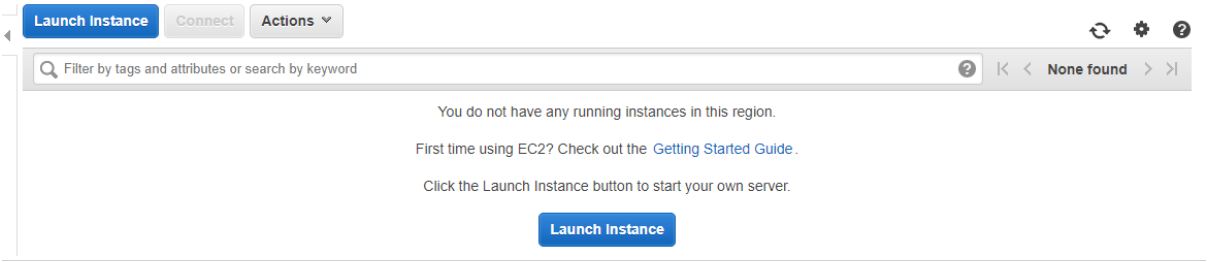
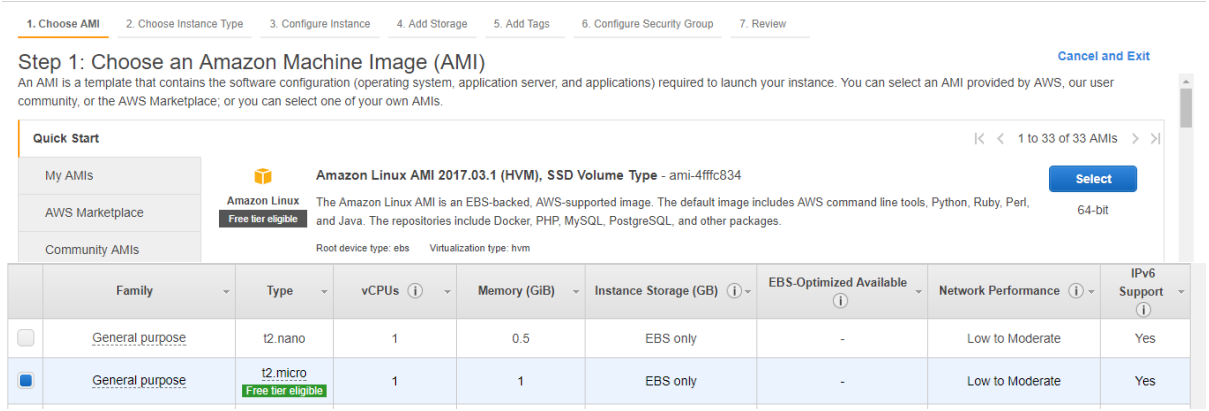
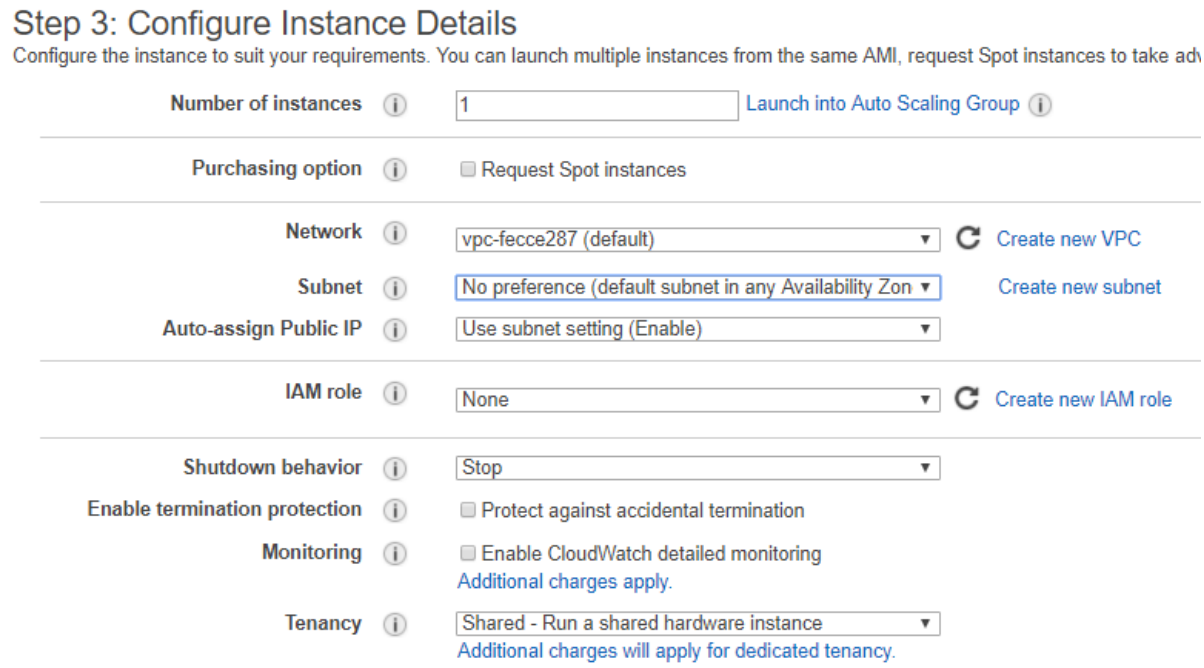
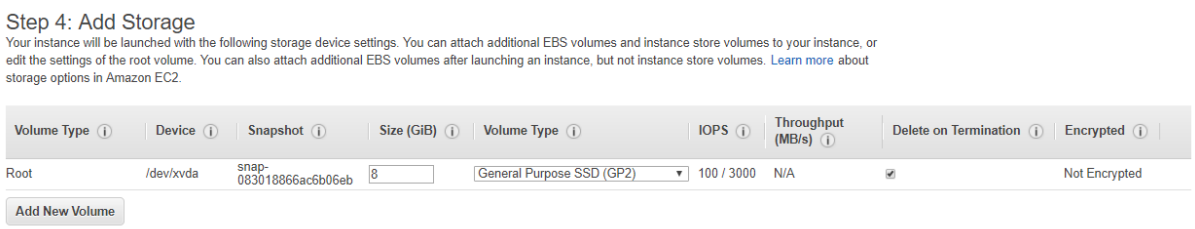




	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
☐	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
☑	General purpose	t2.micro (Free tier eligible)	1	1	EBS only	-	Low to Moderate	Yes





1. Choose AMI | 2. Choose Instance Type | 3. Configure Instance | 4. Add Storage | 5. Add Tags | 6. Configure Security Group | 7. Review

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.
A copy of a tag can be applied to volumes, instances or both.
Tags will be applied to all instances and volumes. Learn more about tagging your Amazon EC2 resources.

