SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Enterprise Standards and Best Practices for IT Infrastructure

4th Year 2nd Semester 2014

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SLIIT ID: IT13103378

Group Number:

Practical Session: WD Friday

Practical Number : Lab 1

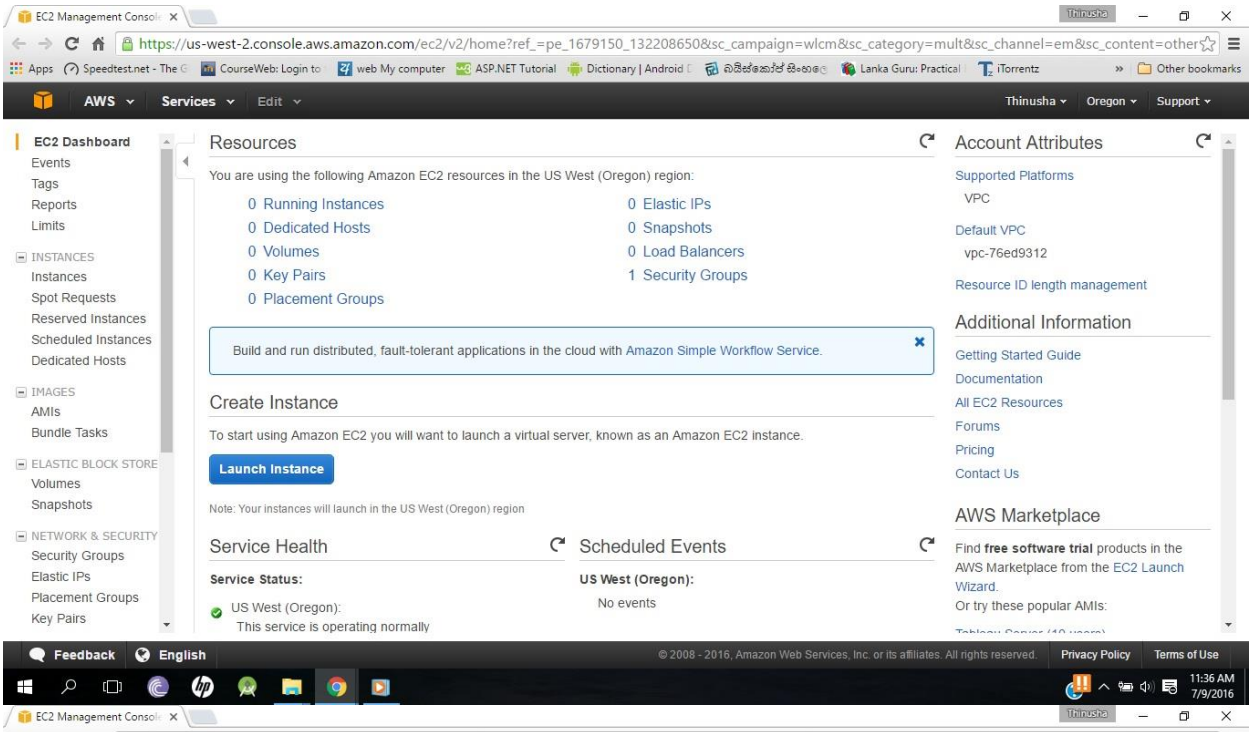
Date of Submission:

Date of Evaluation : _____

Evaluators Signature : _____

Lab 1

Covered Areas
-- Create AWS account -- create Amazon EC2 Windows Instance -- launch Amazon EC2 Windows Instance using remote desktop


