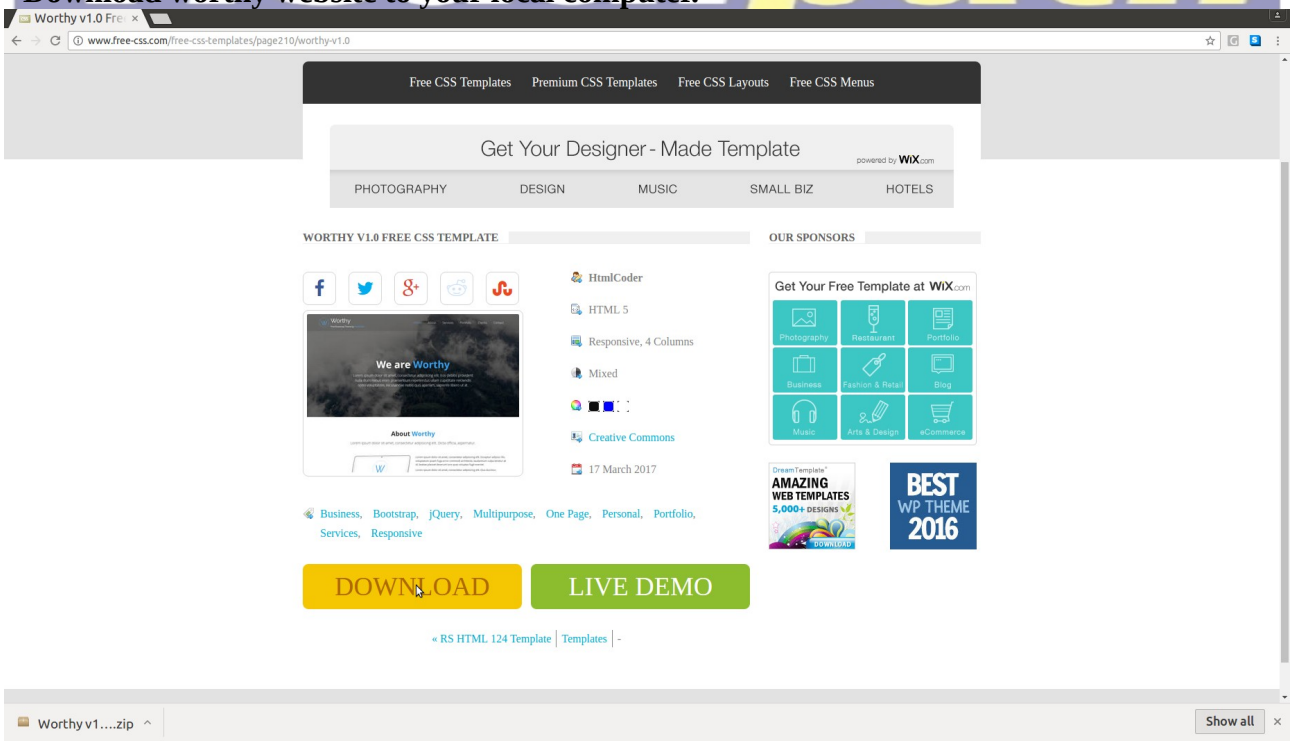
- OS - Centos 6
- Type – t2.micro
- Security group – SSH ==> myIP, HTTP ==> Anywhere
- Private key for access
- Instance with HTTPD running and serving some html website.

You can get a sample website from below link.
http://www.free-css.com/free-css-templates

For the sake of example I have taken Website template named **Worthy.**
Follow below steps to setup worthy website on our ec2 instance.

1. Setup Website on EC2.

- Download worthy website to your local computer.



- Copy the website file using scp to the ec2 instance.

```
imran@DevOps:~/keys$ scp -i worthy-ncalifornia.pem /home/imran/Downloads/Worthy\ v1.0\ Free\ Website\ Templa
te\ -\ Free-CSS.com.zip centos@54.193.0.30:/tmp
Worthy v1.0 Free Website Template - Free-CSS.com.zip                    100% 1381KB 276.3KB/s   00:05
imran@DevOps:~/keys$ ssh -i worthy-ncalifornia.pem centos@54.193.0.30
[centos@ip-172-31-6-243 ~]$ sudo -i
```

- Install HTTPD and setup website.

```
imran@DevOps: /tmp                    root@ip-172-31-6-243:~
[root@ip-172-31-6-243 ~]# yum install httpd -y
```

```
File Edit View Search Terminal Tabs Help
imran@DevOps: /tmp                                  root@ip-172-31-6-243:~
[root@ip-172-31-6-243 ~]# service httpd start
Starting httpd:                                            [  OK  ]
[root@ip-172-31-6-243 ~]# service iptables stop
iptables: Setting chains to policy ACCEPT: filter          [  OK  ]
iptables: Flushing firewall rules:                         [  OK  ]
iptables: Unloading modules:                               [  OK  ]
[root@ip-172-31-6-243 ~]# chkconfig httpd on
[root@ip-172-31-6-243 ~]# chkconfig iptables off
```

```
[root@ip-172-31-6-243 html]# yum install unzip -y
```

```
File Edit View Search Terminal Tabs Help
imran@DevOps: ~/Downloads                           root@ip-172-31-6-243:/var/www/html
[root@ip-172-31-6-243 ~]# cp /tmp/Worthy\ v1.0\ Free\ Website\ Template\ -\ Free-CSS.com.zip /var/www/html/
[root@ip-172-31-6-243 ~]# cd /var/www/html/
[root@ip-172-31-6-243 html]# ls
Worthy v1.0 Free Website Template - Free-CSS.com.zip
[root@ip-172-31-6-243 html]# unzip Worthy\ v1.0\ Free\ Website\ Template\ -\ Free-CSS.com.zip > /dev/null
[root@ip-172-31-6-243 html]# ls
worthy_v.1.0  Worthy v1.0 Free Website Template - Free-CSS.com.zip
[root@ip-172-31-6-243 html]# mv worthy_v.1.0/* .
[root@ip-172-31-6-243 html]# ls
bootstrap  images      plugins     worthy_v.1.0
css        index.html  README.md   Worthy v1.0 Free Website Template - Free-CSS.com.zip
fonts      js          ReadMe.txt
[root@ip-172-31-6-243 html]# rm -rf worthy_v.1.0/ Worthy\ v1.0\ Free\ Website\ Template\ -\ Free-CSS.com.zip

[root@ip-172-31-6-243 html]# ls
bootstrap  css  fonts  images  index.html  js  plugins  README.md  ReadMe.txt
[root@ip-172-31-6-243 html]#
```

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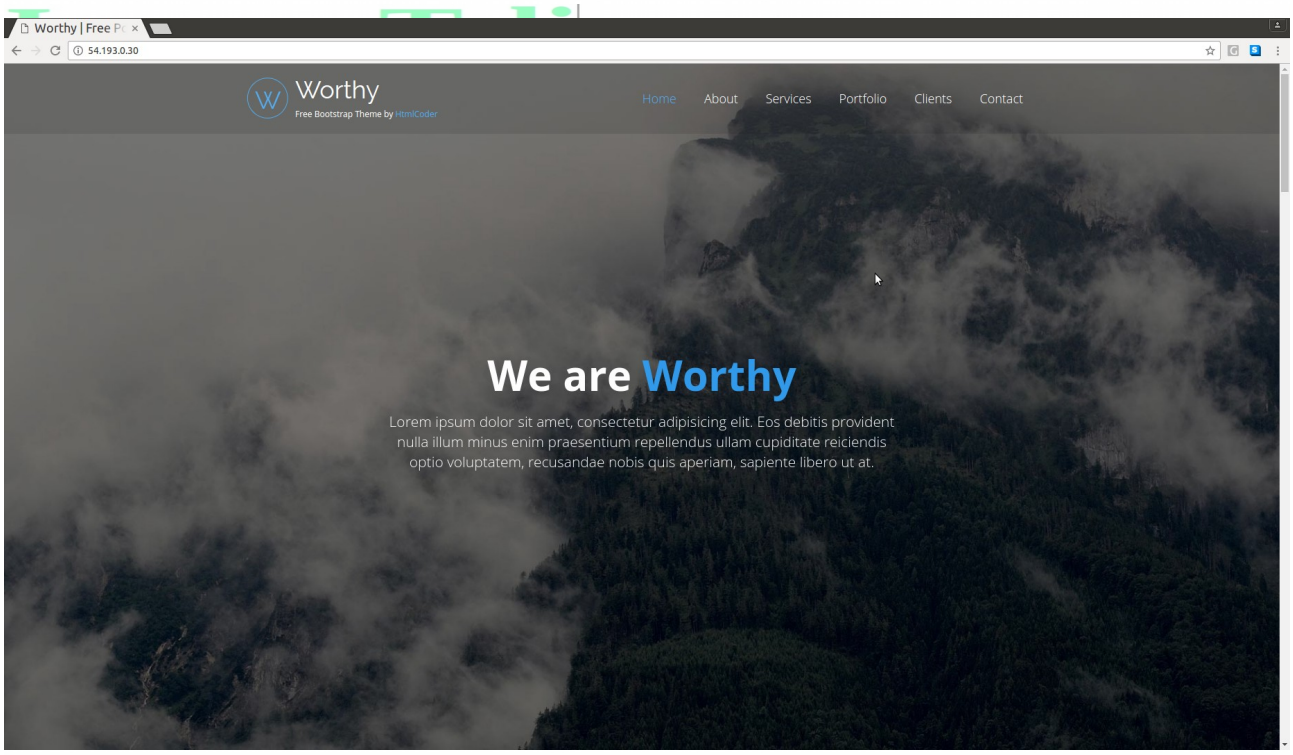
- Test the website by accessing ec2 instance public IP from browser.



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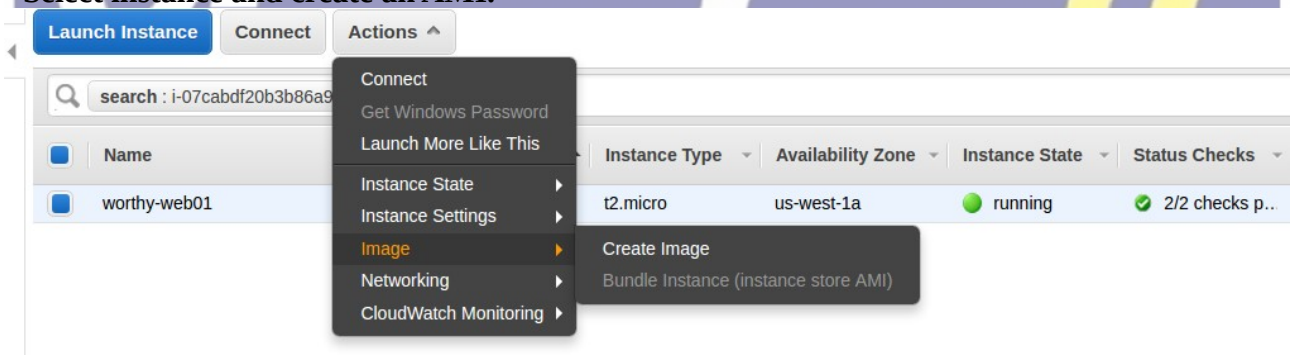
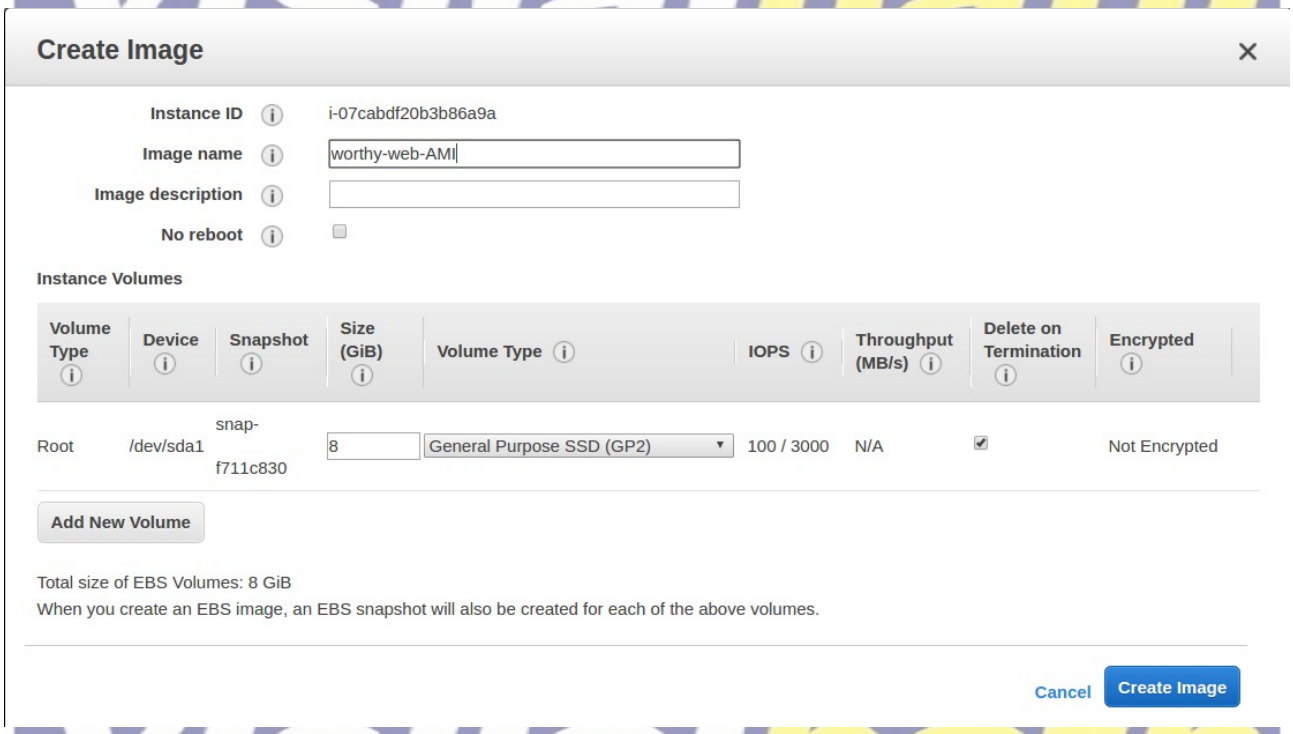
2. Setting up AMI.