Key (127 characters maximum)	Value (255 characters maximum)	Instances	Volumes
Name	EC2-SERVER	☑	☑

Add another tag (Up to 50 tags maximum)

Step 6: Configure Security Group

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 ID	Name	Description	Actions
☐	sg-6acca01a	default	default VPC security group	Copy to new
☑	sg-9edfb3ee	WEB-SERVER-SG	WEB-SERVER-SG	Copy to new

Warning
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Inbound rules for sg-9edfb3ee (Selected security groups: sg-9edfb3ee)

Type	Protocol	Port Range	Source
HTTP	TCP	80	0.0.0.0/0
HTTP	TCP	80	::/0
SSH	TCP	22	115.249.130.47/32

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about removing existing key pairs from a public AMI.

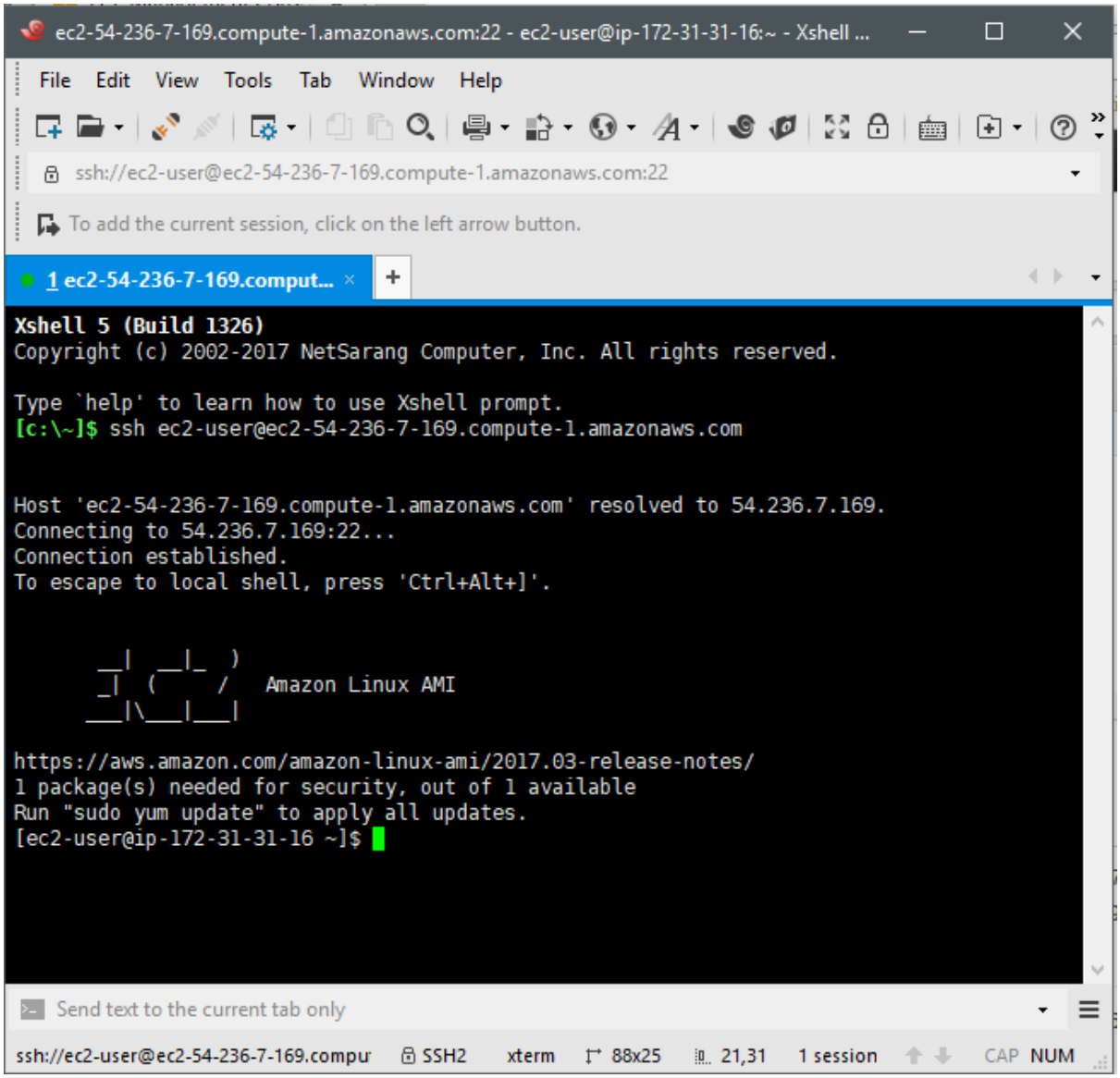
Choose an existing key pair

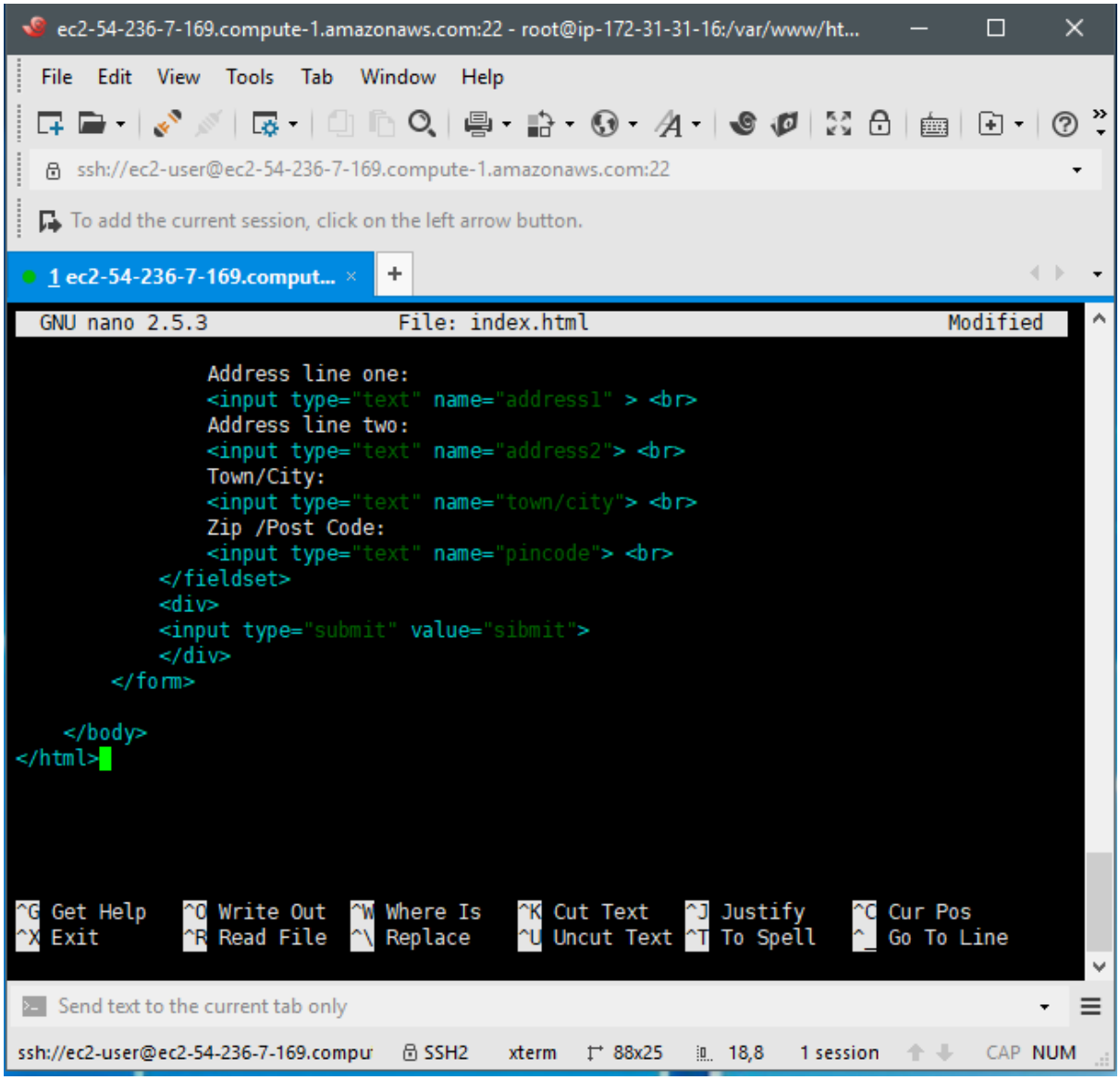
Select a key pair

srinu

☑ I acknowledge that I have access to the selected private key file (srinu.pem), and that without this file, I won't be able to log into my instance.

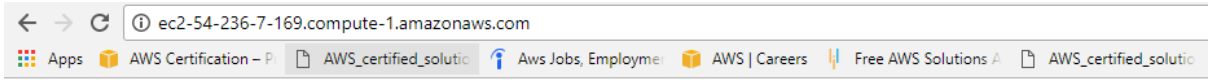
Cancel | **Launch Instances**


ec2-54-236-7-169.compute-1.amazonaws.com:22 - ec2-user@ip-172-31-31-16:~ - Xshell ...
File Edit View Tools Tab Window Help
ssh://ec2-user@ec2-54-236-7-169.compute-1.amazonaws.com:22
To add the current session, click on the left arrow button.
1 ec2-54-236-7-169.comput...
Xshell 5 (Build 1326)
Copyright (c) 2002-2017 NetSarang Computer, Inc. All rights reserved.
Type `help' to learn how to use Xshell prompt.
[c:\~]$ ssh ec2-user@ec2-54-236-7-169.compute-1.amazonaws.com
Host 'ec2-54-236-7-169.compute-1.amazonaws.com' resolved to 54.236.7.169.
Connecting to 54.236.7.169:22...
Connection established.
To escape to local shell, press 'Ctrl+Alt+]'.
Amazon Linux AMI
https://aws.amazon.com/amazon-linux-ami/2017.03-release-notes/
1 package(s) needed for security, out of 1 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-31-16 ~]$
Send text to the current tab only
ssh://ec2-user@ec2-54-236-7-169.compu
SSH2
xterm
88x25
21,31
1 session
CAP NUM


ec2-54-236-7-169.compute-1.amazonaws.com:22 - root@ip-172-31-31-16:/var/www/ht...
File Edit View Tools Tab Window Help
ssh://ec2-user@ec2-54-236-7-169.compute-1.amazonaws.com:22
To add the current session, click on the left arrow button.
1 ec2-54-236-7-169.comput...
GNU nano 2.5.3 File: index.html Modified
Address line one:
<input type="text" name="address1" >
Address line two:
<input type="text" name="address2">
Town/City:
<input type="text" name="town/city">
Zip /Post Code:
<input type="text" name="pincode">
</fieldset>

<input type="submit" value="sibmit">

</form>
</body>
</html>
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
^X Exit ^R Read File ^\ Replace ^U Uncut Text ^T To Spell ^_ Go To Line
Send text to the current tab only
ssh://ec2-user@ec2-54-236-7-169.compu SSH2 xterm 88x25 18,8 1 session CAP NUM



Student Signup Form

Personal Information

First Name:

Last name:

Gender:

female

Daate Of Birth:

dd-mm-yyyy

Mother's Education Qualification:

Father's Education Qualification:

Email-address:

Password:

Confirm password:

Phone number:

Address Details

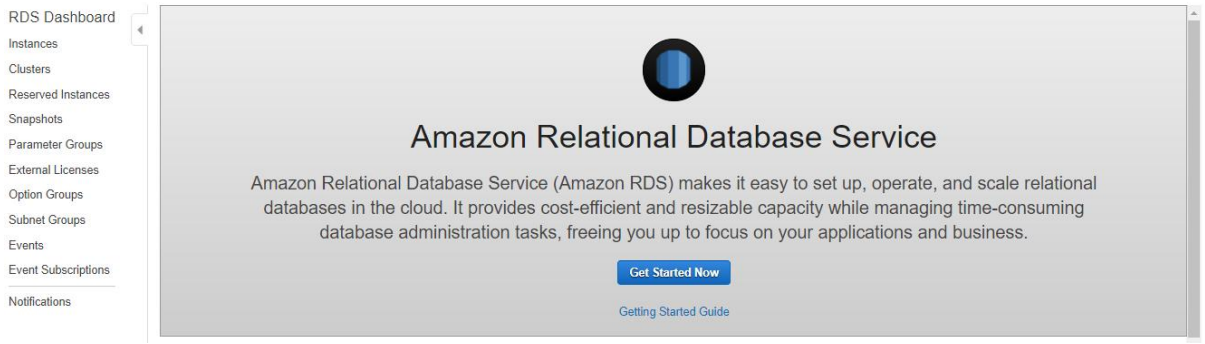
Address line one:

Address line two:

Town/City:

Zip /Post Code:

sibmit



Select Engine

To get started, choose a DB Engine below and click Select.

Amazon Aurora

MySQL

MariaDB

PostgreSQL

ORACLE

Microsoft SQL Server

MySQL

MySQL Community Edition

Select

MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.

- Supports database size up to 6 TB.
- Instances offer up to 32 vCPUs and 244 GiB Memory.
- Supports automated backup and point-in-time recovery.
- Supports cross-region read replicas.
- Free tier eligible

Amazon Aurora

MySQL-compatible edition

Select

Enterprise-class database, starting at <$1/day.

- Up to 5 times the throughput of MySQL.
- Up to 64TB of auto-scaling SSD storage.
- 6-way replication across three Availability Zones.
- Up to 15 Read Replicas with sub-10ms replica lag.
- Automatic monitoring and failover in less than 30 seconds.

Do you plan to use this database for production purposes?

Production

MySQL

Use Multi-AZ Deployment and Provisioned IOPS Storage as defaults for high availability and fast, consistent performance.

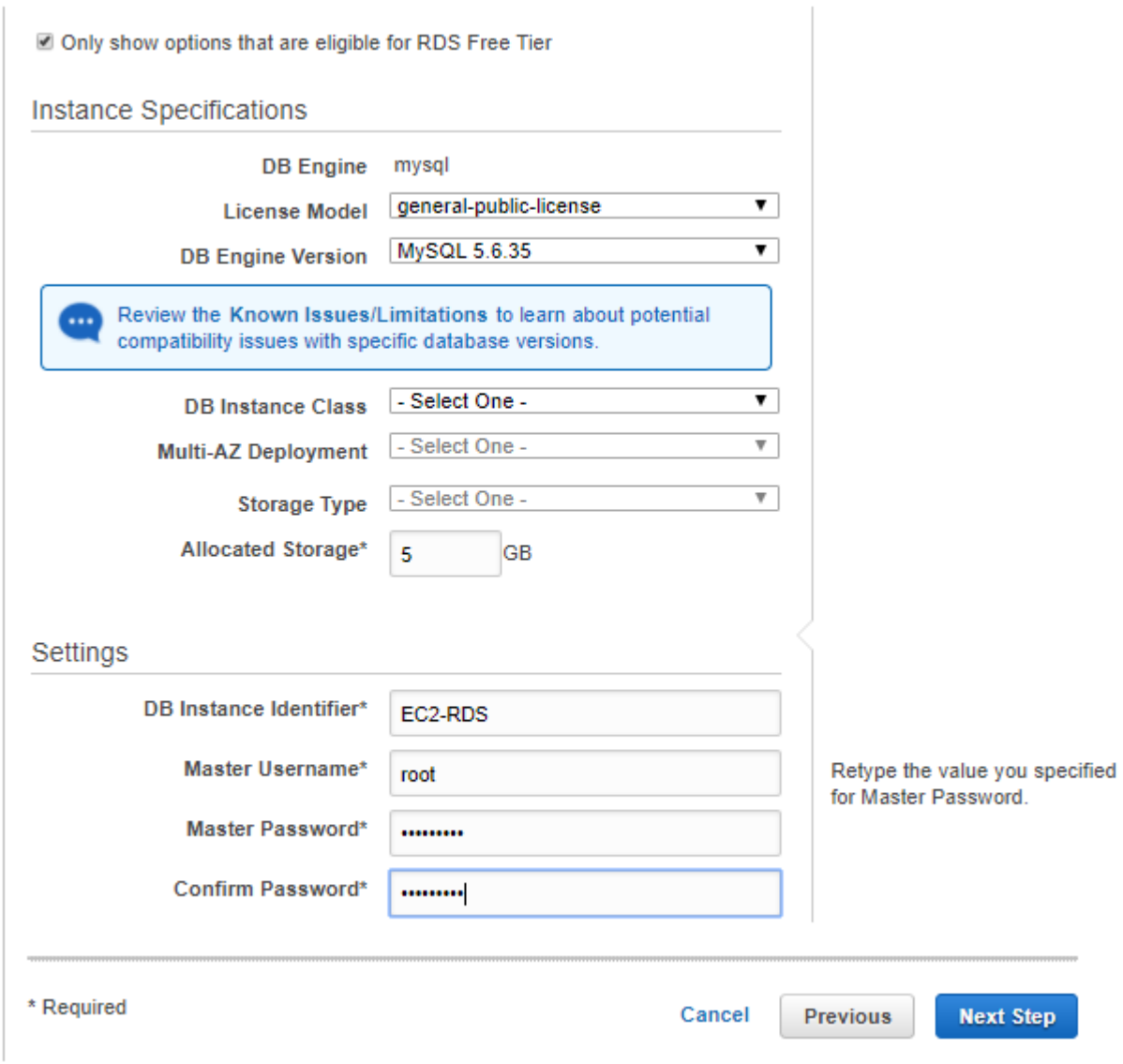
Dev/Test

MySQL

This instance is intended for use outside of production or under the RDS Free Usage Tier.