EC2 Management Console
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AWS
Services
Edit
Thinusha
Oregon
Support
EC2 Dashboard
Events
Tags
Reports
Limits
INSTANCES
Instances
Spot Requests
Reserved Instances
Scheduled Instances
Dedicated Hosts
IMAGES
AMIs
Bundle Tasks
ELASTIC BLOCK STORE
Volumes
Snapshots
NETWORK & SECURITY
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Resources
You are using the following Amazon EC2 resources in the US West (Oregon) region:
0 Running Instances
0 Dedicated Hosts
0 Volumes
0 Key Pairs
0 Placement Groups
0 Elastic IPs
0 Snapshots
0 Load Balancers
1 Security Groups
Build and run distributed, fault-tolerant applications in the cloud with Amazon Simple Workflow Service.
Create Instance
To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance.
Launch Instance
Note: Your instances will launch in the US West (Oregon) region
Service Health
Service Status:
US West (Oregon):
This service is operating normally
Scheduled Events
US West (Oregon):
No events
Account Attributes
Supported Platforms
VPC
Default VPC
vpc-76ed9312
Resource ID length management
Additional Information
Getting Started Guide
Documentation
All EC2 Resources
Forums
Pricing
Contact Us
AWS Marketplace
Find free software trial products in the AWS Marketplace from the EC2 Launch Wizard.
Or try these popular AMIs:
Feedback
English
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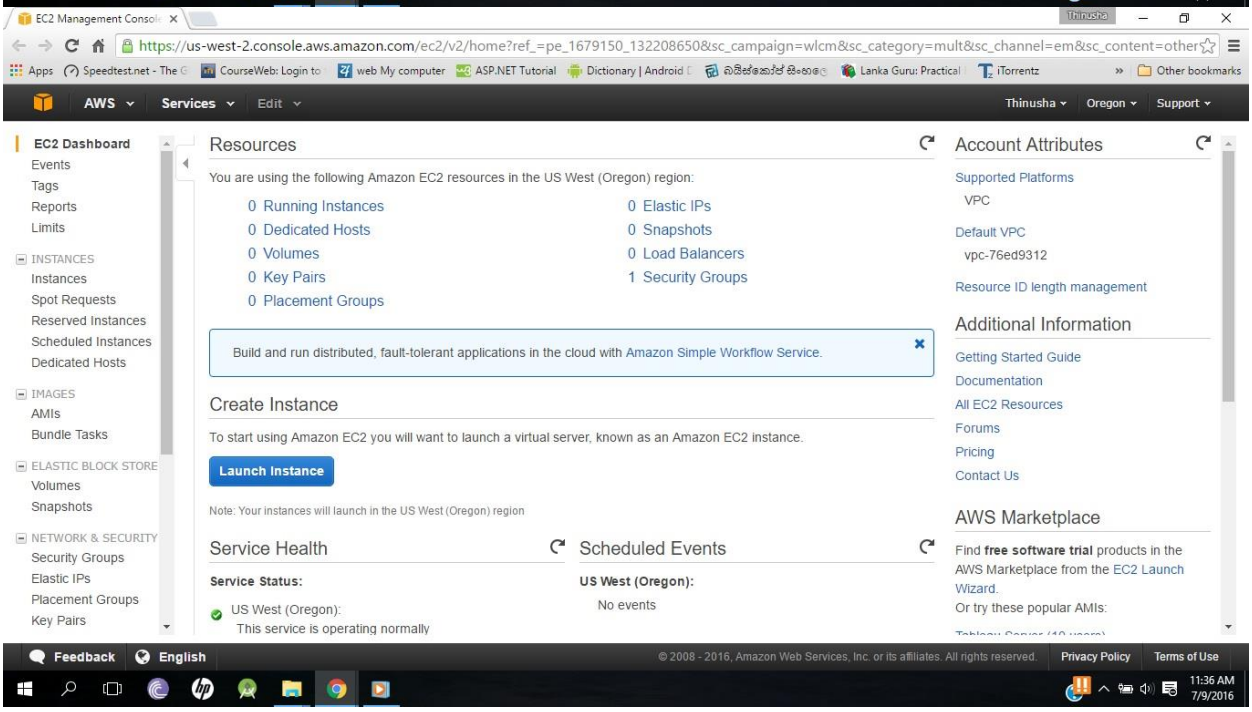
7/9/2016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US West (Oregon):
This service is operating normally
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vpc-76ed9312
Resource ID length management
Additional Information
Getting Started Guide
Documentation
All EC2 Resources
Forums
Pricing
Contact Us
AWS Marketplace
Find free software trial products in the AWS Marketplace from the EC2 Launch Wizard.
Or try these popular AMIs:
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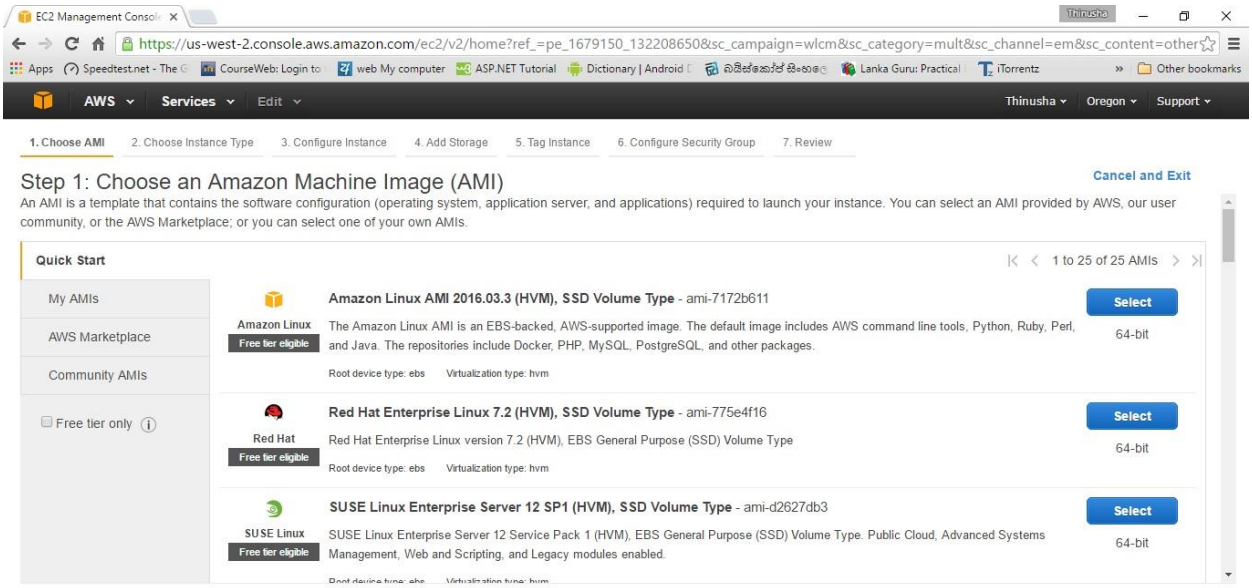
EC2 Management Console
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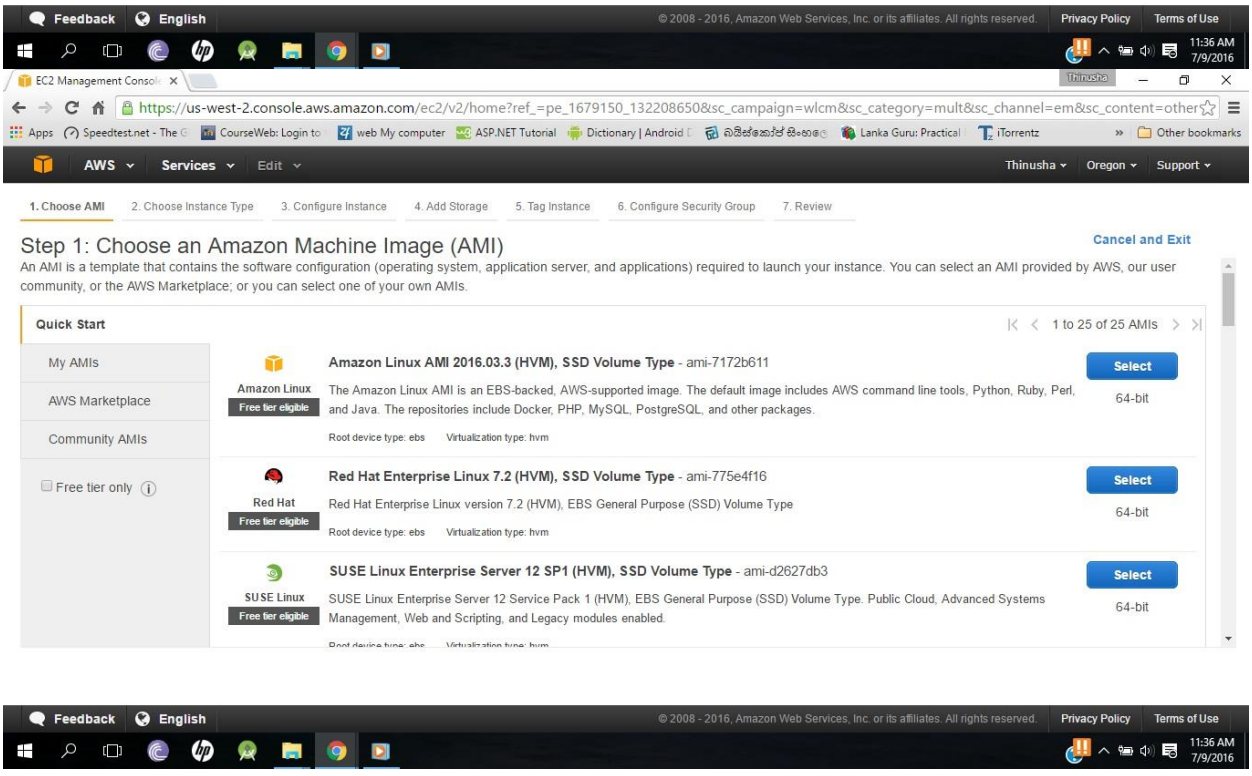
AWS
Services
Edit
Thinusha
Oregon
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Tag Instance
6. Configure Security Group
7. Review
Step 1: Choose an Amazon Machine Image (AMI)
Cancel and Exit
An AMI is a template that contains the software configuration (operating 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
1 to 25 of 25 AMIs
My AMIs
AWS Marketplace
Community AMIs
Free tier only
Amazon Linux AMI 2016.03.3 (HVM), SSD Volume Type - ami-7172b611
Amazon Linux
Free tier eligible
The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.
Root device type: ebs
Virtualization type: hvm
Select
64-bit
Red Hat Enterprise Linux 7.2 (HVM), SSD Volume Type - ami-775e4f16
Red Hat
Free tier eligible
Red Hat Enterprise Linux version 7.2 (HVM), EBS General Purpose (SSD) Volume Type
Root device type: ebs
Virtualization type: hvm
Select
64-bit
SUSE Linux Enterprise Server 12 SP1 (HVM), SSD Volume Type - ami-d2627db3
SUSE Linux
Free tier eligible
SUSE Linux Enterprise Server 12 Service Pack 1 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems Management, Web and Scripting, and Legacy modules enabled.
Select
64-bit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Root device type: ebs
Virtualization type: hvm
Select
64-bit
Red Hat Enterprise Linux 7.2 (HVM), SSD Volume Type - ami-775e4f16
Red Hat
Free tier eligible
Red Hat Enterprise Linux version 7.2 (HVM), EBS General Purpose (SSD) Volume Type
Root device type: ebs
Virtualization type: hvm
Select
64-bit
SUSE Linux Enterprise Server 12 SP1 (HVM), SSD Volume Type - ami-d2627db3
SUSE Linux
Free tier eligible
SUSE Linux Enterprise Server 12 Service Pack 1 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems Management, Web and Scripting, and Legacy modules enabled.
Select
64-bit
Feedback
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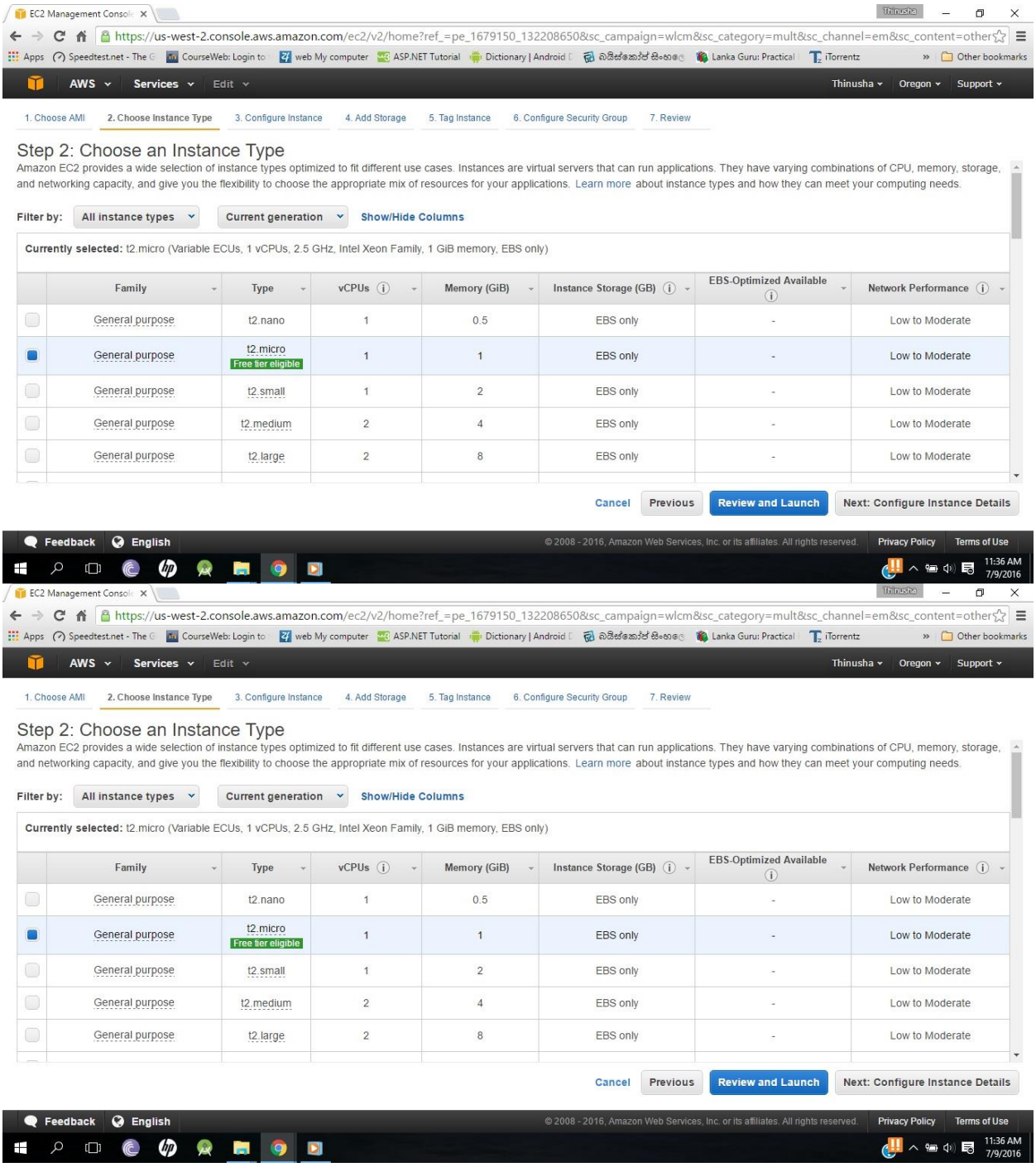