Now once we have our instance ready we will create an AMI for the purpose of autoscaling.

- Select instance and create an AMI.





3. Creating AWS ELB

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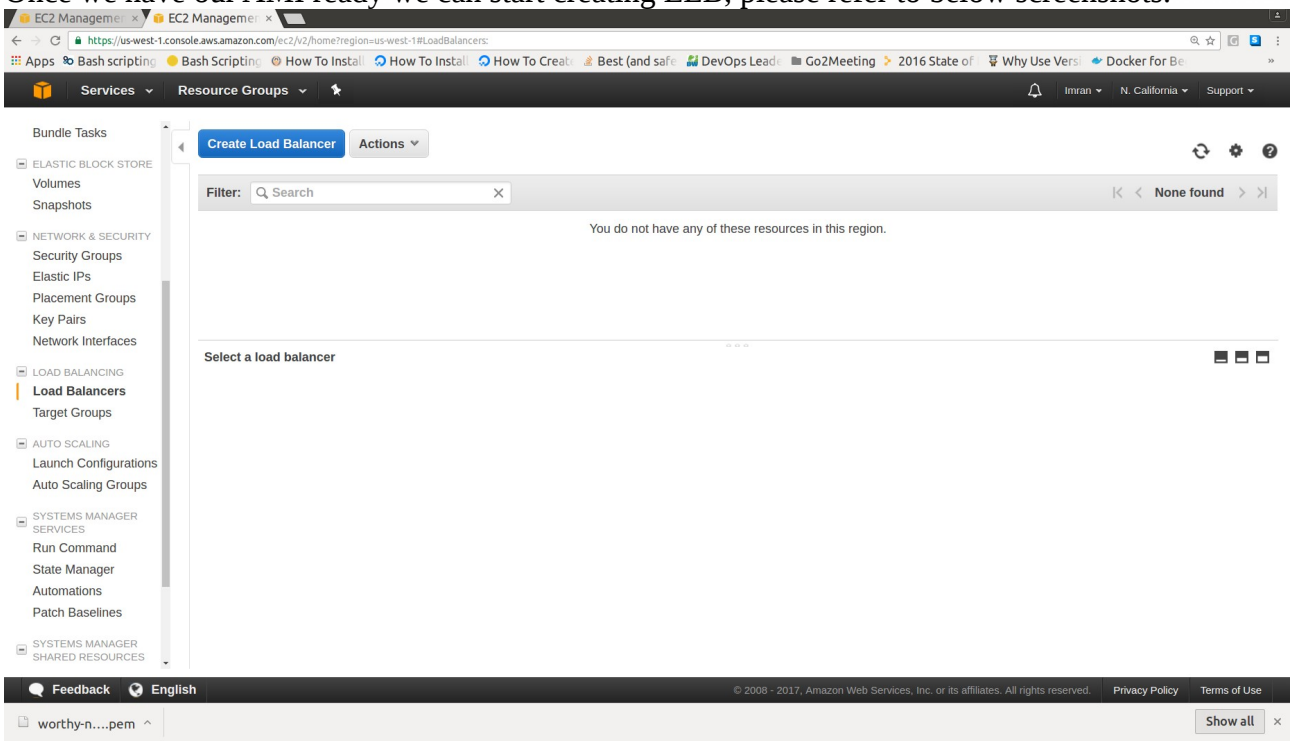
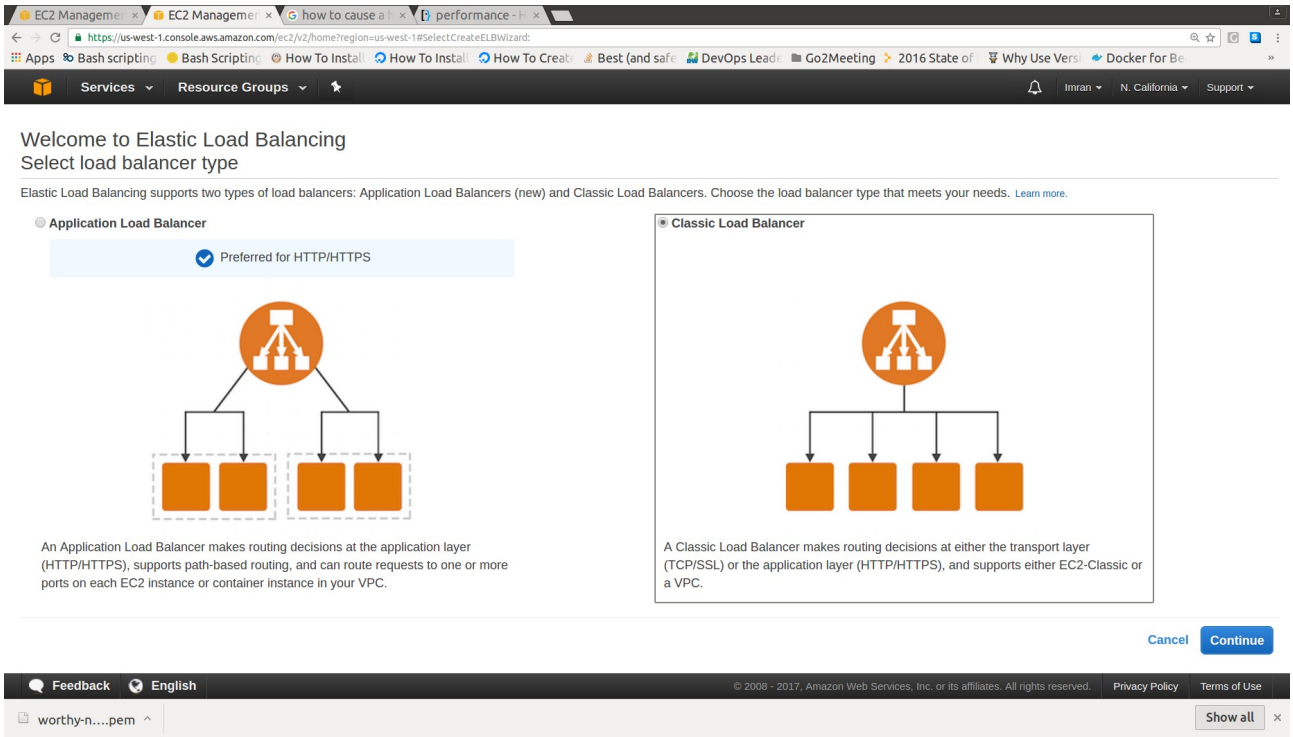
Once we have our AMI ready we can start creating ELB, please refer to below screenshots.





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https://us-west-1.console.aws.amazon.com/ec2/v2/home?region=us-west-1#CreateELBWizard:

Apps | Bash scripting | Bash Scripting | How To Install | How To Install | How To Creat | Best (and safe | DevOps Leade | Go2Meeting | 2016 State of | Why Use Versi | Docker for Be

Services | Resource Groups | Imran | N. California | Support

1. Define Load Balancer | 2. Assign Security Groups | 3. Configure Security Settings | 4. Configure Health Check | 5. Add EC2 Instances | 6. Add Tags | 7. Review

Step 1: Define Load Balancer

Basic Configuration

This wizard will walk you through setting up a new load balancer. Begin by giving your new load balancer a unique name so that you can identify it from other load balancers you might create. You will also need to configure ports and protocols for your load balancer. Traffic from your clients can be routed from any load balancer port to any port on your EC2 instances. By default, we've configured your load balancer with a standard web server on port 80.

Load Balancer name: worthy-web-elb

Create LB Inside: My Default VPC (172.31.0.0/16)

Create an internal load balancer: (what's this?)

Enable advanced VPC configuration:

Listener Configuration:

Load Balancer Protocol	Load Balancer Port	Instance Protocol	Instance Port
HTTP	80	HTTP	80

Add

Cancel | Next: Assign Security Groups

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worthy-n....pem | Show all

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https://us-west-1.console.aws.amazon.com/ec2/v2/home?region=us-west-1#CreateELBWizard:

Apps | Bash scripting | Bash Scripting | How To Install | How To Install | How To Creat | Best (and safe | DevOps Leade | Go2Meeting | 2016 State of | Why Use Versi | Docker for Be

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1. Define Load Balancer | 2. Assign Security Groups | 3. Configure Security Settings | 4. Configure Health Check | 5. Add EC2 Instances | 6. Add Tags | 7. Review

Step 2: Assign Security Groups

You have selected the option of having your Elastic Load Balancer inside of a VPC, which allows you to assign security groups to your load balancer. Please select the security groups to assign to this load balancer. This can be changed at any time.

Assign a security group: Create a **new** security group

Select an **existing** security group

Security group name: worthy-elb-sg

Description: worthy-elb-sg

Type	Protocol	Port Range	Source
Custom TCP Rule	TCP	80	Anywhere 0.0.0.0/0

Add Rule

Cancel | Previous | Next: Configure Security Settings

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worthy-n....pem | Show all

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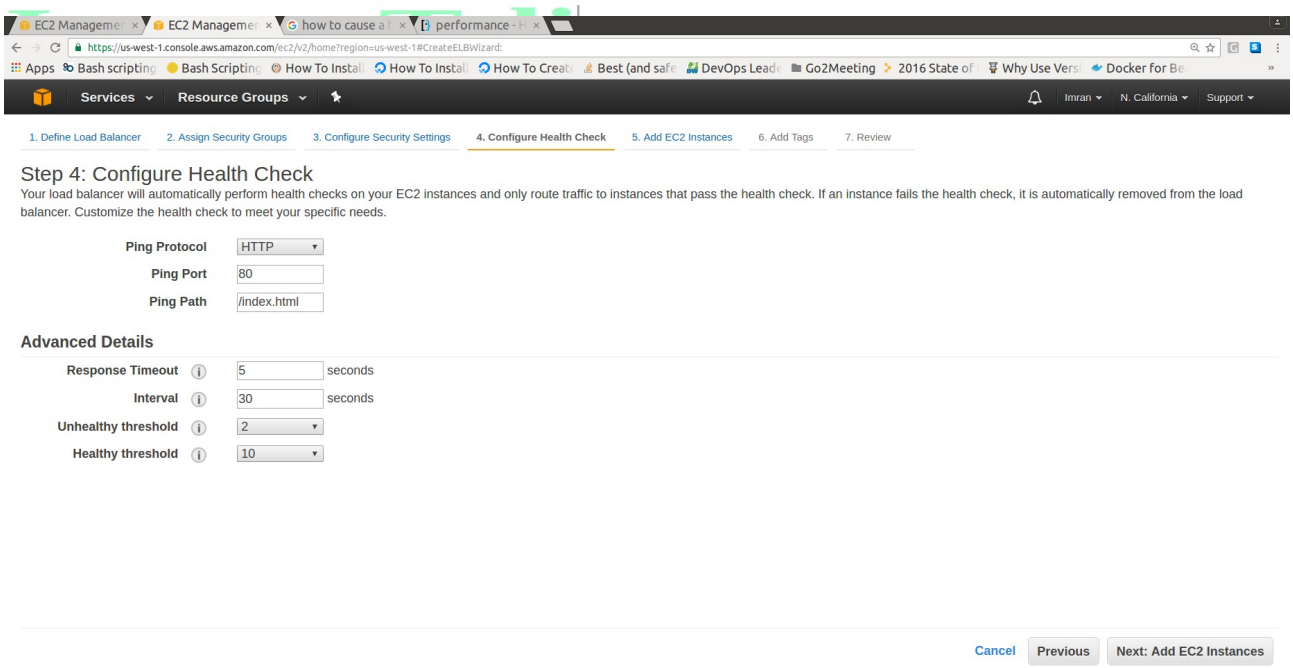

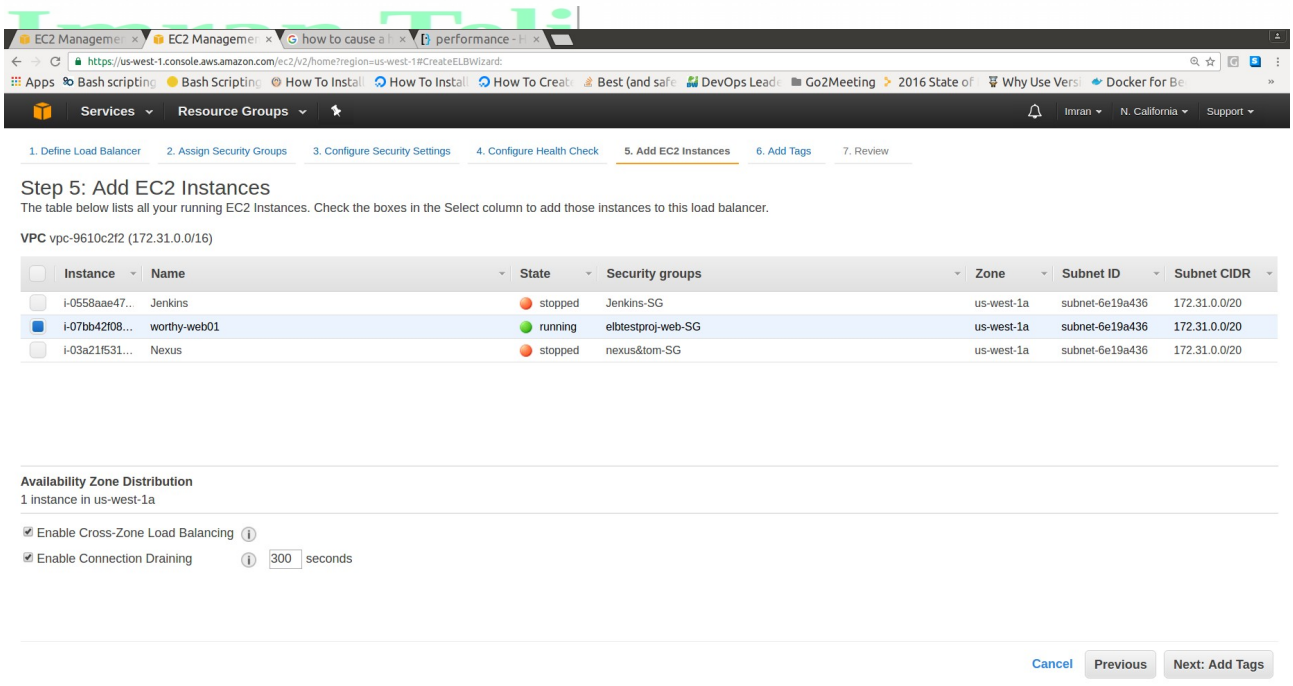

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- Once we have our ELB ready, wait for the instance in ELB to become healthy and use ELB DNS name to verify if the Worthy website is accessible.