Billing is based on RDS pricing.

Cancel Previous Next Step


Only show options that are eligible for RDS Free Tier
Instance Specifications
DB Engine
mysql
License Model
general-public-license
DB Engine Version
MySQL 5.6.35
Review the Known Issues/Limitations to learn about potential compatibility issues with specific database versions.
DB Instance Class
- Select One -
Multi-AZ Deployment
- Select One -
Storage Type
- Select One -
Allocated Storage*
5
GB
Settings
DB Instance Identifier*
EC2-RDS
Master Username*
root
Master Password*
Confirm Password*
Retype the value you specified for Master Password.
* Required
Cancel
Previous
Next Step

Configure Advanced Settings

Network & Security

VPC*	Default VPC (vpc-fecce287)
Subnet Group	default
Publicly Accessible	No
Availability Zone	No Preference
VPC Security Group(s)	Create new Security Group WEB-SERVER-SG (VPC) default (VPC)

Database Options

Database Name	Testing-ec2-RDS

Note: if no database name is specified then no initial MySQL database will be created on the DB Instance.

Database Port	3306
DB Parameter Group	default.mysql5.6
Option Group	default:mysql-5-6
Copy Tags To Snapshots	
Enable IAM DB Authentication	No Preference
Enable Encryption	No

Select the DB option group that enables any optional functionality you want the DB instance to support, such as Oracle or SQL Server data encryption, or MySQL 5.6 memcached support. Learn More.

Backup

Note: if no database name is specified then no initial MySQL database will be created on the DB Instance.

Database Port	3306
DB Parameter Group	default.mysql5.6
Option Group	default:mysql-5-6
Copy Tags To Snapshots	☐
Enable IAM DB Authentication	No Preference
Enable Encryption	No

Backup

Please note that automated backups are currently supported for InnoDB storage engine only. If you are using MyISAM, refer to detail here.

Backup Retention Period	7 days
Backup Window	Select Window
Start Time	00 : 00 UTC
Duration	0.5 hours

Monitoring

Enable Enhanced Monitoring	No

Maintenance

Auto Minor Version Upgrade	Yes
Maintenance Window	No Preference

Select the period in which you want pending modifications (such as changing the DB instance class) or patches applied to the DB instance by Amazon RDS. Any such maintenance should be started and completed within the selected period. If you do not select a period, Amazon RDS will assign a period randomly. Learn More.

* Required

Cancel | Previous | Launch DB Instance

Launch DB Instance | Show Monitoring | Instance Actions

Filter: All Instances | Search DB Instances... | Viewing 1 of 1 DB Instances

Engine	DB Instance	Status	CPU	Current Activity	Maintenance	Class	VPC	Multi-AZ	Rep
MySQL	ec2-rds	available	1.00%	0 Connections	None	db.t2.micro	vpc-fa725983	No	

Endpoint: ec2-rds.ca89b8psnsxg.us-east-1.rds.amazonaws.com:3306 (authorized)

Configuration Details

ARN	arn:aws:rds:us-east-1:514602770466:db:ec2-rds
Engine	MySQL 5.6.35
License Model	General Public License
Created Time	August 28, 2017 at 10:01:23 PM UTC+5:30
DB Name	Testingec2RDS
Username	root
Option Group	default:mysql-5-6 (in-sync)
Parameter Group	default.mysql5.6 (in-sync)
Copy Tags To Snapshots	No
Resource ID	db-EYCHDCVUCSOKFO4ZEANOMT4O3Y
IAM DB Authentication Enabled	No

Security and Network

Availability Zone	us-east-1e
VPC	vpc-fa725983
Subnet Group	default-vpc-fa725983 (Complete)
Subnets	subnet-d9eda3d5 subnet-c855bdf7 subnet-b724efd3 subnet-bc1c0bf4 subnet-e4206abe subnet-10ce9f3c
Security Groups	rds-launch-wizard-3 (sg-158cfc65) (active)
Publicly Accessible	No
Endpoint	ec2-rds.ca89b8psnsxg.us-east-1.rds.amazonaws.com
Port	3306
Certificate Authority	rds-ca-2015 (Mar 5, 2020)

Instance and IOPS

Instance Class	db.t2.micro
Storage Type	General Purpose (SSD)
IOPS	disabled
Storage	5 GB

Monitoring Details

Enhanced Monitoring Enabled	No

Encryption Details

Encryption Enabled	No

Availability and Durability

DB Instance Status	available
Multi AZ	No

Maintenance Details

Auto Minor Version Upgrade	Yes
Maintenance Window	mon:02:00-mon:02:30

Create Image

Instance ID	i-0c5b2f9733b1cab67
Image name	EC2-INSTANCE-IMAGE
Image description	EC2-INSTANCE-IMAGE
No reboot	☑

Instance Volumes

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encrypted
Root	/dev/xvda	snap-083018866ac6b06eb	8	General Purpose SSD (GP2)	100 / 3000	N/A	☑	Not Encrypted

Add New Volume

Total size of EBS Volumes: 8 GiB
When you create an EBS image, an EBS snapshot will also be created for each of the above volumes.

Cancel **Create Image**

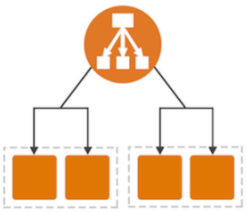
Welcome to Elastic Load Balancing

Select load balancer type

Elastic Load Balancing supports two types of load balancers: Application Load Balancers (new) and Classic Load Balancers. Choose the load balancer type that meets your needs. Learn more.