EC2 Management Console
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AWS
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Edit
Thinusha
Oregon
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Tag Instance
6. Configure Security Group
7. Review
Step 2: Choose an Instance Type
Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. Learn more about instance types and how they can meet your computing needs.
Filter by:
All instance types
Current generation
Show/Hide Columns
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
General purpose
t2.small
1
2
EBS only
-
Low to Moderate
General purpose
t2.medium
2
4
EBS only
-
Low to Moderate
General purpose
t2.large
2
8
EBS only
-
Low to Moderate
Cancel
Previous
Review and Launch
Next: Configure Instance Details
Feedback
English
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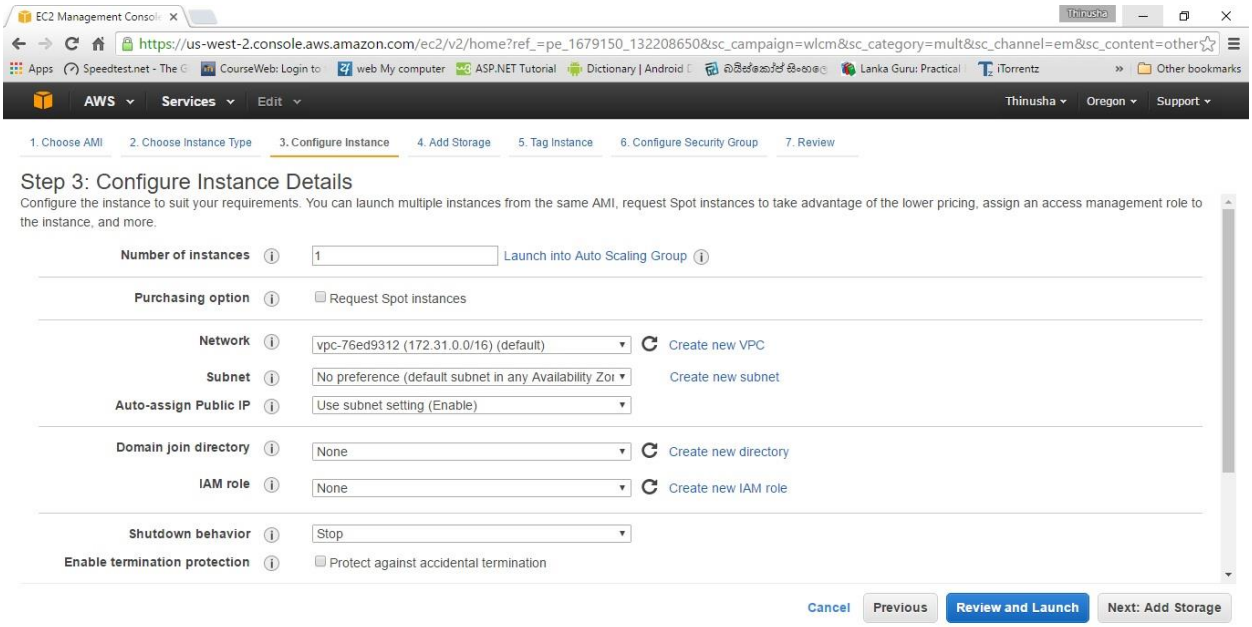
EC2 Management Console
https://us-west-2.console.aws.amazon.com/ec2/v2/home?ref_=pe_1679150_132208650&sc_campaign=wlcm&sc_category=mult&sc_channel=em&sc_content=other
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Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Tag Instance
6. Configure Security Group
7. Review
Step 3: Configure Instance Details
Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.
Number of instances
1
Launch into Auto Scaling Group
Purchasing option
Request Spot instances
Network
vpc-76ed9312 (172.31.0.0/16) (default)
Create new VPC
Subnet
No preference (default subnet in any Availability Zo
Create new subnet
Auto-assign Public IP
Use subnet setting (Enable)
Domain join directory
None
Create new directory
IAM role
None
Create new IAM role
Shutdown behavior
Stop
Enable termination protection
Protect against accidental termination
Cancel
Previous
Review and Launch
Next: Add Storage
Feedback
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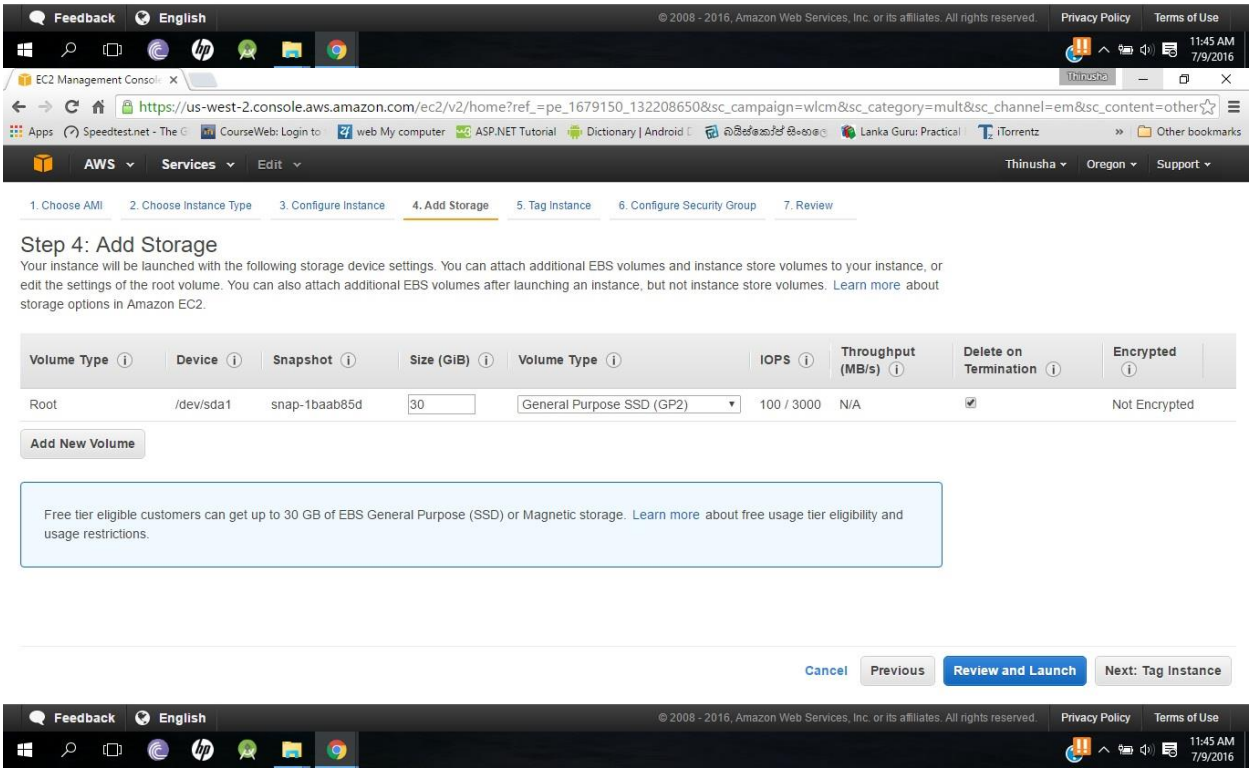
EC2 Management Console
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7. Review
Step 4: Add Storage
Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. Learn more about storage options in Amazon EC2.
Volume Type
Device
Snapshot
Size (GiB)
Volume Type
IOPS
Throughput (MB/s)
Delete on Termination
Encrypted
Root
/dev/sda1
snap-1baab85d
30
General Purpose SSD (GP2)
100 / 3000
N/A
Not Encrypted
Add New Volume
Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. Learn more about free usage tier eligibility and usage restrictions.
Cancel
Previous
Review and Launch
Next: Tag Instance
Feedback
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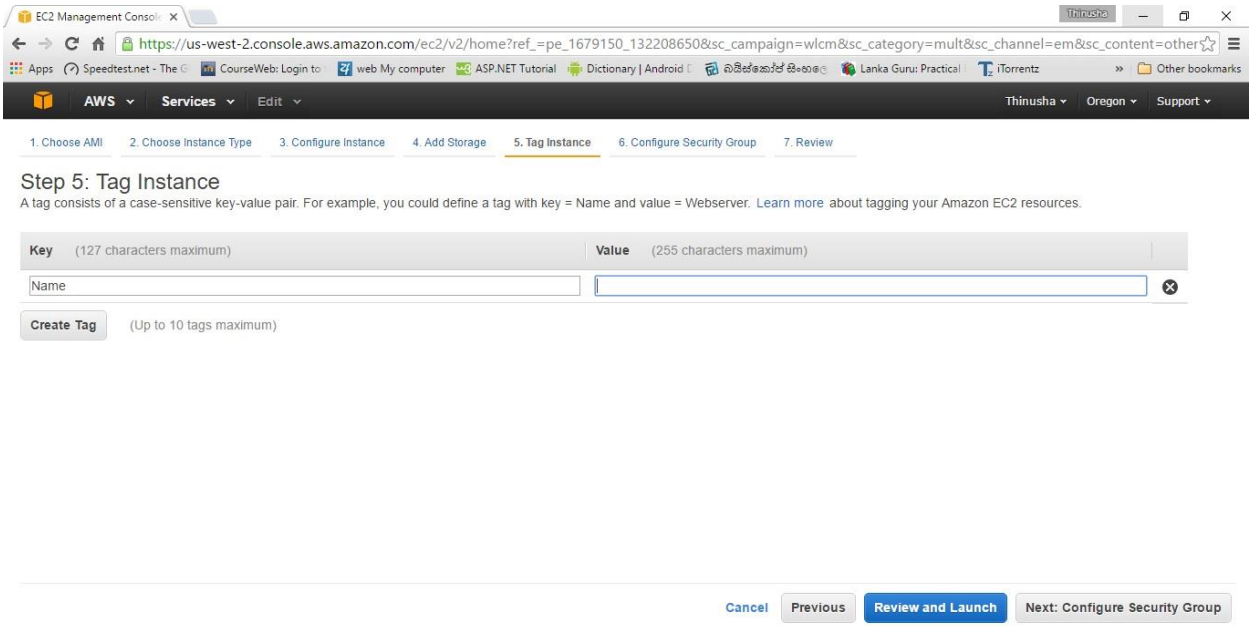
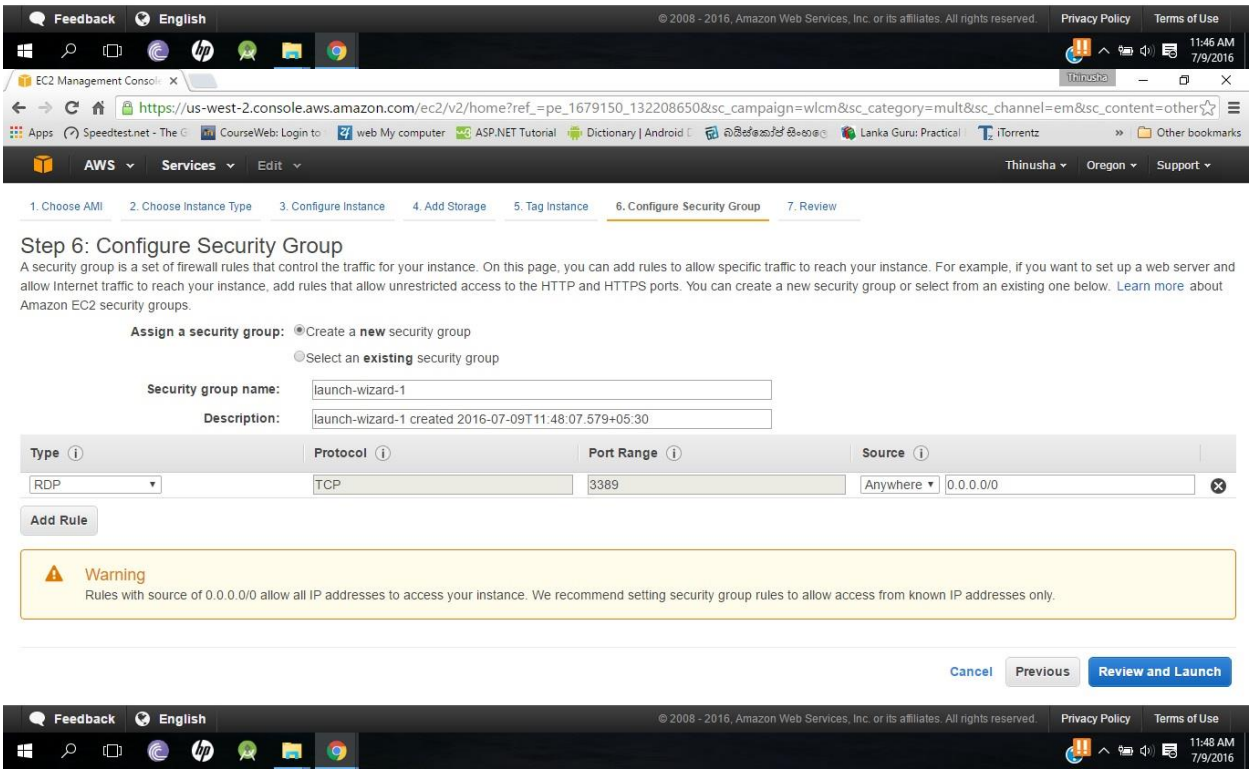