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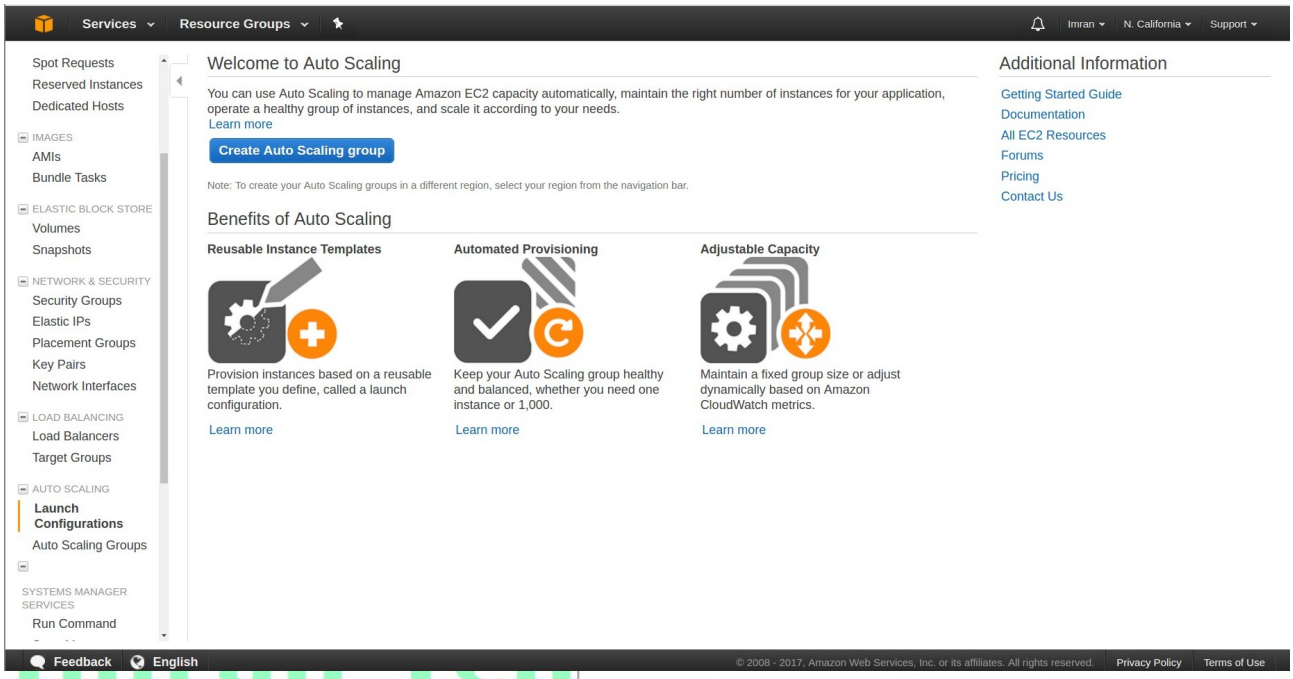
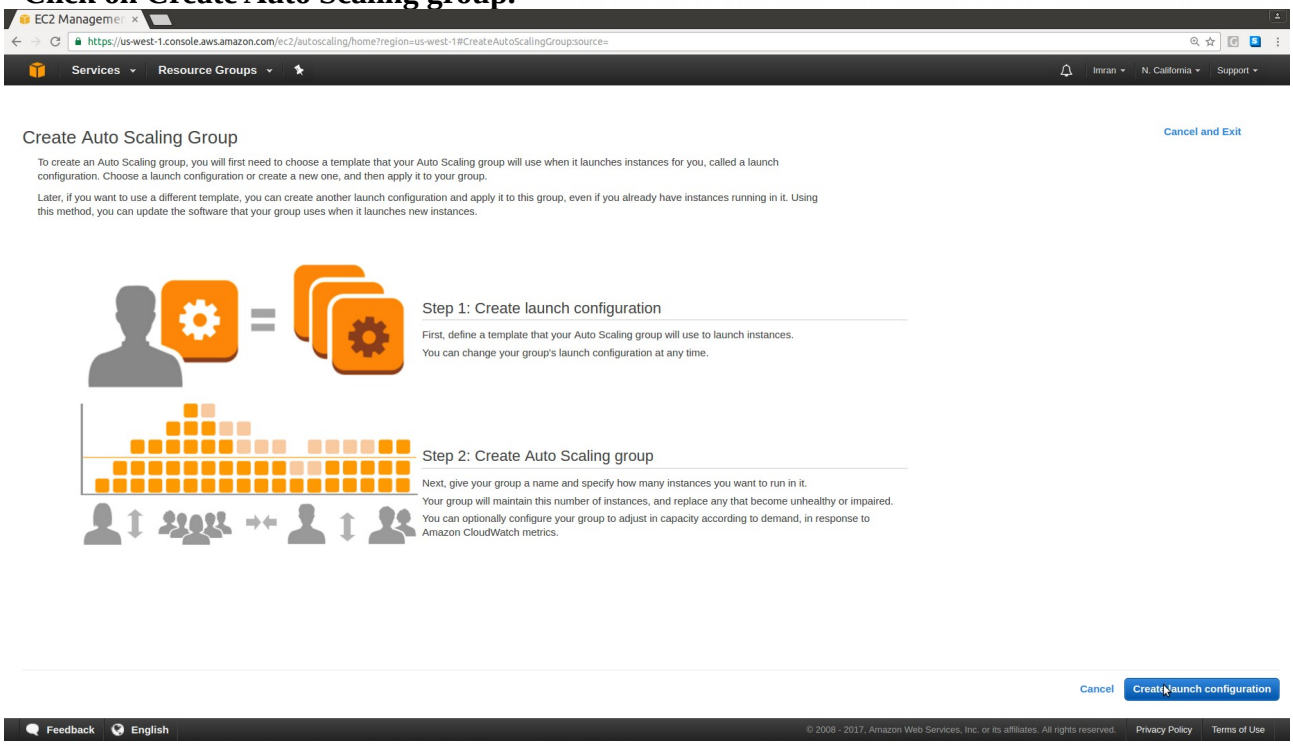
4. Create Launch Configuration.

First we need to create launch configuration in Auto Scaling which defines the AMI which Auto scaling will use to create new instances.



- Click on Create Auto Scaling group.



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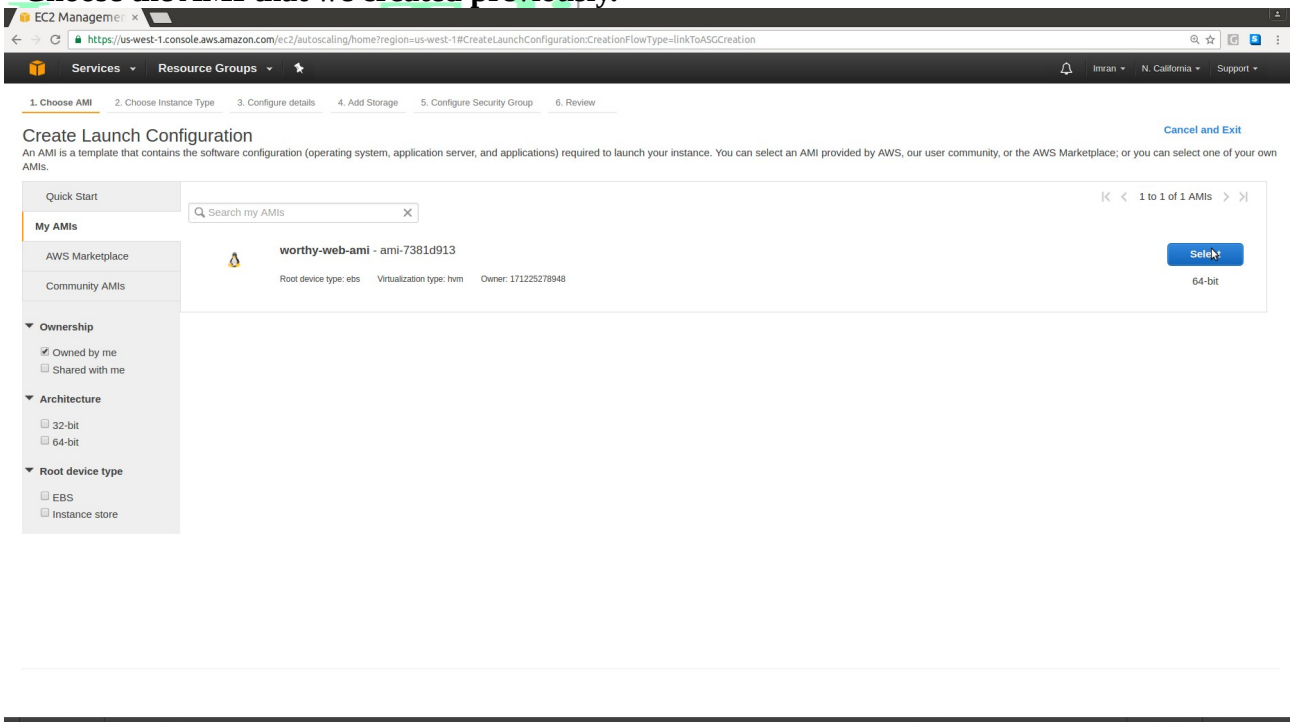
- Choose the AMI that we created previously.



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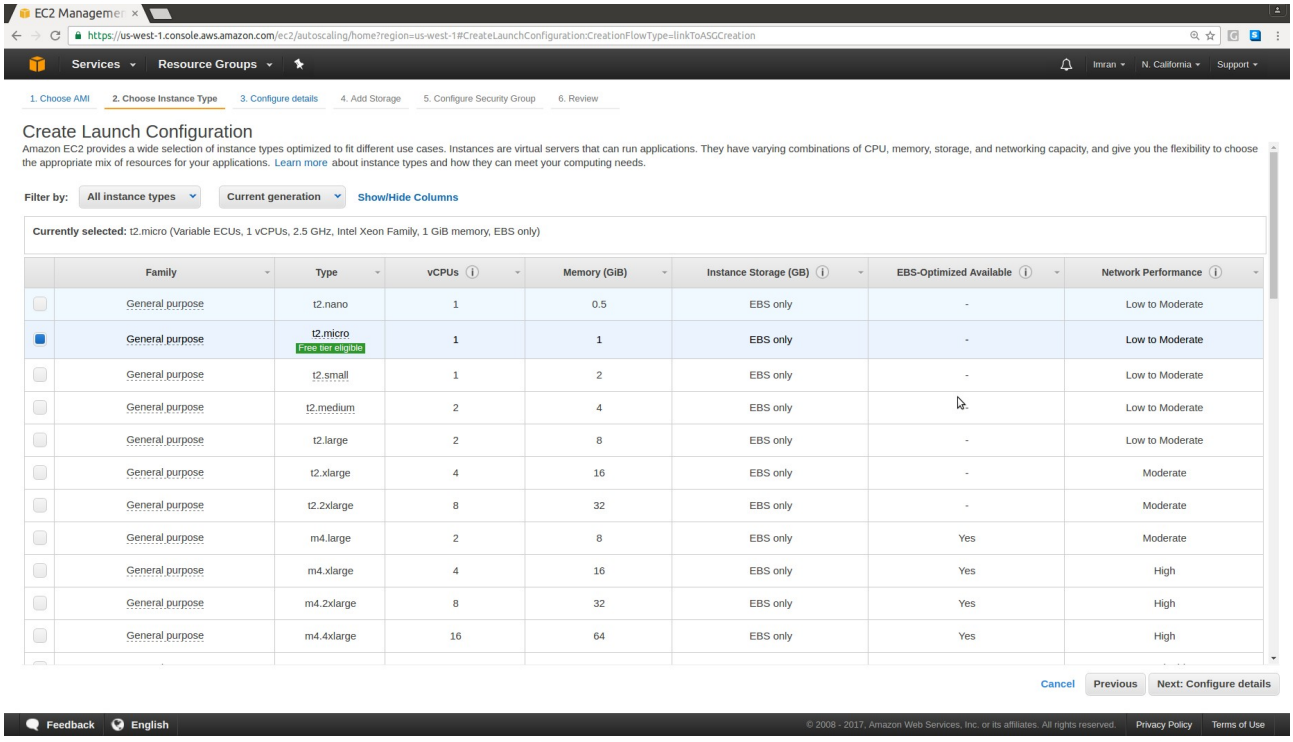
- Select t2.micro for free tier.