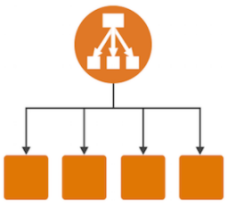
Application Load Balancer

Preferred for HTTP/HTTPS



An Application Load Balancer makes routing decisions at the application layer (HTTP/HTTPS), supports path-based routing, and can route requests to one or more ports on each EC2 instance or container instance in your VPC.

Classic Load Balancer



A Classic Load Balancer makes routing decisions at either the transport layer (TCP/SSL) or the application layer (HTTP/HTTPS), and supports either EC2-Classic or a VPC.

Cancel **Continue**

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:	WEB-LOAD
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

Step 6: Add Tags

Apply tags to your resources to help organize and identify them.

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. Learn more about tagging your Amazon EC2 resources.

Key	Value
NAME	WEB-LOAD

Create Tag

Create Load Balancer Actions

Filter: Search 1 to 1 of 1

Name	DNS name	State	VPC ID	Availability Zones	Type	Created A
WEB-LOAD	WEB-LOAD-872278376.us-...		vpc-fecce287	us-east-1a, us-east-1b,...	classic	August 28

Create Launch Configuration

Cancel and Exit

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Quick Start
My AMIs
AWS Marketplace
Community AMIs

Search my AMIs

1 to 1 of 1 AMIs

EC2-INSTANCE-IMAGE - ami-241e125f
EC2-INSTANCE-IMAGE
Root device type: ebs Virtualization type: hvm Owner: 514602770466

Select
64-bit

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
☐	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate
☑	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate

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

Create Launch Configuration

Name WEB-AS

Purchasing option ☐ Request Spot Instances

IAM role None

Monitoring ☐ Enable CloudWatch detailed monitoring
Learn more

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

EC2-INSTANCE-IMAGE - ami-241e125f
EC2-INSTANCE-IMAGE
Root device type: ebs Virtualization Type: hvm