EC2 Management Console
https://us-west-2.console.aws.amazon.com/ec2/v2/home?ref_=pe_1679150_132208650&sc_campaign=wlcm&sc_category=mult&sc_channel=em&sc_content=other
AWS
Services
Edit
Thinusha
Oregon
Support
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Tag Instance
6. Configure Security Group
7. Review
Step 5: Tag Instance
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 (127 characters maximum)
Value (255 characters maximum)
Name
Create Tag
(Up to 10 tags maximum)
Cancel
Previous
Review and Launch
Next: Configure Security Group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5. Tag Instance
6. Configure Security Group
7. Review
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 name:
launch-wizard-1
Description:
launch-wizard-1 created 2016-07-09T11:48:07.579+05:30
Type
Protocol
Port Range
Source
RDP
TCP
3389
Anywhere
0.0.0.0/0
Add Rule
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.
Cancel
Previous
Review and Launch
Feedback
English
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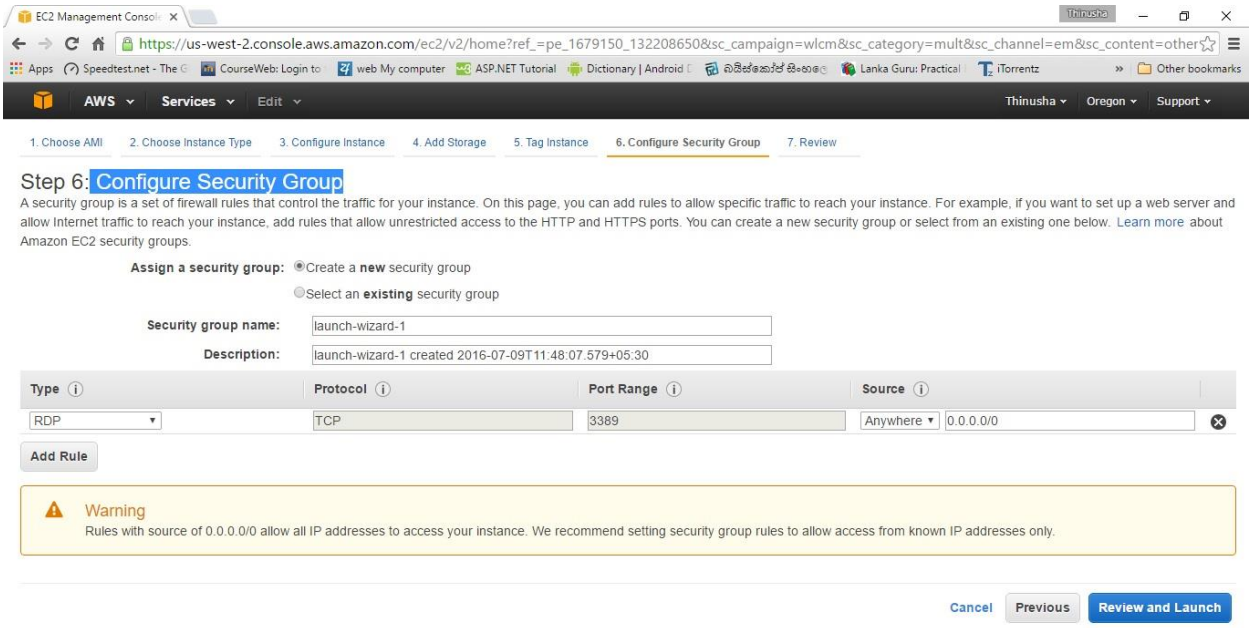
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Assign a security group: Create a new security group
Select an existing security group
Security group name: launch-wizard-1
Description: launch-wizard-1 created 2016-07-09T11:48:07.579+05:30
Type
Protocol
Port Range
Source
RDP
TCP
3389
Anywhere
0.0.0.0/0
Add Rule
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.
Cancel
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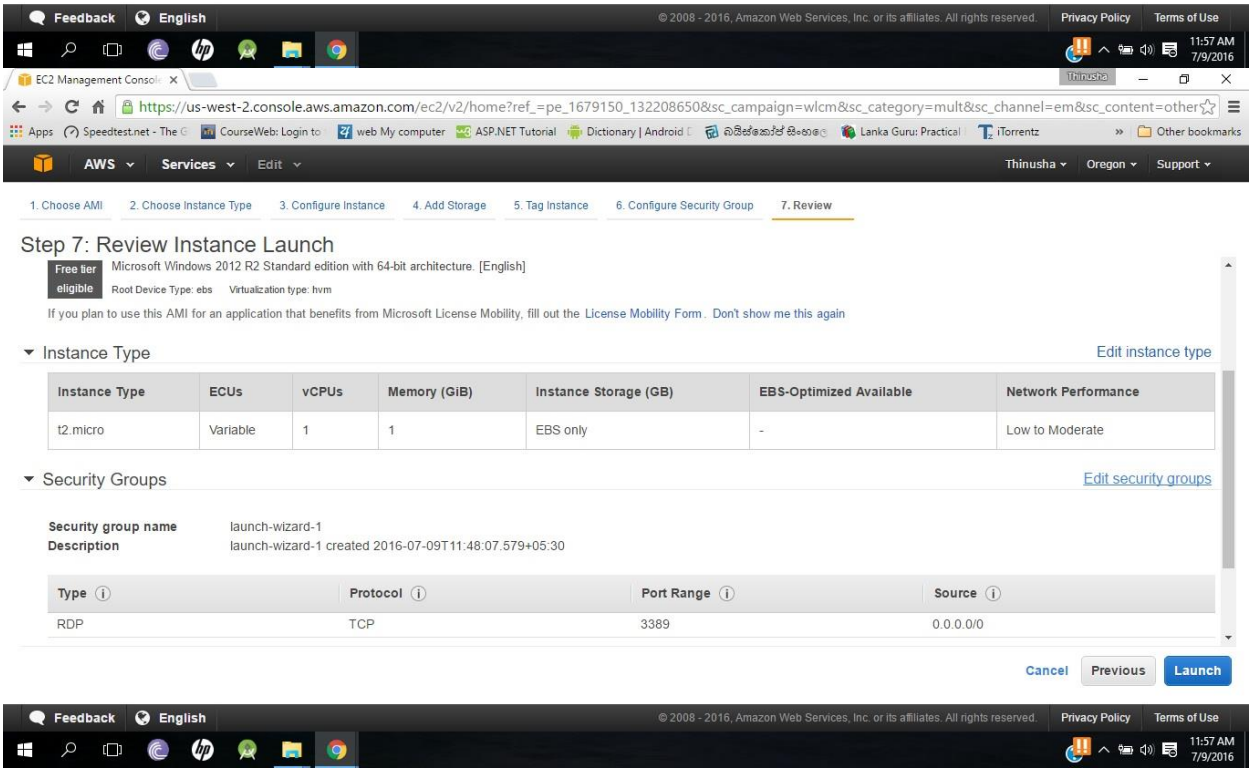
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2. Choose Instance Type
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4. Add Storage
5. Tag Instance
6. Configure Security Group
7. Review
Step 7: Review Instance Launch
Free tier eligible
Microsoft Windows 2012 R2 Standard edition with 64-bit architecture. [English]
Root Device Type: ebs
Virtualization type: hvm
If you plan to use this AMI for an application that benefits from Microsoft License Mobility, fill out the License Mobility Form. Don't show me this again
Instance Type
Edit instance type
Instance Type
ECUs
vCPUs
Memory (GiB)
Instance Storage (GB)
EBS-Optimized Available
Network Performance
t2.micro
Variable
1
1
EBS only
-
Low to Moderate
Security Groups
Edit security groups
Security group name
launch-wizard-1
Description
launch-wizard-1 created 2016-07-09T11:48:07.579+05:30
Type
Protocol
Port Range
Source
RDP
TCP
3389
0.0.0.0/0
Cancel
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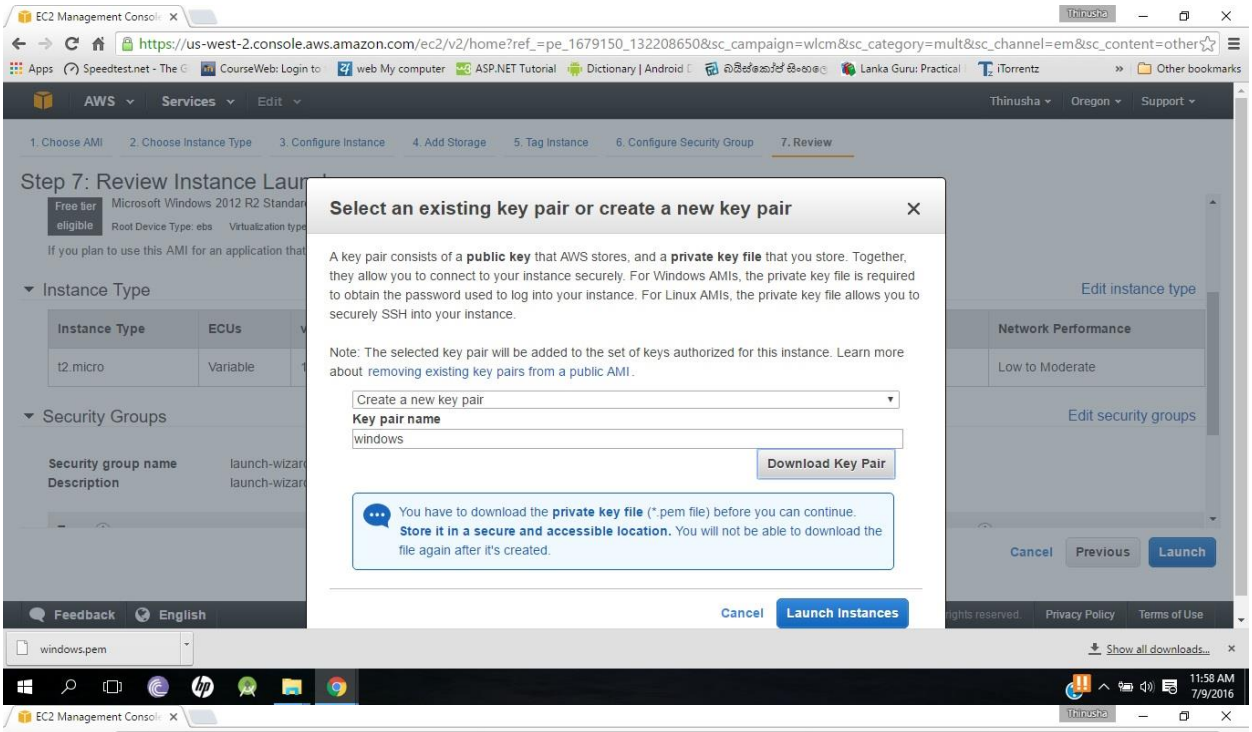
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4. Add Storage
5. Tag Instance
6. Configure Security Group
7. Review
Step 7: Review Instance Laun
Free tier eligible
Microsoft Windows 2012 R2 Standar
Root Device Type: ebs
Virtualization type
If you plan to use this AMI for an application that
Instance Type
Edit instance type
Instance Type
ECUs
Network Performance
t2.micro
Variable
Low to Moderate
Security Groups
Edit security groups
Security group name
launch-wizar
Description
launch-wizar
Cancel
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Launch
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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.
Create a new key pair
Key pair name
windows
Download Key Pair
You have to download the private key file (*.pem file) before you can continue. Store it in a secure and accessible location. You will not be able to download the file again after it's created.
Cancel
Launch Instances
windows.pem
Show all downloads...
11:58 AM
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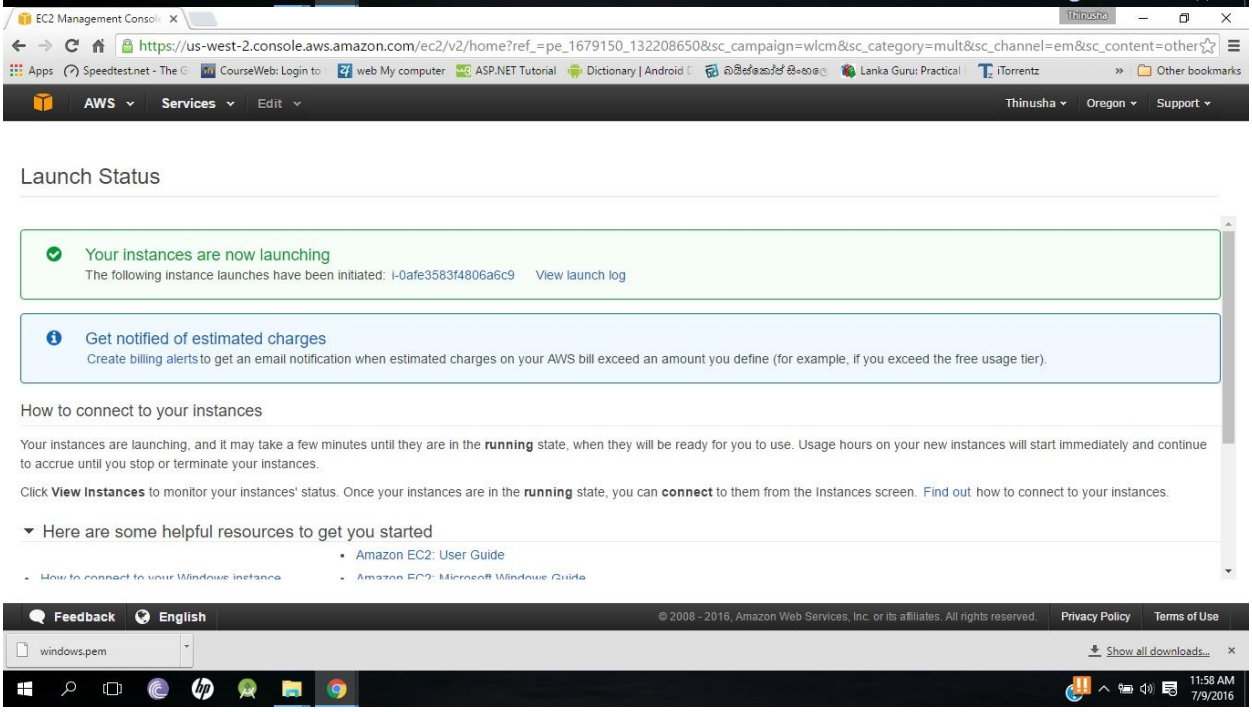
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AWS
Services
Edit
Thinusha
Oregon
Support
Launch Status
Your instances are now launching
The following instance launches have been initiated: i-0afe3583f4806a6c9
View launch log
Get notified of estimated charges
Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).
How to connect to your instances
Your instances are launching, and it may take a few minutes until they are in the running state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.
Click View Instances to monitor your instances' status. Once your instances are in the running state, you can connect to them from the Instances screen. Find out how to connect to your instances.
Here are some helpful resources to get you started
Amazon EC2: User Guide
Feedback
English
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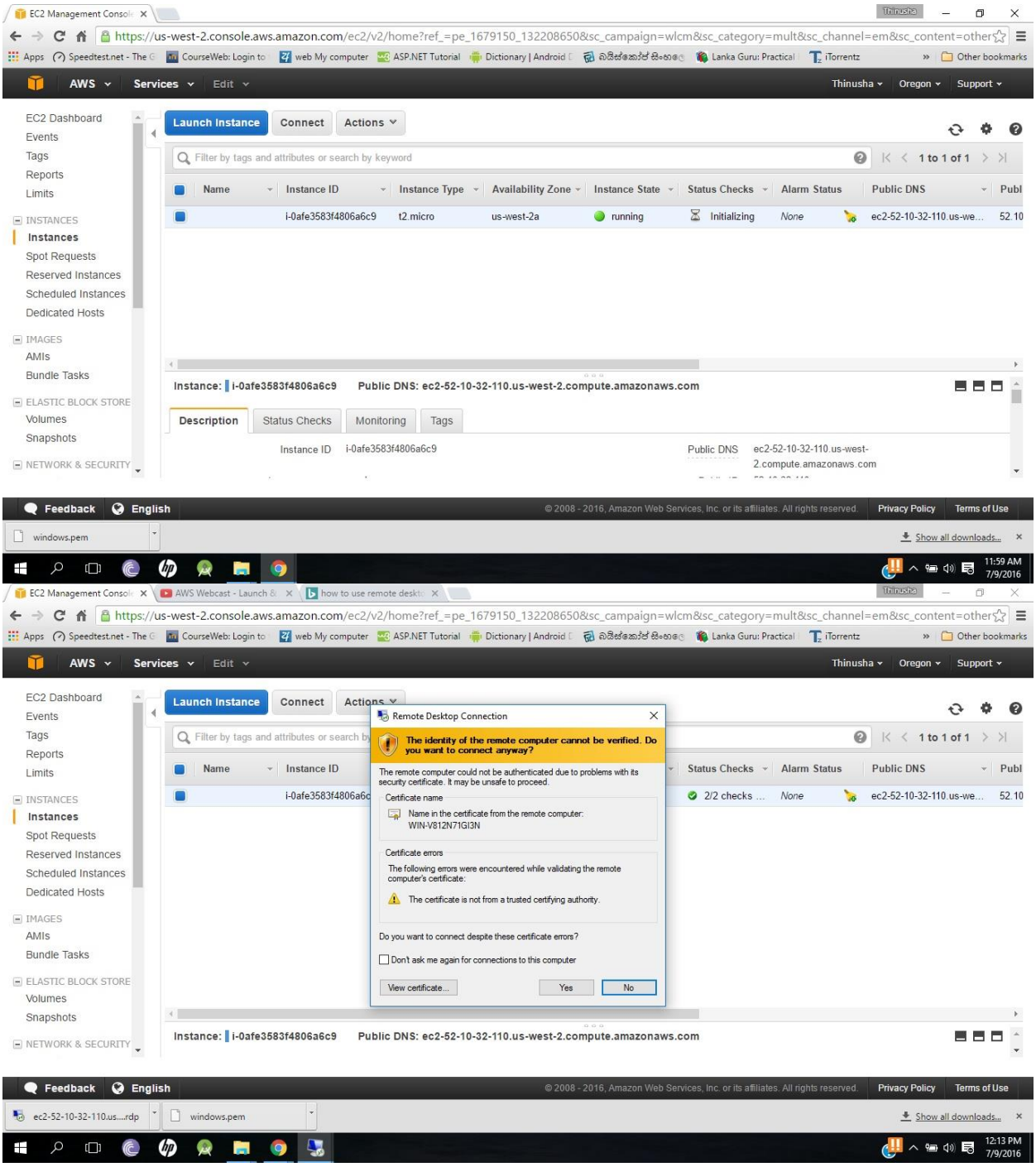
Privacy Policy
Terms of Use
windows.pem
Show all downloads...
11:58 AM
7/9/2016