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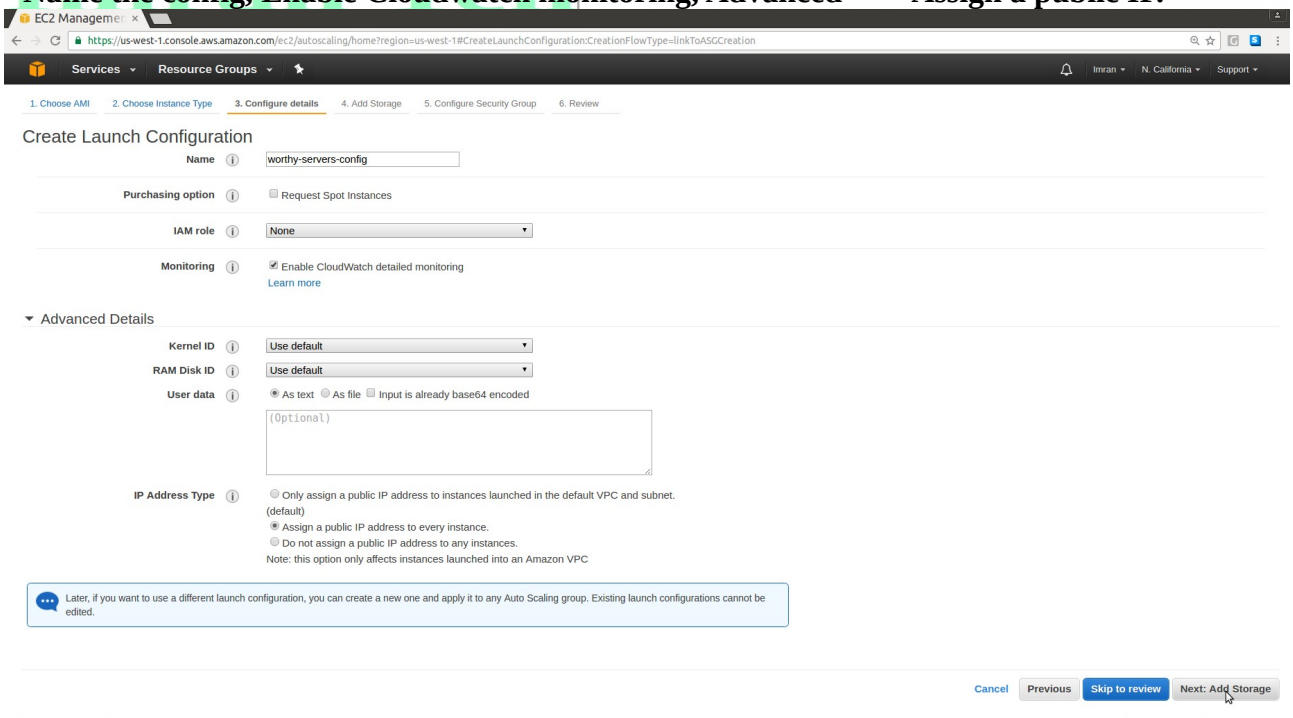
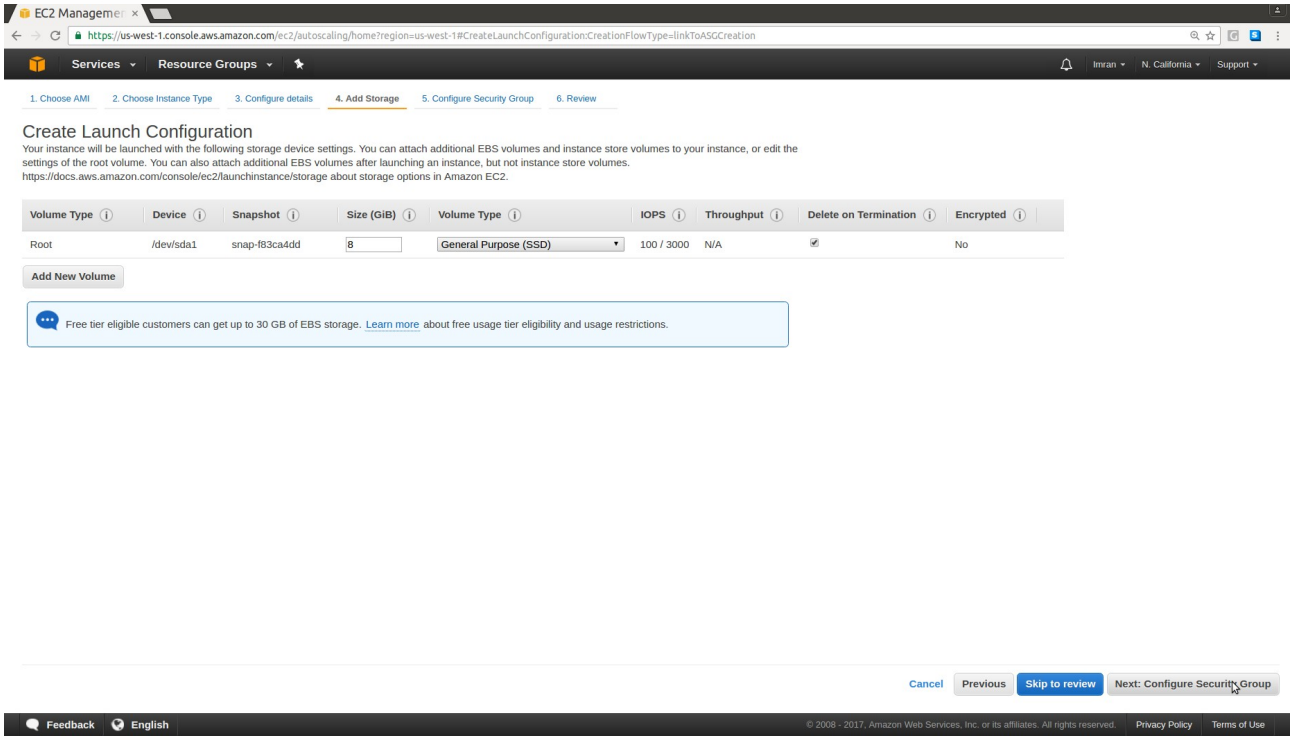
- **Name the config, Enable Cloudwatch monitoring, Advanced ==> Assign a public IP.**





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

Services | Resource Groups | Imran | N. California | 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: Worthy-autoscaling-sg

Description: Worthy-autoscaling-sg

Type	Protocol	Port Range	Source	
SSH	TCP	22	My IP	183.82.216.42/32
HTTP	TCP	80	Anywhere	0.0.0.0/0

Add Rule

Cancel | Previous | Review

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

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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

worthy-web-ami - ami-7381d913

Root device type: ebs Virtualization Type: hvm

Instance Type

Edit instance type

Instance Type	ECUs	vCPUs	Memory GiB	Instance Storage (GiB) GiB	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

Launch configuration details

Edit details

Name worthy-servers-config
Purchasing option On demand
EBS Optimized No
Monitoring Yes
IAM role None
Tenancy Shared tenancy (multi-tenant hardware)
Kernel ID Use default
RAM Disk ID Use default
User data
IP Address Type Only assign a public IP address to instances launched in the default VPC and subnet. (default)

Storage

Edit storage

Cancel | Previous | Create launch configuration

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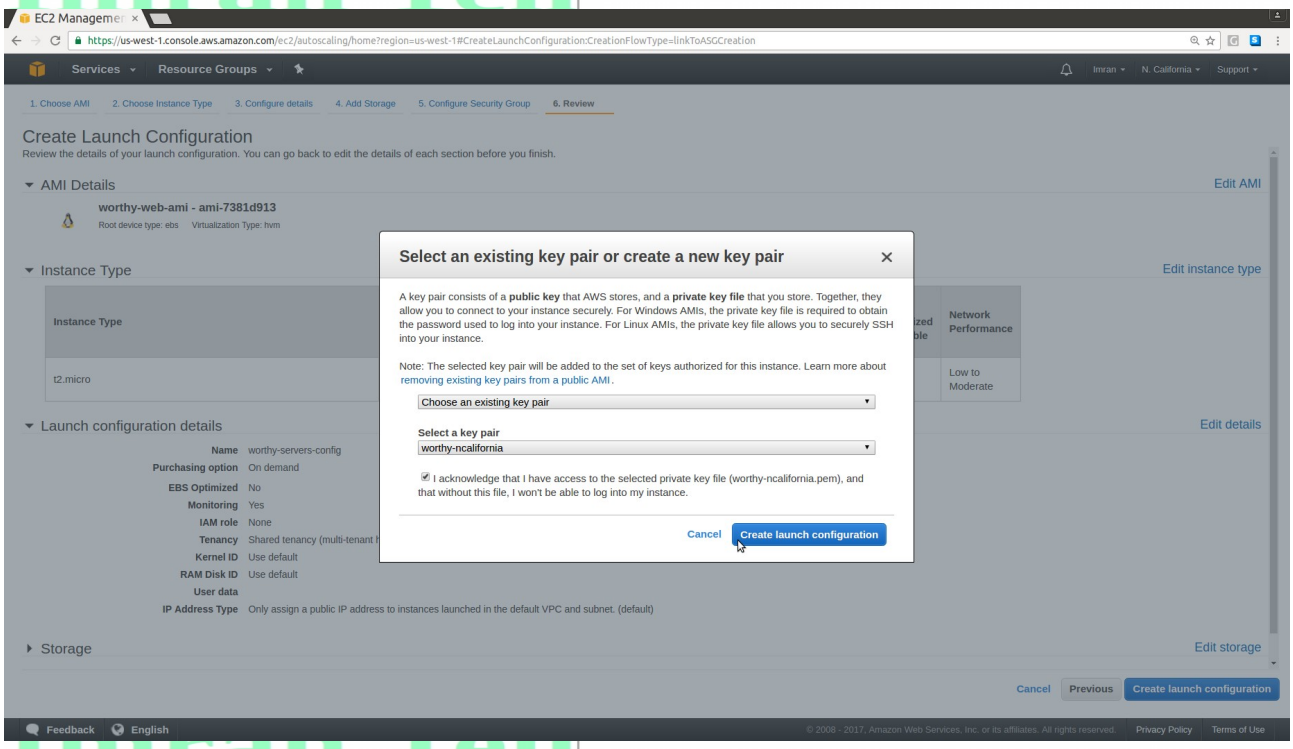

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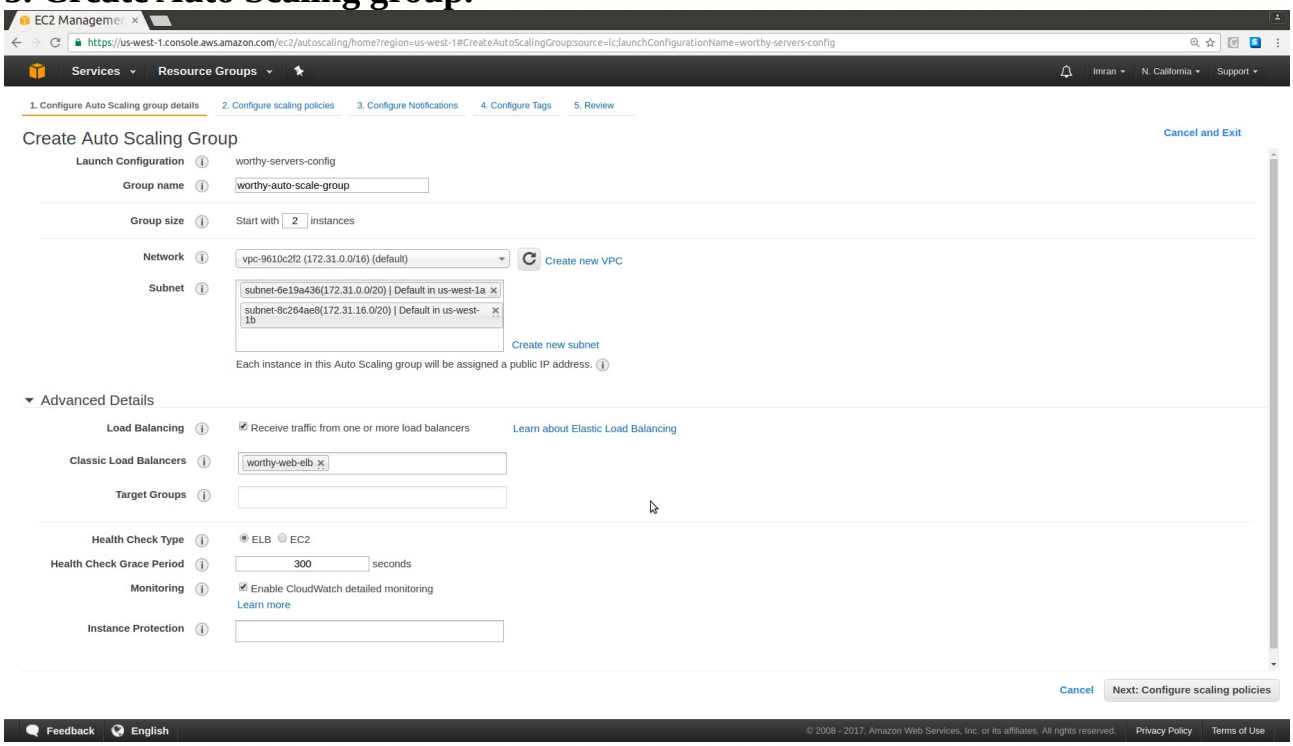
5. Create Auto Scaling group.