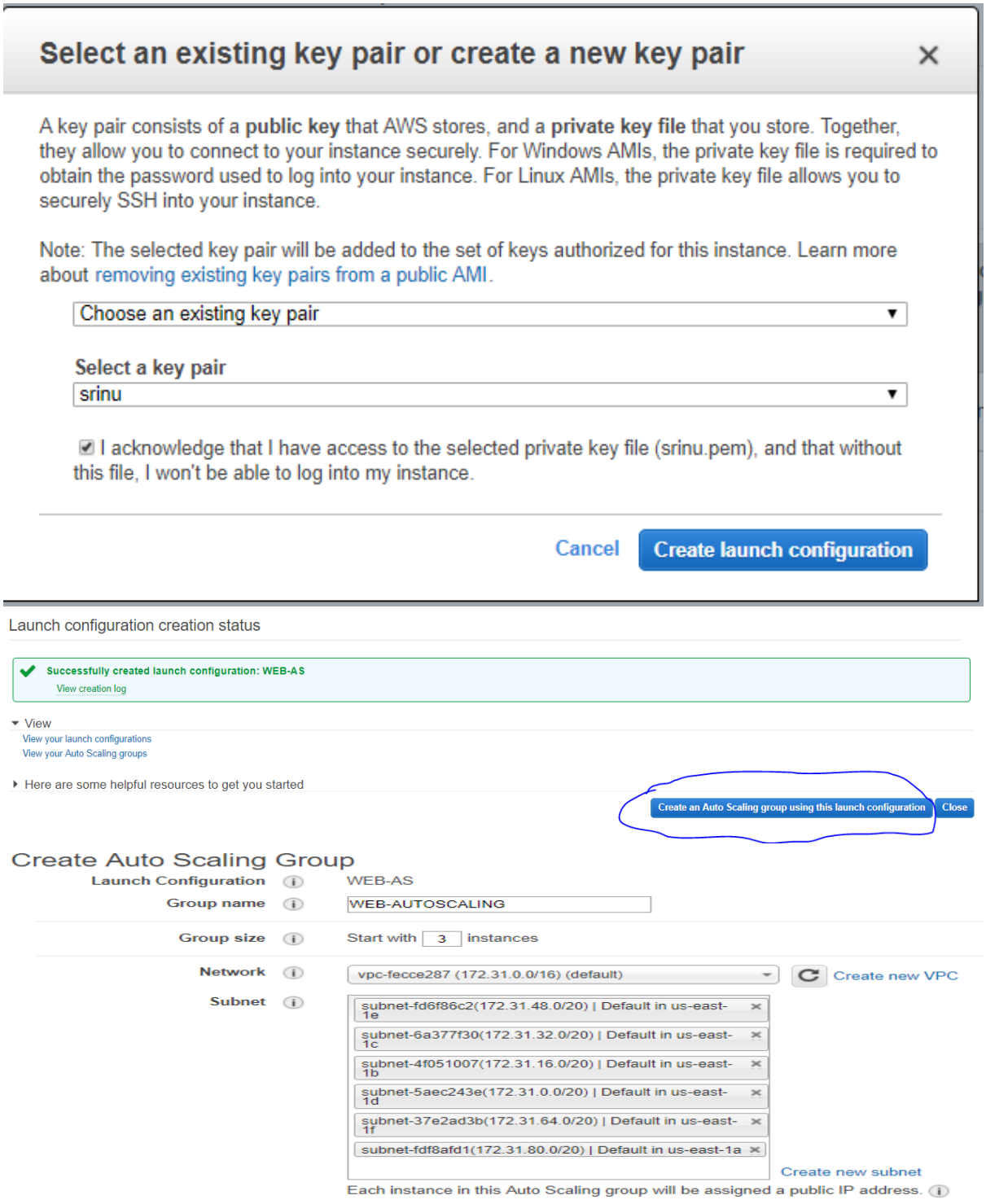
▾ Instance Type — Edit instance type

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

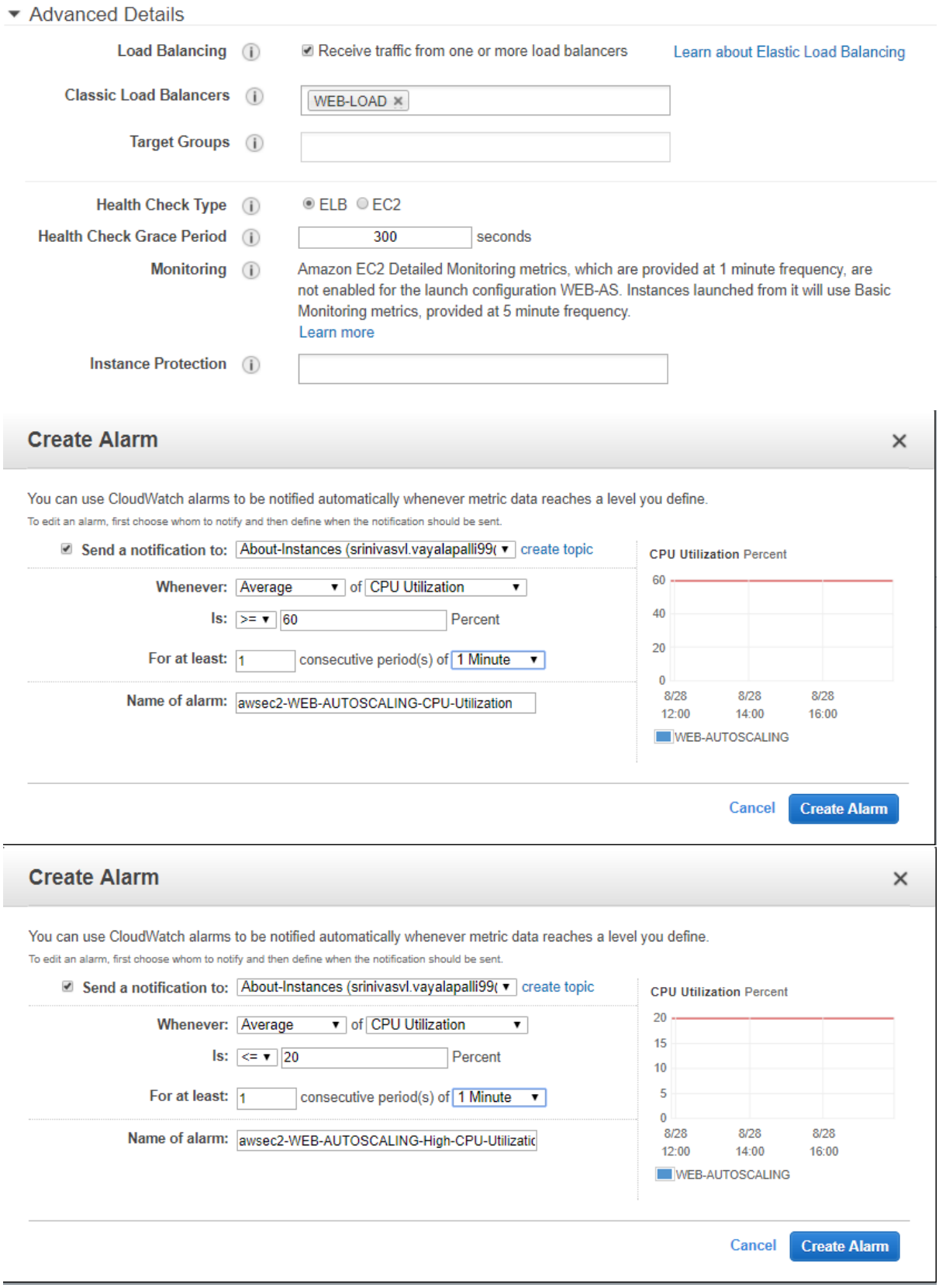