EC2 Management Console
https://us-west-2.console.aws.amazon.com/ec2/v2/home?ref_=pe_1679150_132208650&sc_campaign=wlcm&sc_category=mult&sc_channel=em&sc_content=other
AWS
Services
Edit
Thinusha
Oregon
Support
EC2 Dashboard
Events
Tags
Reports
Limits
INSTANCES
Instances
Spot Requests
Reserved Instances
Scheduled Instances
Dedicated Hosts
IMAGES
AMIs
Bundle Tasks
ELASTIC BLOCK STORE
Volumes
Snapshots
NETWORK & SECURITY
Launch Instance
Connect
Actions
Filter by tags and attributes or search by keyword
1 to 1 of 1
Name
Instance ID
Instance Type
Availability Zone
Instance State
Status Checks
Alarm Status
Public DNS
i-0afe3583f4806a6c9
t2.micro
us-west-2a
running
Initializing
None
ec2-52-10-32-110.us-we...
Instance: i-0afe3583f4806a6c9
Public DNS: ec2-52-10-32-110.us-west-2.compute.amazonaws.com
Description
Status Checks
Monitoring
Tags
Instance ID
i-0afe3583f4806a6c9
Public DNS
ec2-52-10-32-110.us-west-2.compute.amazonaws.com
Feedback
English
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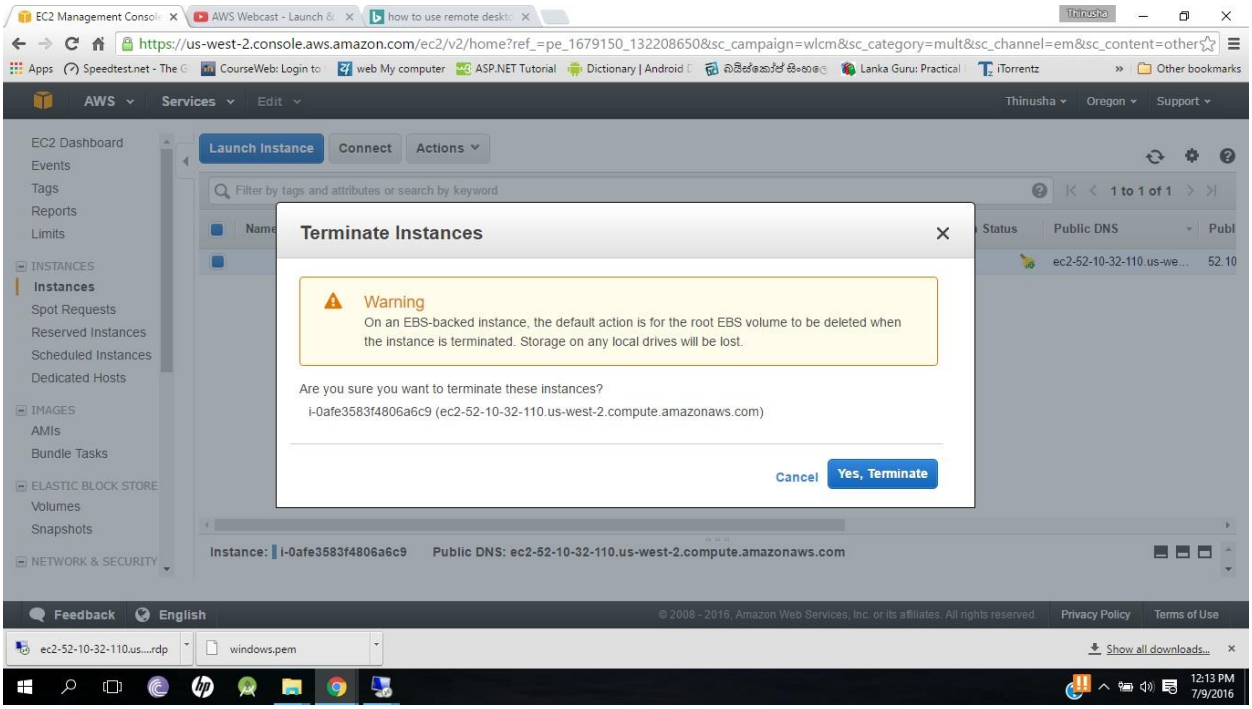
Terms of Use
windows.pem
Show all downloads...
11:59 AM
7/9/2016