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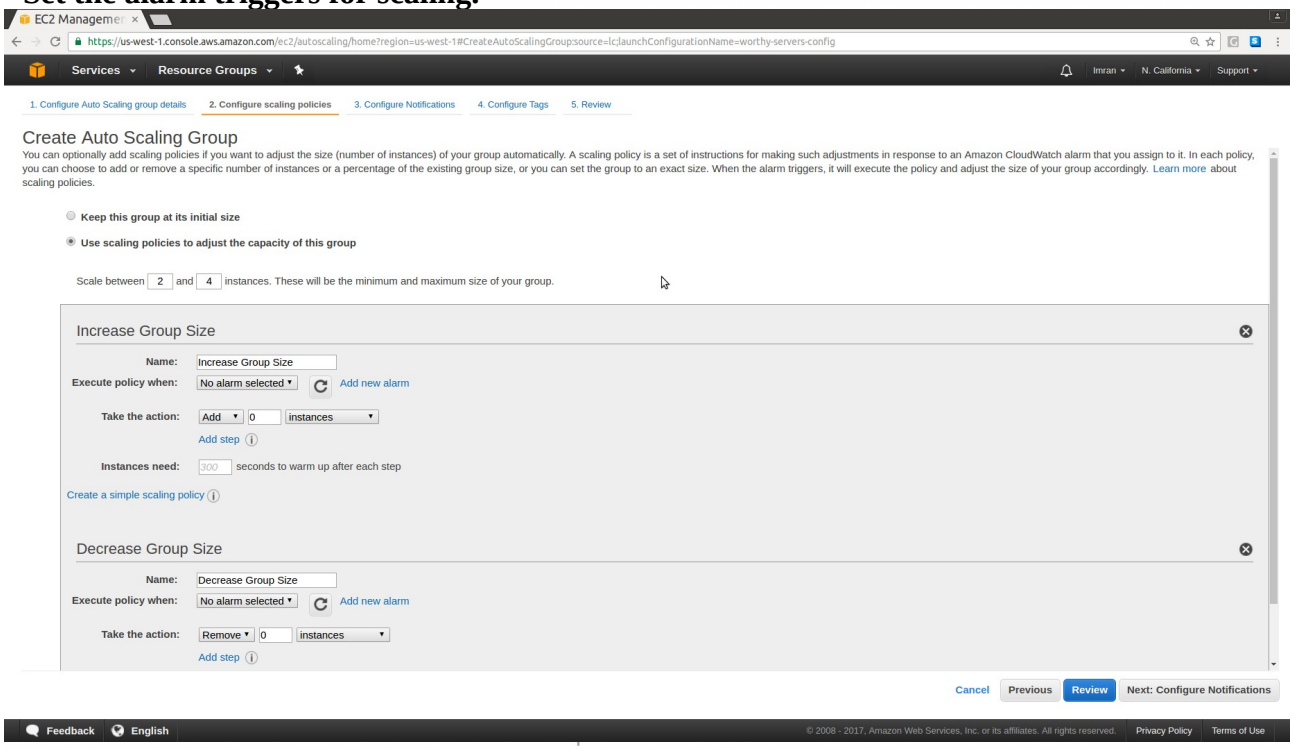
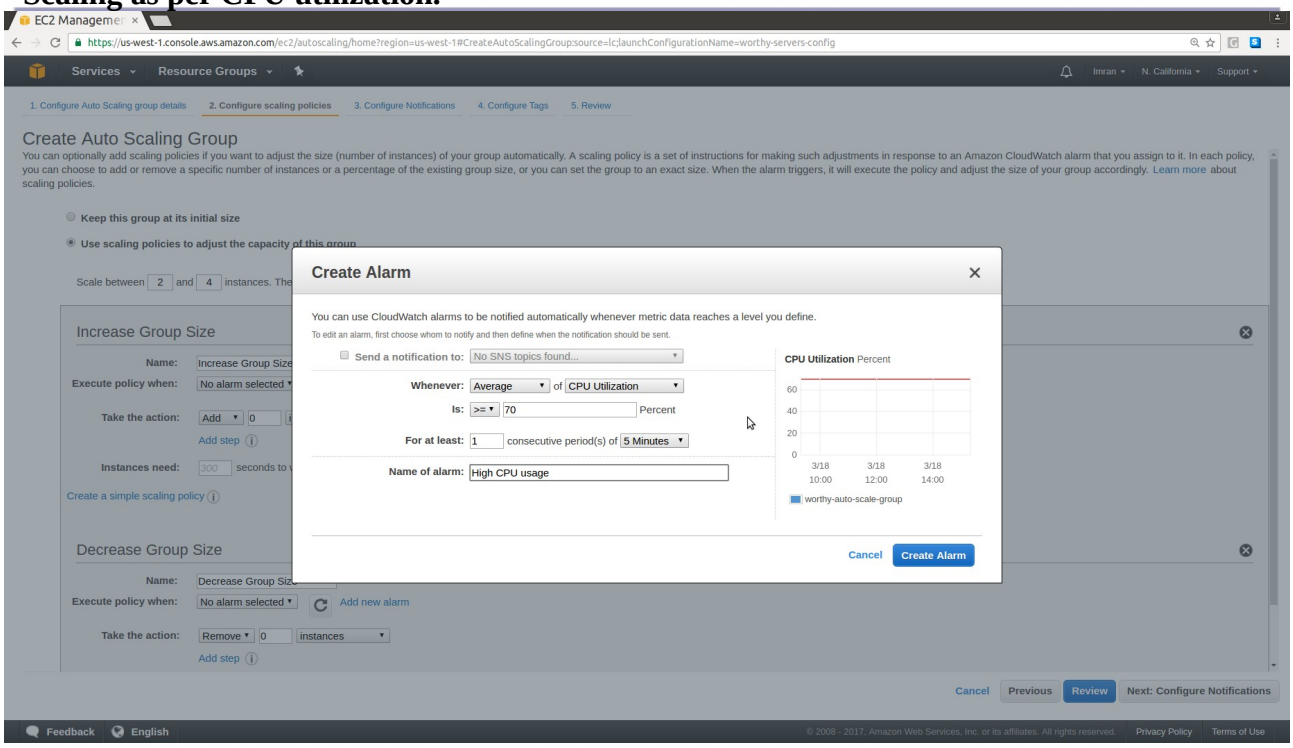
- Set the alarm triggers for scaling.



- Scaling as per CPU utilization.



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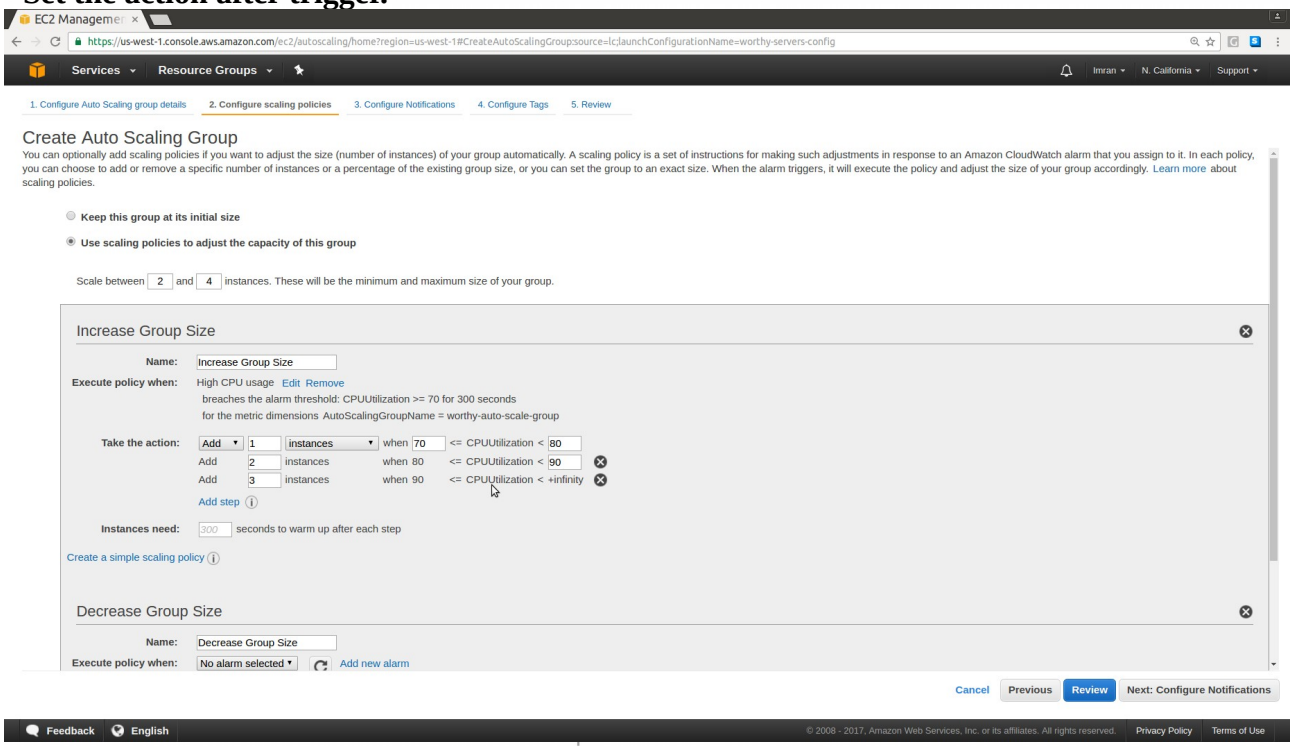
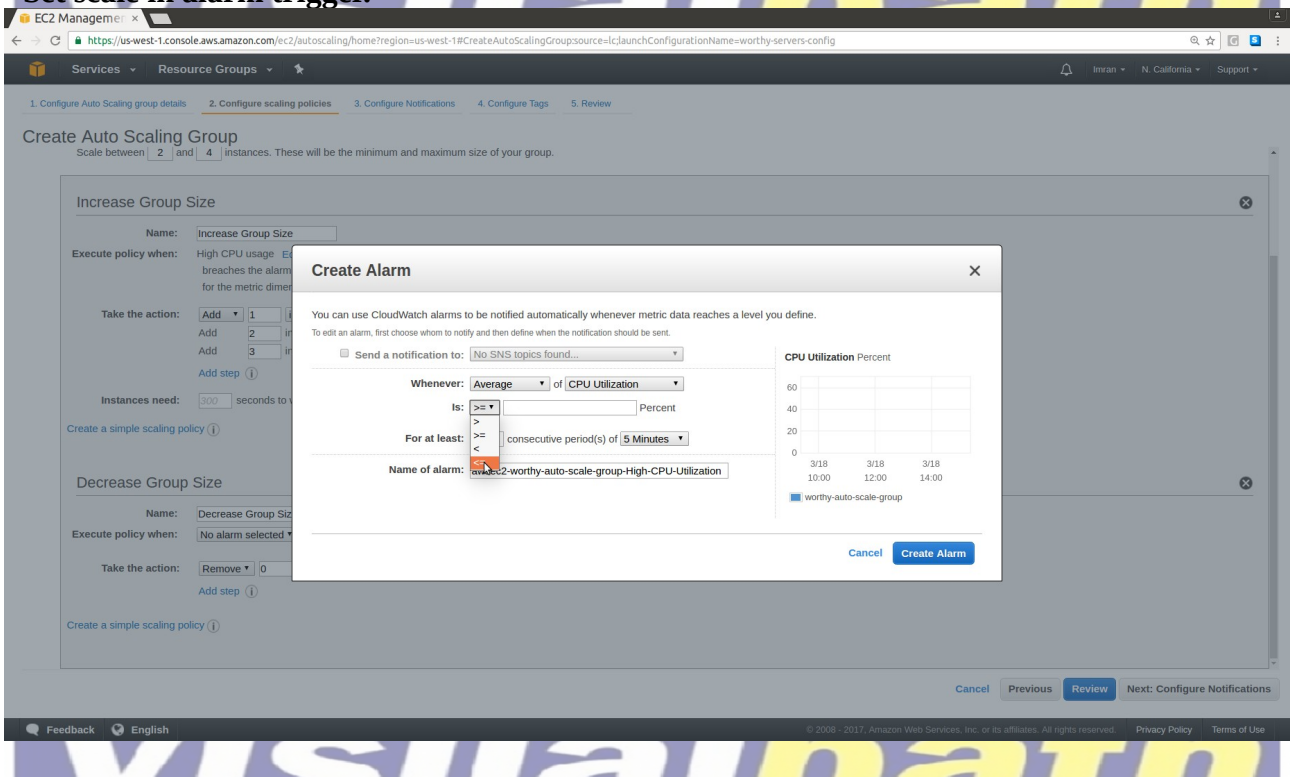
- Set the action after trigger.



Visualpath

- Set scale in alarm trigger.



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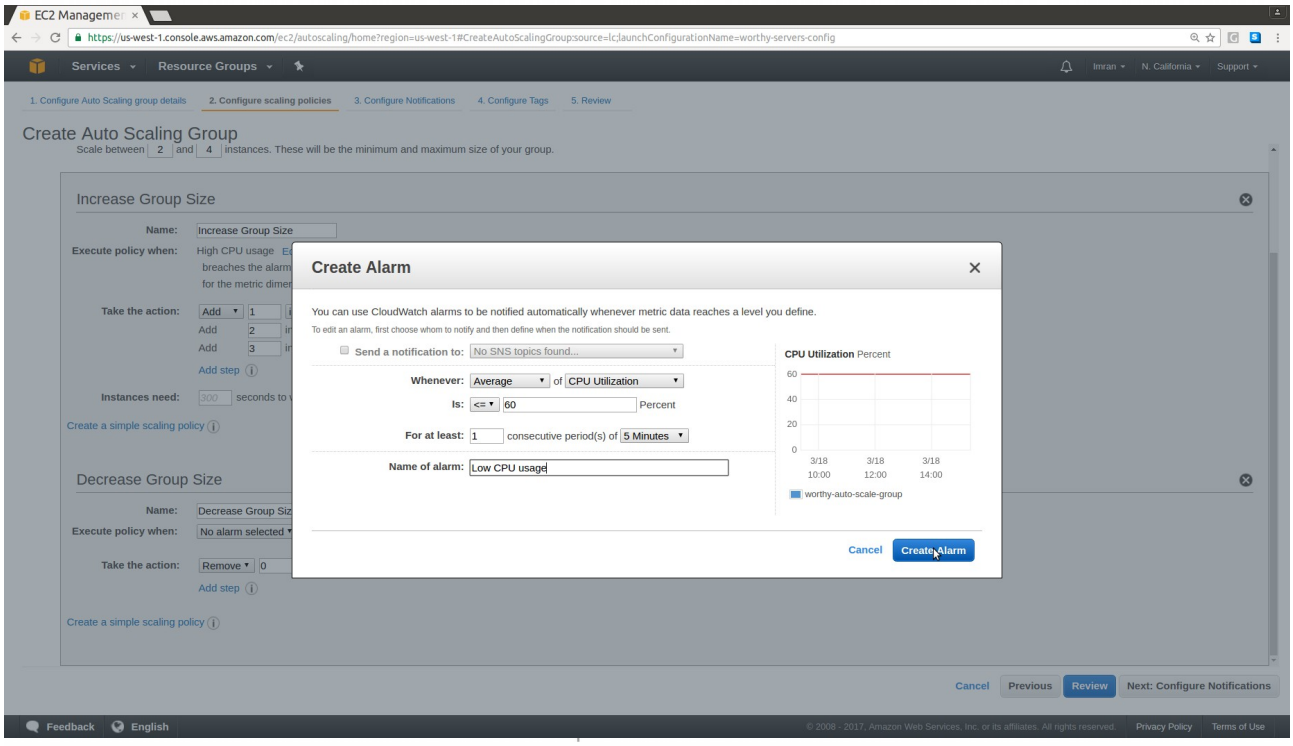