▾ Launch configuration details — Edit details

Name WEB-AS
Purchasing option On demand
EBS Optimized No
Monitoring No
IAM role None

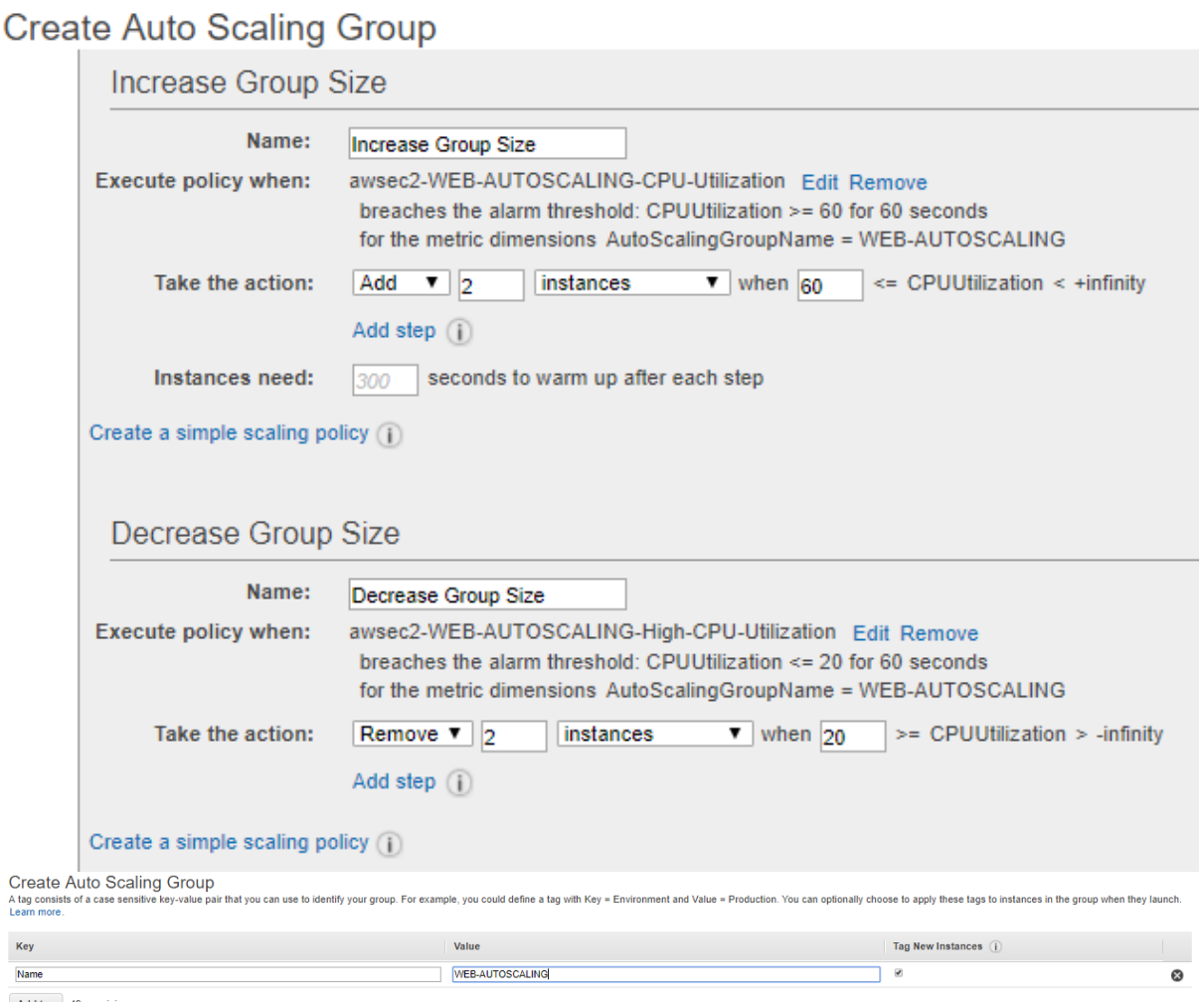
Cancel Previous Create launch configuration