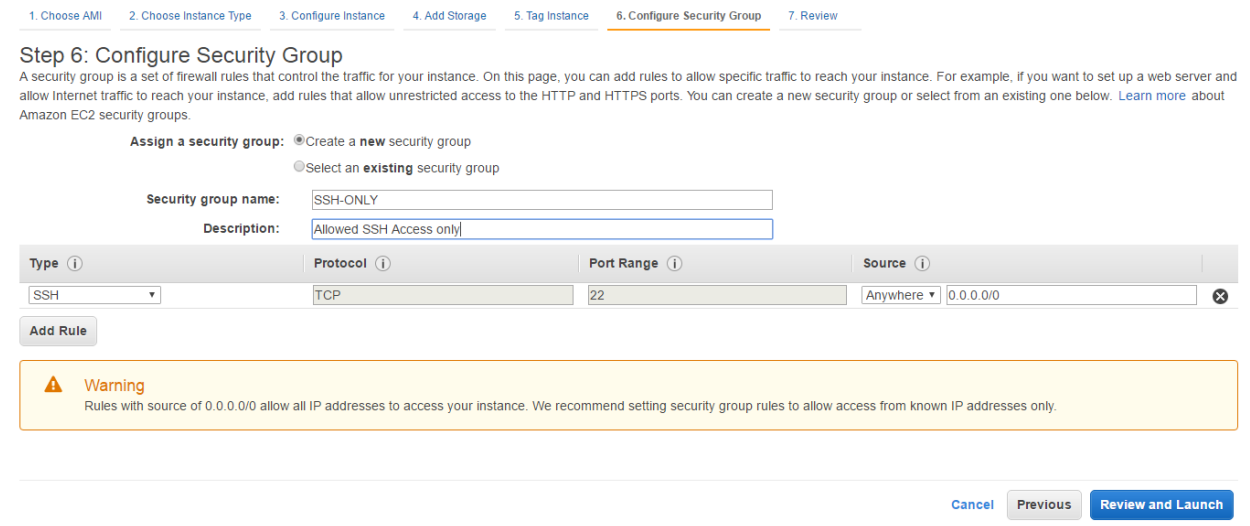
EC2 Management Console
AWS Webcast - Launch &
how to use remote deskto
https://us-west-2.console.aws.amazon.com/ec2/v2/home?ref_=pe_1679150_132208650&sc_campaign=wlcm&sc_category=mult&sc_channel=em&sc_content=other
Launch Instance
Connect
Actions
Remote Desktop Connection
The identity of the remote computer cannot be verified. Do you want to connect anyway?
The remote computer could not be authenticated due to problems with its security certificate. It may be unsafe to proceed.
Certificate name
Name in the certificate from the remote computer:
WIN-V812N71GI3N
Certificate errors
The following errors were encountered while validating the remote computer's certificate:
The certificate is not from a trusted certifying authority.
Do you want to connect despite these certificate errors?
Don't ask me again for connections to this computer
View certificate...
Yes
No
2/2 checks ...
Instance: i-0afe3583f4806a6c9
Public DNS: ec2-52-10-32-110.us-west-2.compute.amazonaws.com
Feedback
English
© 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved.
Privacy Policy
Terms of Use
ec2-52-10-32-110.us....rdp
windows.pem
Show all downloads...
12:13 PM
7/9/2016