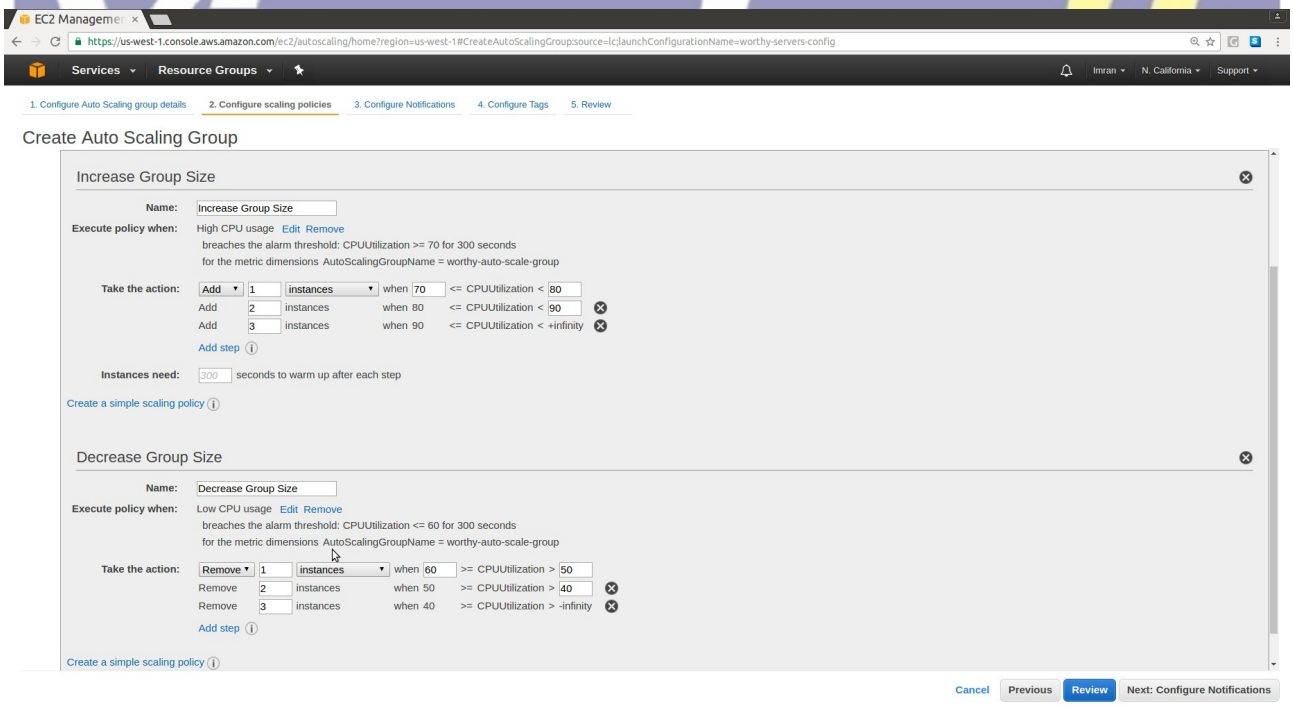

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https://us-west-1.console.aws.amazon.com/ec2/autoscaling/home?region=us-west-1#CreateAutoScalingGroup:source=lc;launchConfigurationName=worthy-servers-config

Services | Resource Groups | Imran | N. California | Support

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

Create Auto Scaling Group

Configure your Auto Scaling group to send notifications to a specified endpoint, such as an email address, whenever a specified event takes place, including: successful launch of an instance, failed instance launch, instance termination, and failed instance termination.

If you created a new topic, check your email for a confirmation message and click the included link to confirm your subscription. Notifications can only be sent to confirmed addresses.

Add notification

Cancel | Previous | Review | Next: Configure Tags

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https://us-west-1.console.aws.amazon.com/ec2/autoscaling/home?region=us-west-1#CreateAutoScalingGroup:source=lc;launchConfigurationName=worthy-servers-config

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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	worthy-auto-scale-group
Group size	2
Minimum Group Size	2
Maximum Group Size	4
Subnet(s)	subnet-6e19a436,subnet-8c264ae8
Load Balancers	worthy-web-elb
Target Groups	
Health Check Type	ELB
Health Check Grace Period	300
Detailed Monitoring	Yes
Instance Protection	None

Scaling Policies

Edit scaling policies

Increase Group Size	With alarm = High CPU usage; Add 1,2,3 instances and 300 seconds for instances to warm up
Decrease Group Size	With alarm = Low CPU usage; Remove 1,2,3 instances

Notifications

Edit notifications

Tags

Edit tags

Cancel | Previous | Create Auto Scaling group

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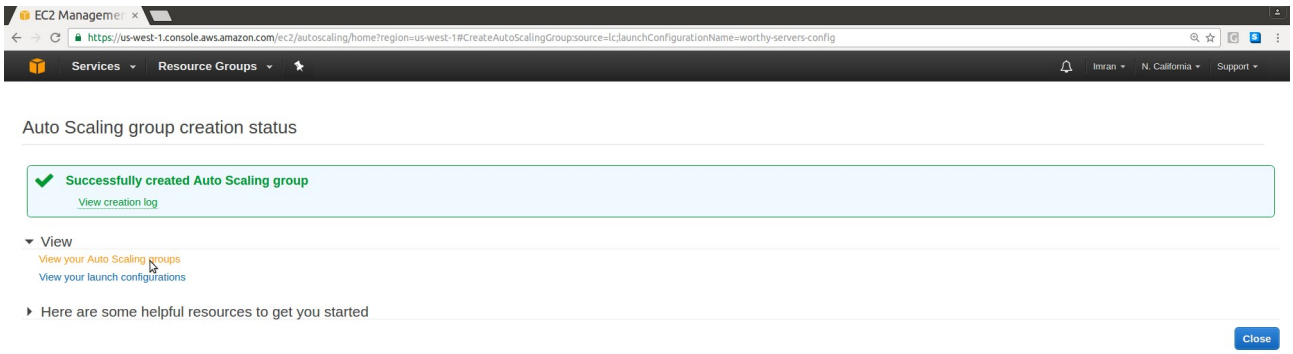

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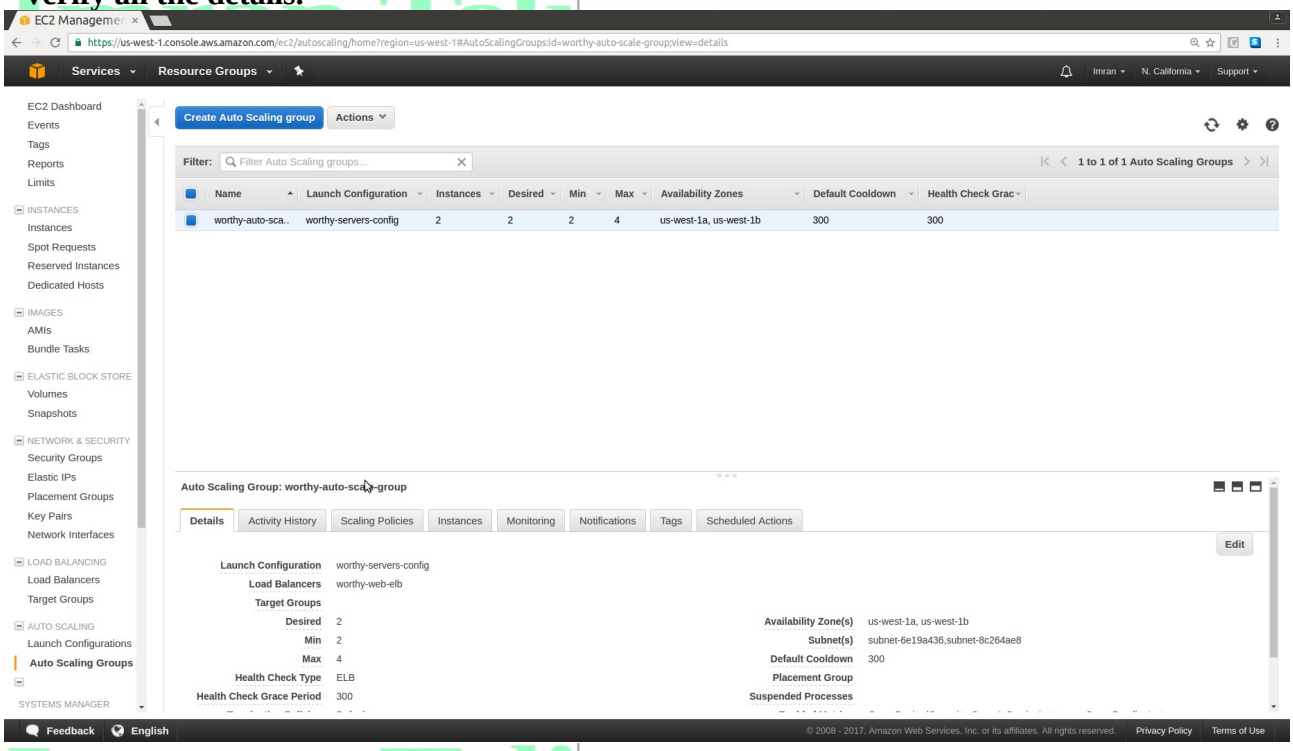
- Verify all the details.



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https://us-west-1.console.aws.amazon.com/ec2/autoscaling/home?region=us-west-1#AutoScalingGroups:id=worthy-auto-scale-group;view=instances

Services | Resource Groups | Imran | N. California | Support

EC2 Dashboard
Events
Tags
Reports
Limits
INSTANCES
Instances
Spot Requests
Reserved Instances
Dedicated Hosts
IMAGES
AMIs
Bundle Tasks
ELASTIC BLOCK STORE
Volumes
Snapshots
NETWORK & SECURITY
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces
LOAD BALANCING
Load Balancers
Target Groups
AUTO SCALING
Launch Configurations
Auto Scaling Groups
SYSTEMS MANAGER

Create Auto Scaling group | Actions

Filter: Filter Auto Scaling groups... | 1 to 1 of 1 Auto Scaling Groups

Name	Launch Configuration	Instances	Desired	Min	Max	Availability Zones	Default Cooldown	Health Check Grac
worthy-auto-sca..	worthy-servers-config	2	2	2	4	us-west-1a, us-west-1b	300	300

Auto Scaling Group: worthy-auto-scale-group

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

Actions

Filter: Any Health Status | Any Lifecycle State | Filter instances... | 1 to 2 of 2 Instances

Instance ID	Lifecycle	Launch Configuration Name	Availability Zone	Health Status	Protected from
i-0210f6fd751304a35	Pending	worthy-servers-config	us-west-1b	Healthy	
i-02f2be9900d518575	Pending	worthy-servers-config	us-west-1a	Healthy	

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https://us-west-1.console.aws.amazon.com/ec2/v2/home?region=us-west-1#Instances:sort=instanceId

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EC2 Dashboard
Events
Tags
Reports
Limits
INSTANCES
Instances
Spot Requests
Reserved Instances
Dedicated Hosts
IMAGES
AMIs
Bundle Tasks
ELASTIC BLOCK STORE
Volumes
Snapshots
NETWORK & SECURITY
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces
LOAD BALANCING
Load Balancers
Target Groups
AUTO SCALING
Launch Configurations
Auto Scaling Groups
SYSTEMS MANAGER SERVICES

Launch Instance | Connect | Actions

Filter by tags and attributes or search by keyword | 1 to 5 of 5

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP	IPv6 IPs
	i-0210f6fd751304a35	t2.micro	us-west-1b	running	Initializing	None	ec2-54-219-143-235.us-...	54.219.143.235	-
	i-02f2be9900d518575	t2.micro	us-west-1a	running	Initializing	None	ec2-54-183-33-152.us-w...	54.183.33.152	-
Nexus	i-03a21f53104edb8d4	t2.micro	us-west-1a	stopped		None		-	-
Jenkins	i-0558aae47896431b1	t2.micro	us-west-1a	stopped		None		-	-
worthy-web01	i-07cabdf20b3b86a9a	t2.micro	us-west-1a	running	2/2 checks p..	None	ec2-54-193-0-30.us-wes...	54.193.0.30	-

Instance: i-07cabdf20b3b86a9a (worthy-web01) Public DNS: ec2-54-193-0-30.us-west-1.compute.amazonaws.com

Description | Status Checks | Monitoring | Tags | Usage Instructions

Instance ID	i-07cabdf20b3b86a9a	Public DNS (IPv4)	ec2-54-193-0-30.us-west-1.compute.amazonaws.com
Instance state	running	IPv4 Public IP	54.193.0.30
Instance type	t2.micro	IPv6 IPs	-
Elastic IPs		Private DNS	ip-172-31-6-243.us-west-1.compute.internal
Availability zone	us-west-1a	Private IPs	172.31.6.243
Security groups	elbtestproj-web-SG, view inbound rules	Secondary private IPs	
Scheduled events	No scheduled events	VPC ID	vpc-9610c2f2
AMI ID	CentOS Linux 6 x86_64 HVM EBS 1602-74e73035-3435-48d6-88e0-89cc02ad83ee-ami-21e6d54b.3 (ami-ac5f2fcc)	Subnet ID	subnet-6e19a436
Platform	-	Network interfaces	eth0

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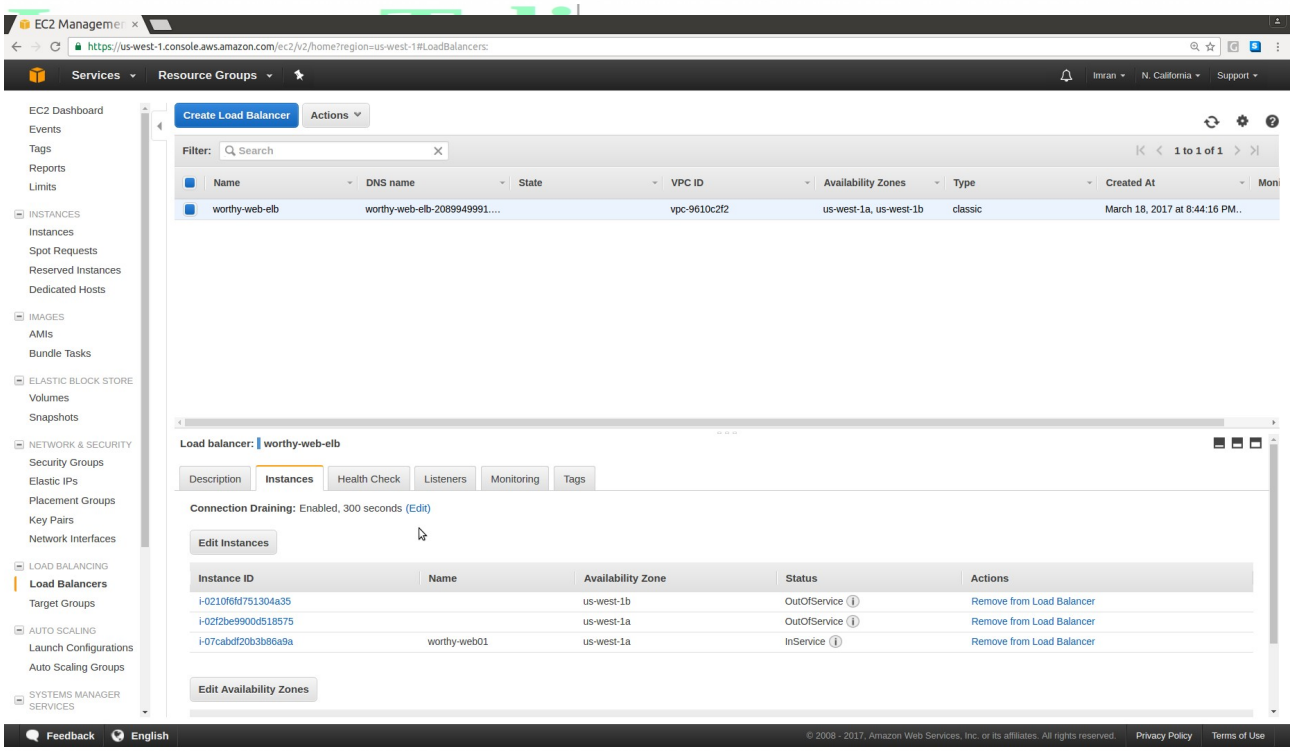