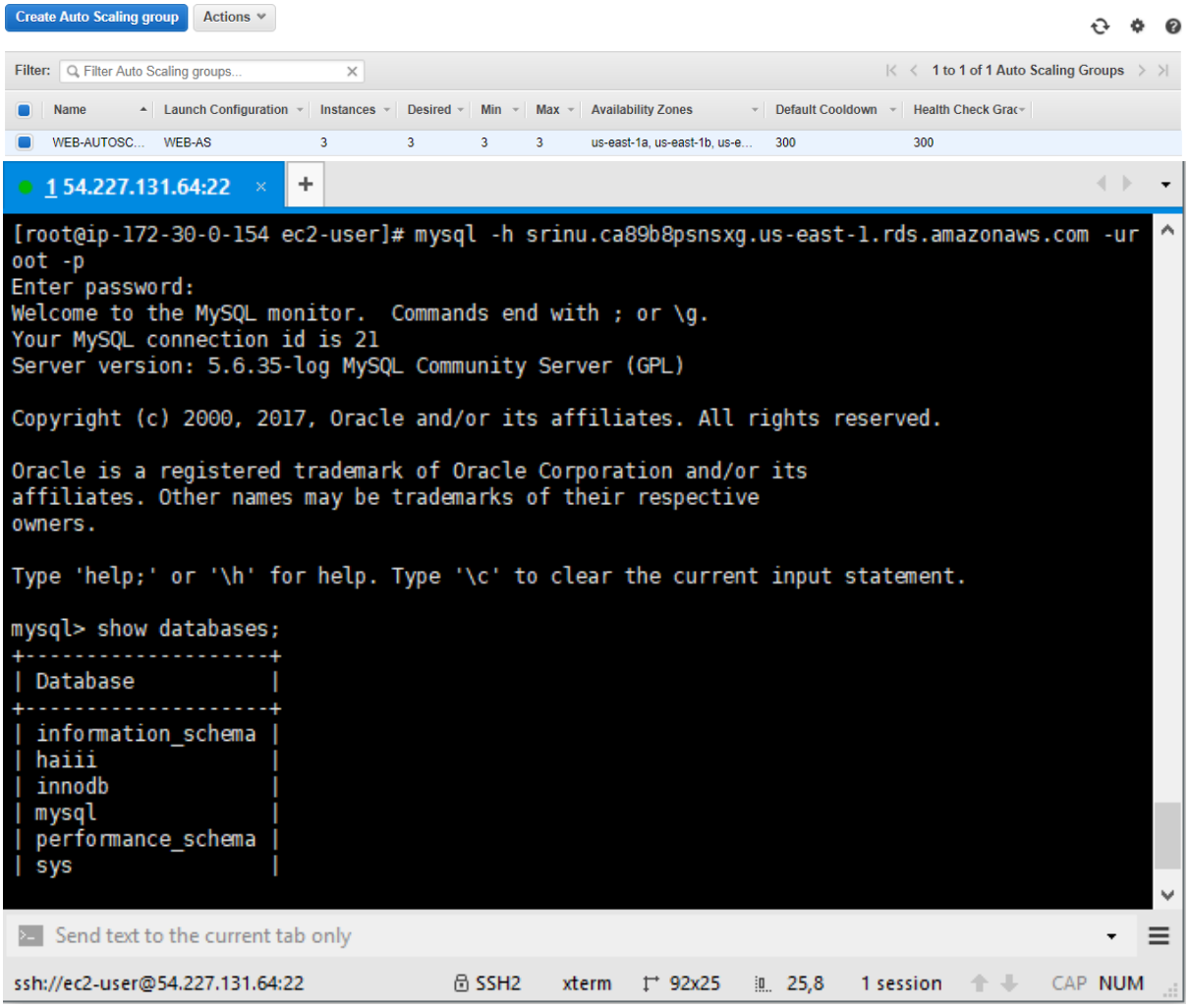
Adding the subnets to create the highly available application.



Here we are setting the alarm to increase and decrease the resources. We are adding the previously created load balancer.



Here we can see the auto scaling process and the defined rules to create the scale in and scale out resources.



So here load balancer will provide one link. We can access those instances from that link.