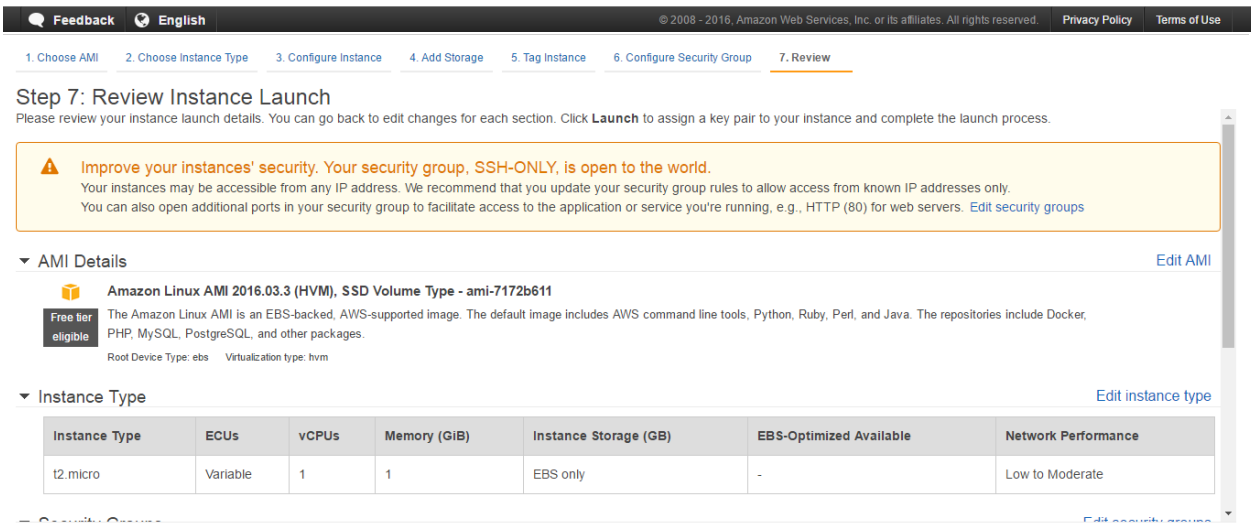


Lab 2

Covered Areas

-- Create Amazon EC2 Linux Instance -- PuTTY download PuTTY configuration Connecting Linux Instance from Windows Using PuTTY


1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Tag Instance
6. Configure Security Group
7. Review
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 name: SSH-ONLY
Description: Allowed SSH Access only
Type
Protocol
Port Range
Source
SSH
TCP
22
Anywhere
0.0.0.0/0
Add Rule
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.
Cancel
Previous
Review and Launch


Feedback
English
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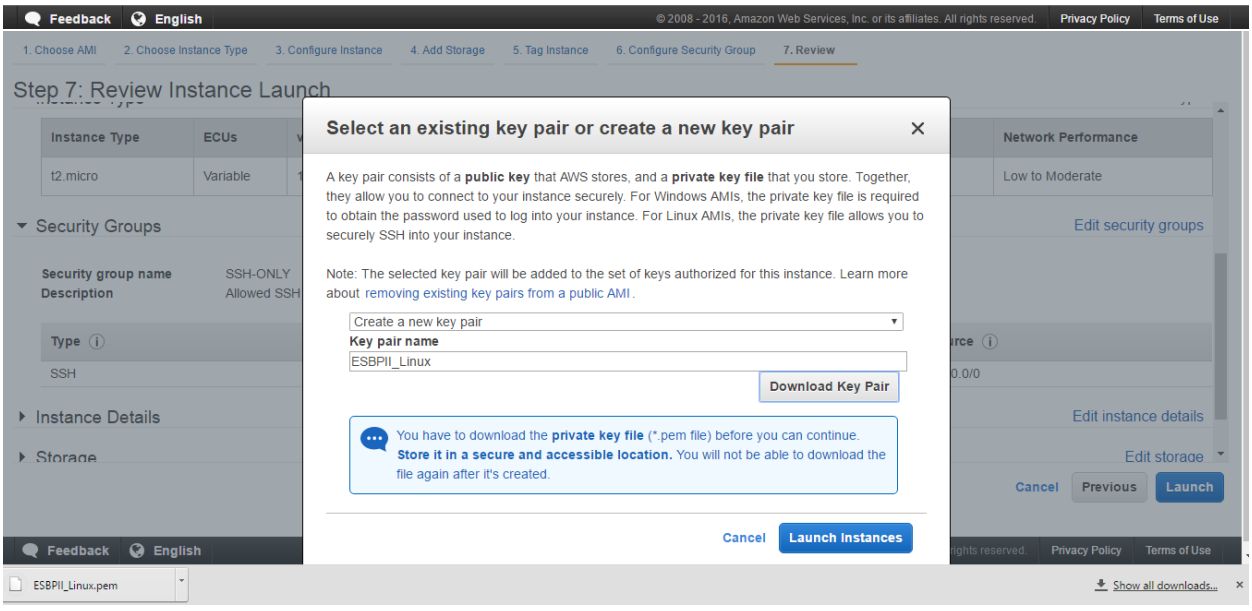
Terms of Use
1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Tag Instance
6. Configure Security Group
7. Review
Step 7: Review Instance Launch
Please review your instance launch details. You can go back to edit changes for each section. Click Launch to assign a key pair to your instance and complete the launch process.
Improve your instances' security. Your security group, SSH-ONLY, is open to the world.
Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only.
You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. Edit security groups
AMI Details
Edit AMI
Amazon Linux AMI 2016.03.3 (HVM), SSD Volume Type - ami-7172b611
Free tier eligible
The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.
Root Device Type: ebs
Virtualization type: hvm
Instance Type
Edit instance type
Instance Type
ECUs
vCPUs
Memory (GiB)
Instance Storage (GB)
EBS-Optimized Available
Network Performance
t2.micro
Variable
1
1
EBS only
-
Low to Moderate
Cancel
Previous
Launch


Feedback
English
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Terms of Use
Step 7: Review Instance Launch
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.
Create a new key pair
Key pair name
ESBPII_Linux
Download Key Pair
You have to download the private key file (*.pem file) before you can continue. Store it in a secure and accessible location. You will not be able to download the file again after it's created.
Cancel
Launch Instances
Security Groups
Edit security groups
Instance Details
Edit instance details
Storage
Edit storage
Cancel
Previous
Launch
ESBPII_Linux.pem
Show all downloads...

Launch Status

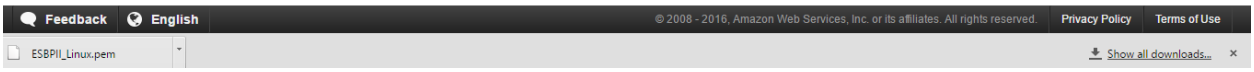
Initiating Instance Launches

Please do not close your browser while this is loading

Creating security groups... Successful

Authorizing inbound rules... Successful

Initiating launches...



Launch Status

Your instances are now launching

The following instance launches have been initiated: i-053a9669b46f3dac0 View launch log