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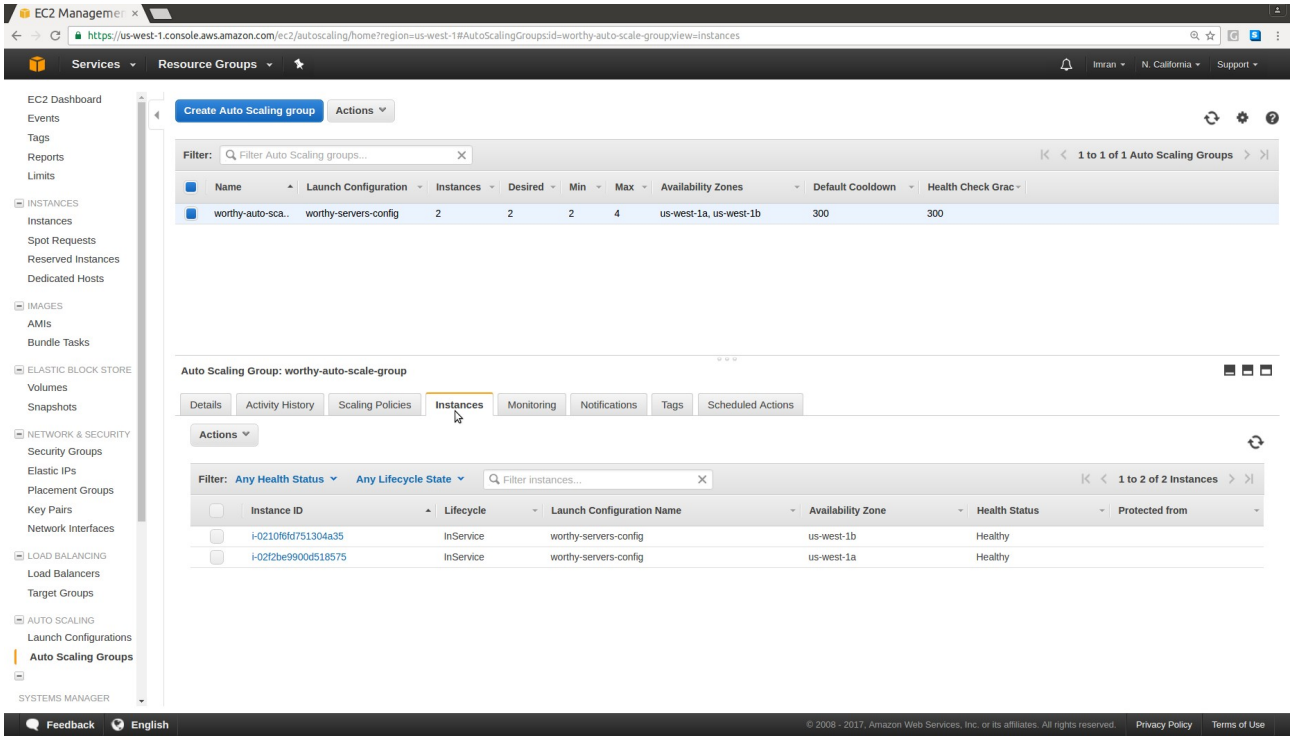

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EC2 Managemer

https://us-west-1.console.aws.amazon.com/ec2/autoscaling/home?region=us-west-1#AutoScalingGroups:id=worthy-auto-scale-group;view=monitoring

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Create Auto Scaling group | Actions

Filter: Filter Auto Scaling groups...

1 to 1 of 1 Auto Scaling Groups

Name	Launch Configuration	Instances	Desired	Min	Max	Availability Zones	Default Cooldown	Health Check Grac
worthy-auto-sca..	worthy-servers-config	2	2	2	4	us-west-1a, us-west-1b	300	300

Auto Scaling Group: worthy-auto-scale-group

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

Auto Scaling Metrics: Disable Group Metrics Collection

Showing data for: Last Hour

Display: Auto Scaling or EC2

Below are your CloudWatch metrics for the selected resources (a maximum of 10). Click on a graph to see an expanded view. All times shown are in UTC. › View all CloudWatch metrics

worthy-auto-scale-group

Minimum Group Size (Count)
Maximum Group Size (Count)
Desired Capacity (Count)
In Service Instances (Count)
Pending Instances (Count)
Standby Instances (Count)
Terminating Instances (Count)
Total Instances (Count)

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worthy-auto-sca..	worthy-servers-config	2	2	2	4	us-west-1a, us-west-1b	300	300

Auto Scaling Group: worthy-auto-scale-group

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

Add policy

Decrease Group Size

Actions

Execute policy when: Low CPU usage
breaches the alarm threshold: CPUUtilization <= 60 for 300 seconds
for the metric dimensions AutoScalingGroupName = worthy-auto-scale-group

Take the action: Remove 1 instances when 60 >= CPUUtilization > 50
Remove 2 instances when 50 >= CPUUtilization > 40
Remove 3 instances when 40 >= CPUUtilization > -infinity

Increase Group Size

Actions

Execute policy when: High CPU usage
breaches the alarm threshold: CPUUtilization >= 70 for 300 seconds
for the metric dimensions AutoScalingGroupName = worthy-auto-scale-group

Take the action: Add 1 instances when 70 <= CPUUtilization < 80
Add 2 instances when 80 <= CPUUtilization < 90
Add 3 instances when 90 <= CPUUtilization < +infinity

Instances need: 300 seconds to warm up after each step

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https://us-west-1.console.aws.amazon.com/ec2/autoscaling/home?region=us-west-1#AutoScalingGroups:id=worthy-auto-scale-group;view=history

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Filter: Filter Auto Scaling groups... | 1 to 1 of 1 Auto Scaling Groups

Name	Launch Configuration	Instances	Desired	Min	Max	Availability Zones	Default Cooldown	Health Check Grac
worthy-auto-sca..	worthy-servers-config	2	2	2	4	us-west-1a, us-west-1b	300	300

Auto Scaling Group: worthy-auto-scale-group

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

Filter: Any Status | Filter scaling history... | 1 to 2 of 2 History Items

Status	Description	Start Time	End Time
Successful	Launching a new EC2 instance: i-0210f6fd751304a35	2017 March 18 20:54:53 UTC+5:30	2017 March 18 20:55:26 UTC+5:30
Successful	Launching a new EC2 instance: i-02f2be9900d518575	2017 March 18 20:54:53 UTC+5:30	2017 March 18 20:55:26 UTC+5:30

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https://us-west-1.console.aws.amazon.com/ec2/v2/home?region=us-west-1#LoadBalancers:

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Create Load Balancer | Actions

Filter: Search | 1 to 1 of 1

Name	DNS name	State	VPC ID	Availability Zones	Type	Created At	Mon
worthy-web-elb	worthy-web-elb-2089949991....		vpc-9610c2f2	us-west-1a, us-west-1b	classic	March 18, 2017 at 8:44:16 PM..	

Load balancer: worthy-web-elb

Description | Instances | Health Check | Listeners | Monitoring | Tags

Connection Draining: Enabled, 300 seconds (Edit)

Edit Instances

Instance ID	Name	Availability Zone	Status	Actions
i-0210f6fd751304a35		us-west-1b	InService	Remove from Load Balancer
i-02f2be9900d518575		us-west-1a	InService	Remove from Load Balancer
i-07cabdf20b3b86a9a	worthy-web01	us-west-1a	InService	Remove from Load Balancer

Edit Availability Zones

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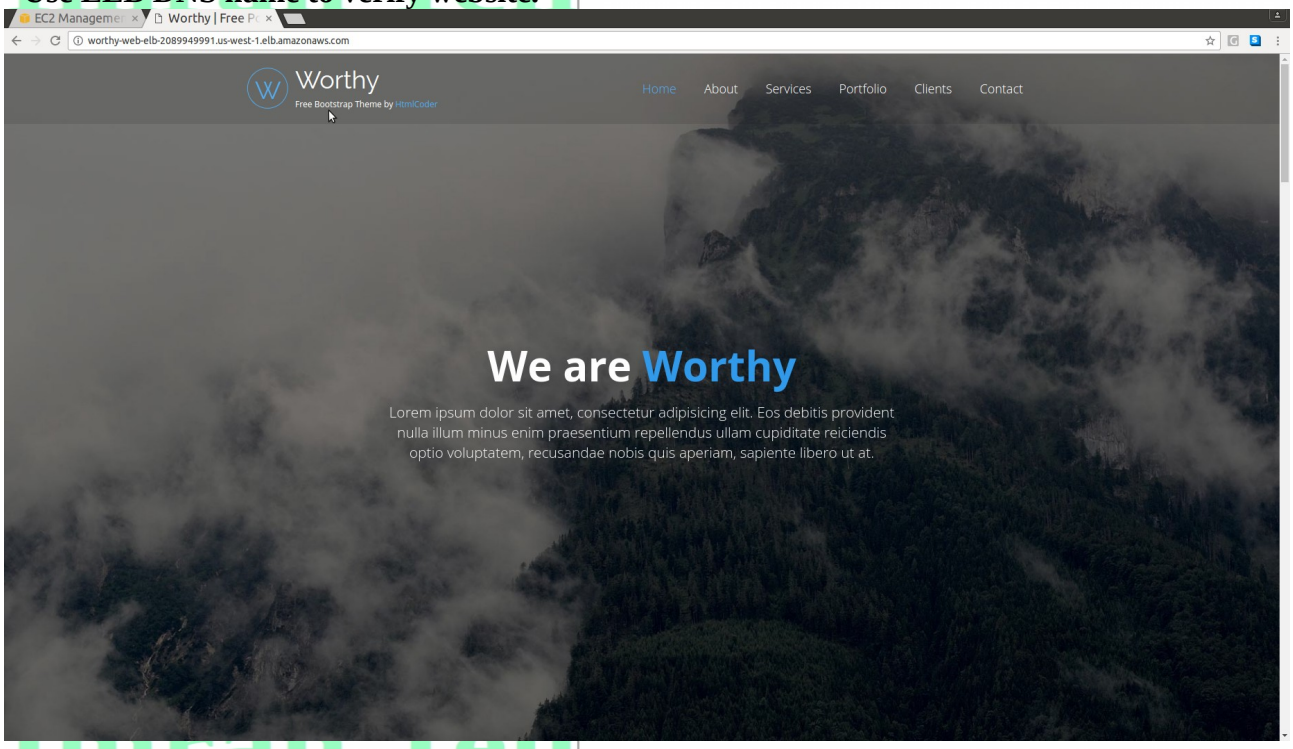
- Use ELB DNS name to verify website.



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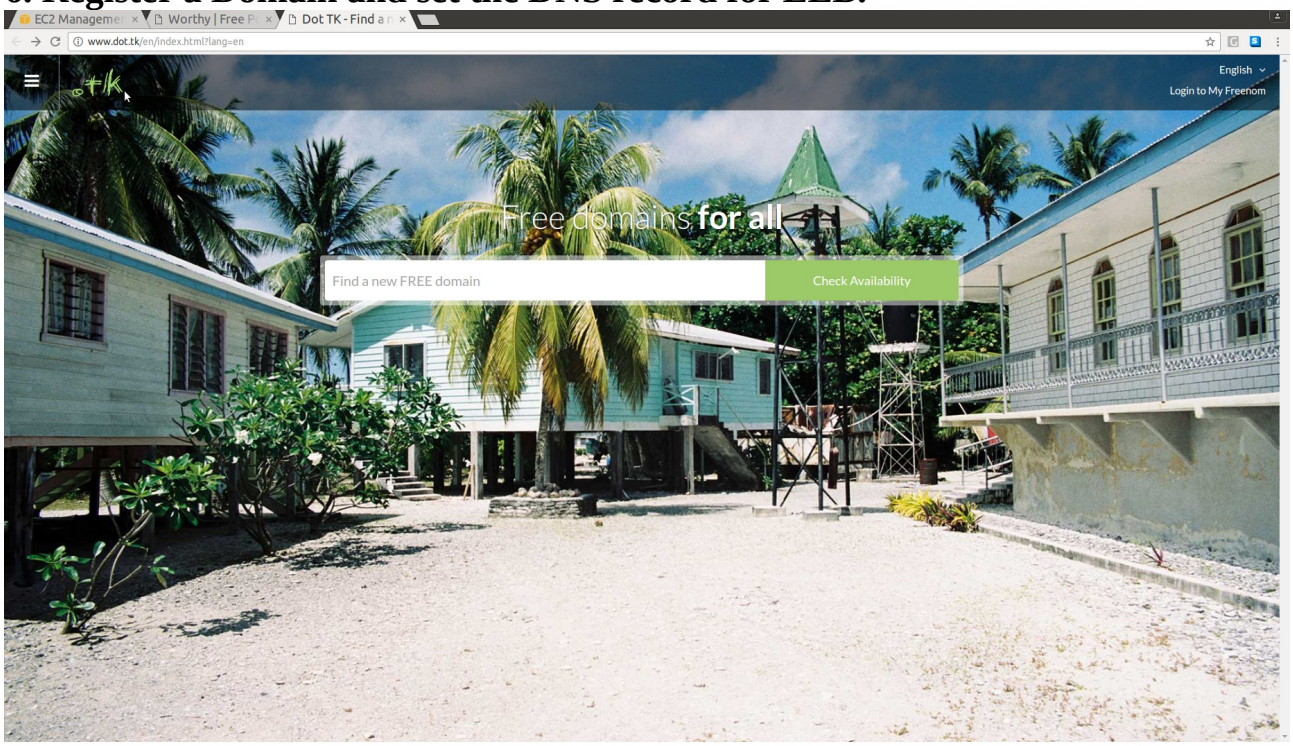
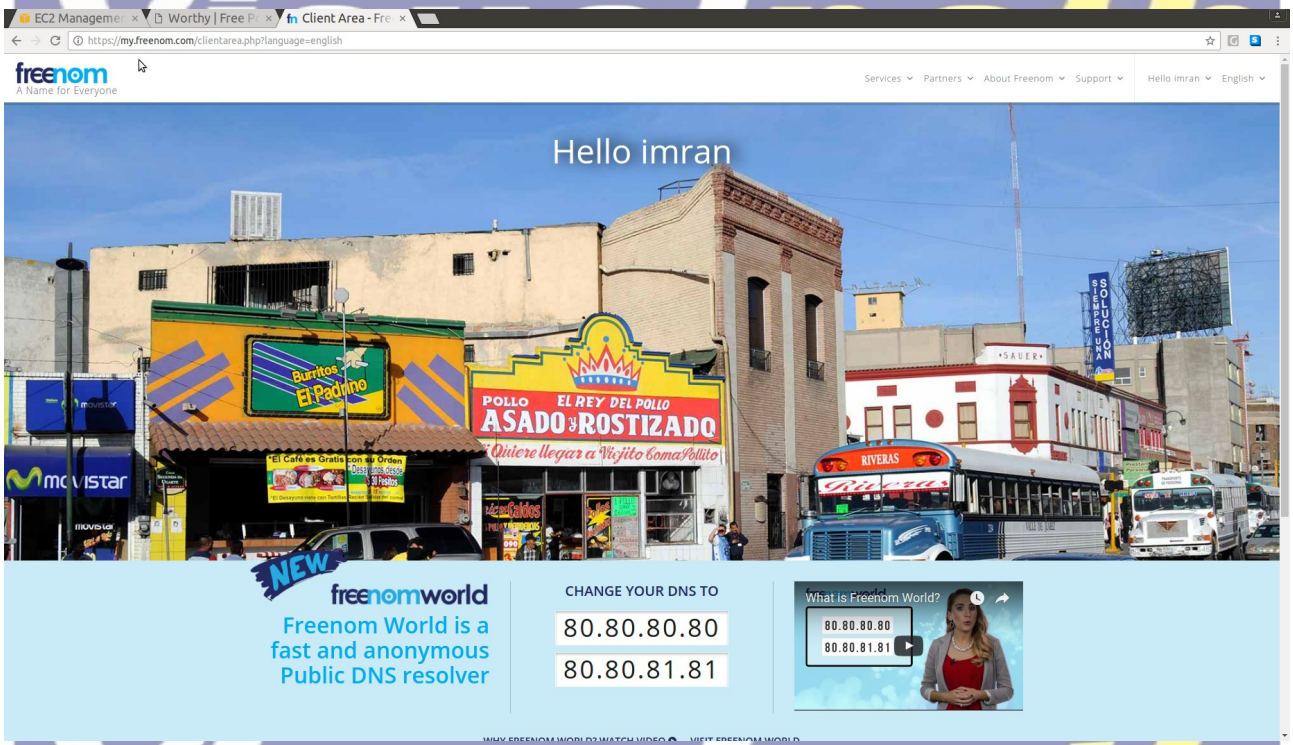
6. Register a Domain and set the DNS record for ELB.





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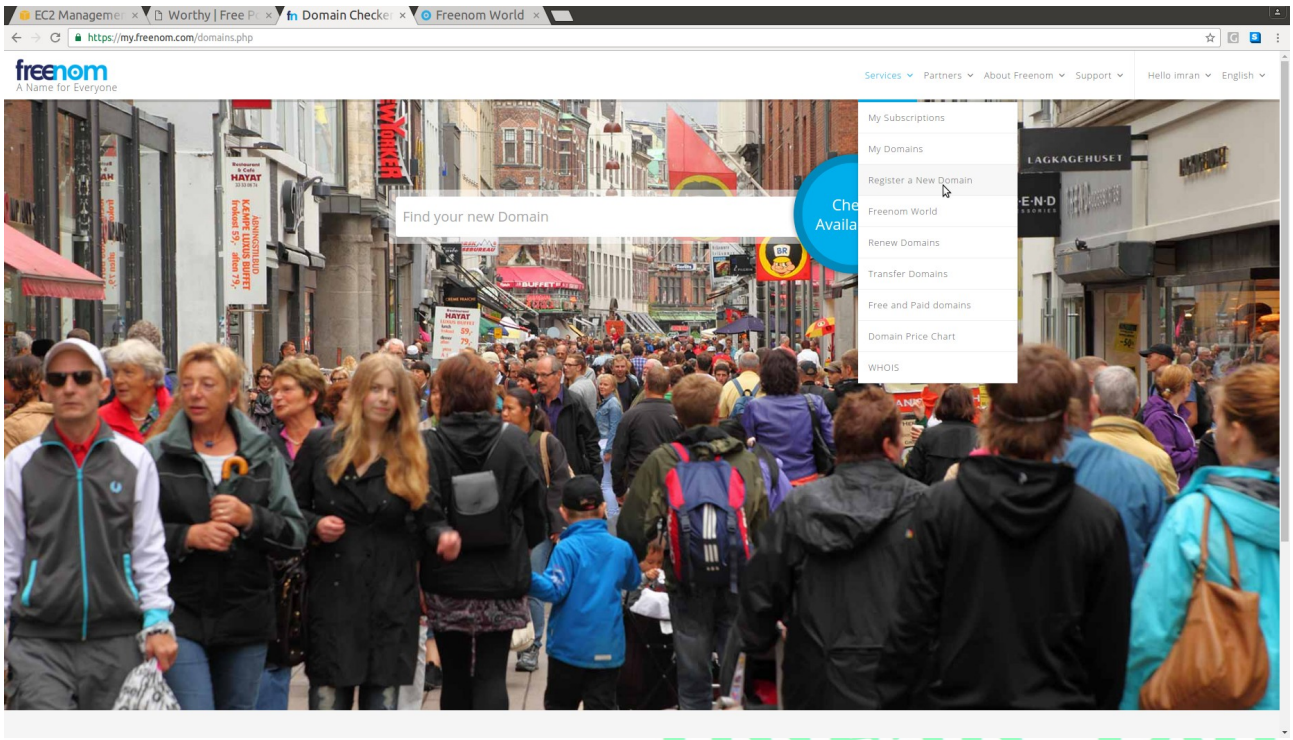

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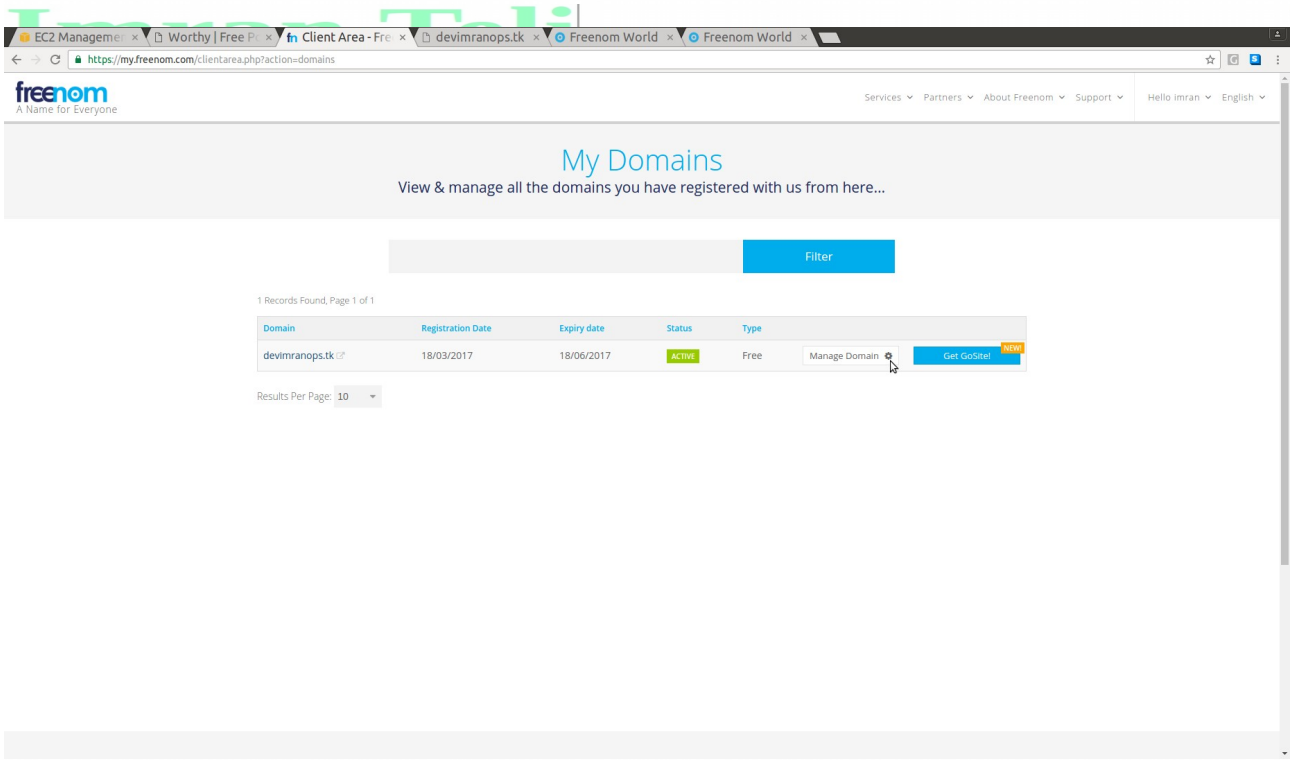

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https://my.freenom.com/clientarea.php?action=domaindetails&id=1025972232#tab3

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Nameservers

You can change where your domain points to here. Please be aware changes can take up to 24 hours to propogate.

- Use default nameservers
- Use custom nameservers (enter below)

Nameserver 1: NS01.FREENOM.COM

Nameserver 2: NS02.FREENOM.COM

Nameserver 3: NS03.FREENOM.COM

Nameserver 4: NS04.FREENOM.COM

Nameserver 5:

Change Nameservers

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https://my.freenom.com/clientarea.php?managedns=devimranops.tk&domainid=1025972232

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DNS MANAGEMENT for devimranops.tk

Back to domain details

Error occured: Invalid value in dnsrecord

No records to display.

Add Record

Name	Type	TTL	Target	
worthydevops	CNAME	14440	worthy-web-elb-2089949991.	Delete

More Records | Save Changes

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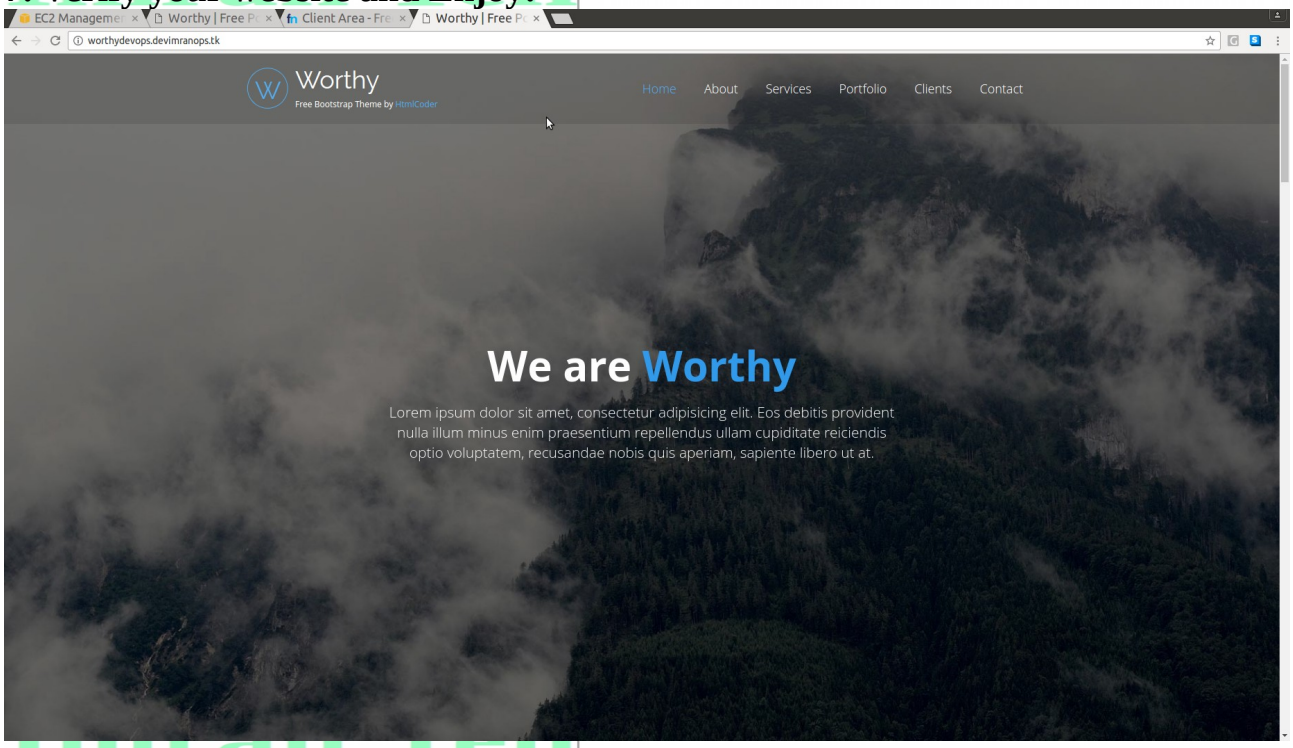
7. Verify your website and Enjoy!



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