Get notified of estimated charges

Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

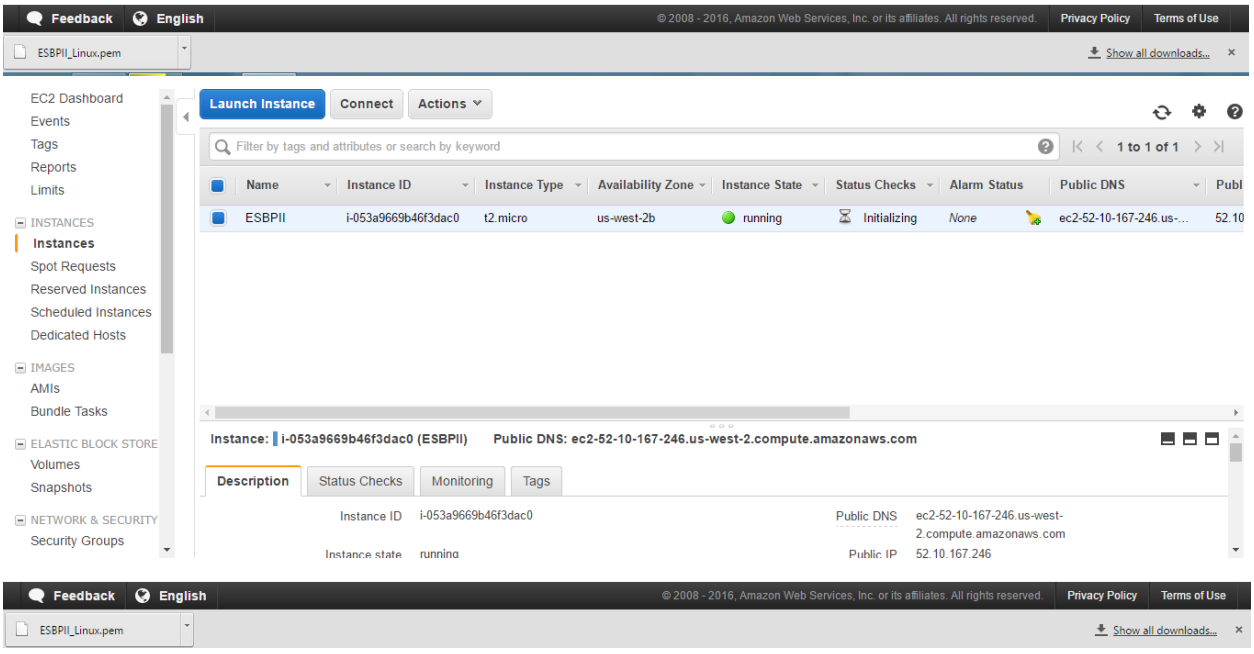
How to connect to your instances

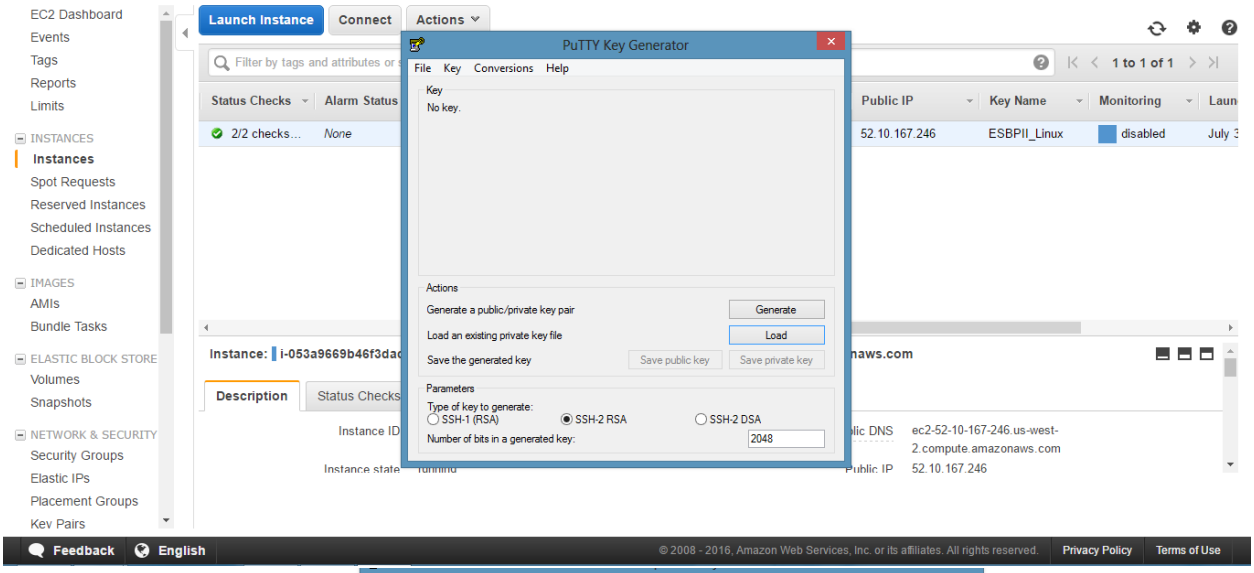
Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click **View Instances** to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. Find out how to connect to your instances.

Here are some helpful resources to get you started

- How to connect to your Linux instance
- Learn about AWS Free Usage Tier
- Amazon EC2: User Guide
- Amazon EC2: Discussion Forum




EC2 Dashboard
Events
Tags
Reports
Limits
INSTANCES
Instances
Spot Requests
Reserved Instances
Scheduled Instances
Dedicated Hosts
IMAGES
AMIs
Bundle Tasks
ELASTIC BLOCK STORE
Volumes
Snapshots
NETWORK & SECURITY
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Launch Instance
Connect
Actions
PuTTY Key Generator
File Key Conversions Help
Key
No key.
Actions
Generate a public/private key pair
Generate
Load an existing private key file
Load
Save the generated key
Save public key
Save private key
Parameters
Type of key to generate:
SSH-1 (RSA)
SSH-2 RSA
SSH-2 DSA
Number of bits in a generated key:
2048
1 to 1 of 1
Public IP
Key Name
Monitoring
52.10.167.246
ESBPII_Linux
disabled
Description
Status Checks
Instance ID
Instance state
Public DNS
ec2-52-10-167-246.us-west-2.compute.amazonaws.com
Feedback
English
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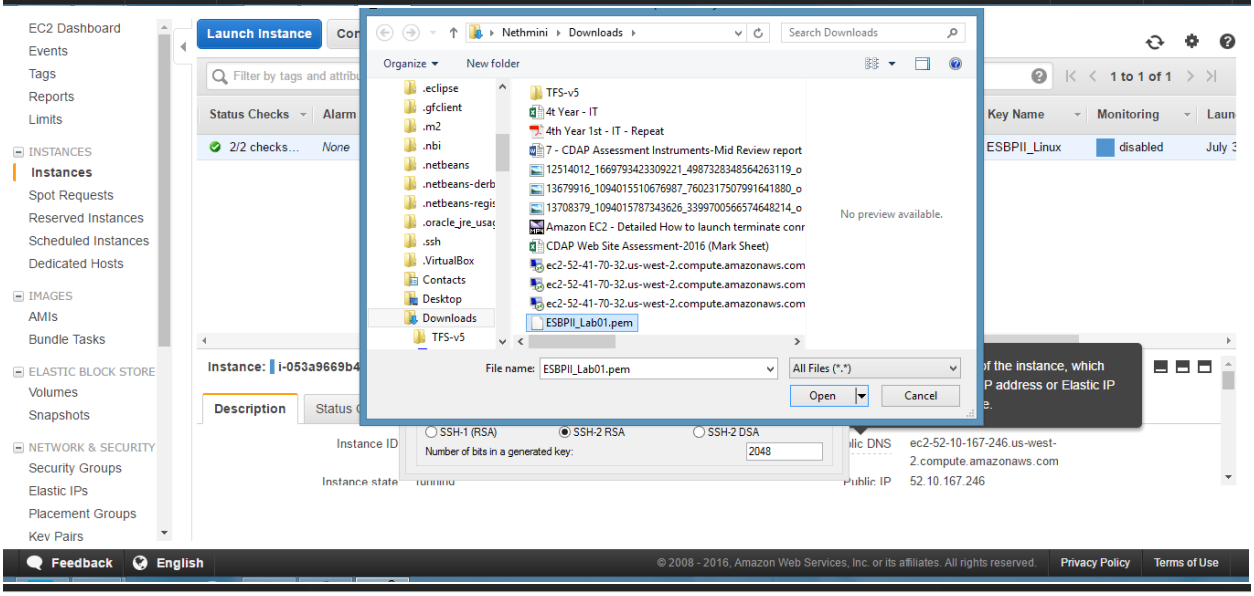
Nethmini ▸ Downloads ▸
Search Downloads
Organize
New folder
.eclipse
.gfclient
.m2
.nbi
.netbeans
.ssh
.VirtualBox
Contacts
Desktop
Downloads
TFS-v5
4t Year - IT
4th Year 1st - IT - Repeat
7 - CDAP Assessment Instruments-Mid Review report
Amazon EC2 - Detailed How to launch terminate conr
CDAP Web Site Assessment-2016 (Mark Sheet)
ec2-52-41-70-32.us-west-2.compute.amazonaws.com
ESBPII_Lab01.pem
No preview available.
File name: ESBPII_Lab01.pem
All Files (*.*)
Open
Cancel
Launch Instance
Connect
Actions
1 to 1 of 1
Public IP
Key Name
Monitoring
52.10.167.246
ESBPII_Linux
disabled
Description
Status Checks
Instance ID
Instance state
Public DNS
ec2-52-10-167-246.us-west-2.compute.amazonaws.com
Feedback
English
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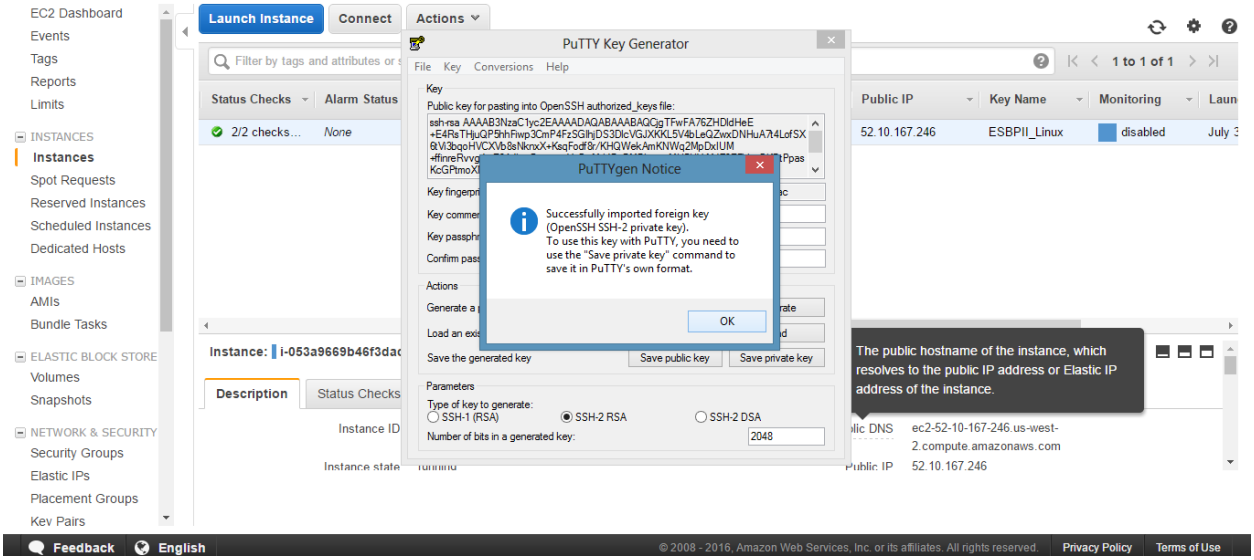
PuTTY Key Generator
File Key Conversions Help
Key
Public key for pasting into OpenSSH authorized_keys file:
PuTTYgen Notice
Successfully imported foreign key (OpenSSH SSH-2 private key).
To use this key with PuTTY, you need to use the "Save private key" command to save it in PuTTY's own format.
OK
Actions
Save the generated key
Save public key
Save private key
Parameters
Type of key to generate:
SSH-1 (RSA)
SSH-2 RSA
SSH-2 DSA
Number of bits in a generated key:
2048
The public hostname of the instance, which resolves to the public IP address or Elastic IP address of the instance.
Launch Instance
Connect
Actions
1 to 1 of 1
Public IP
Key Name
Monitoring
52.10.167.246
ESBPII_Linux
disabled
Description
Status Checks
Instance ID
Instance state
Public DNS
ec2-52-10-167-246.us-west-2.compute.amazonaws.com
Feedback
English
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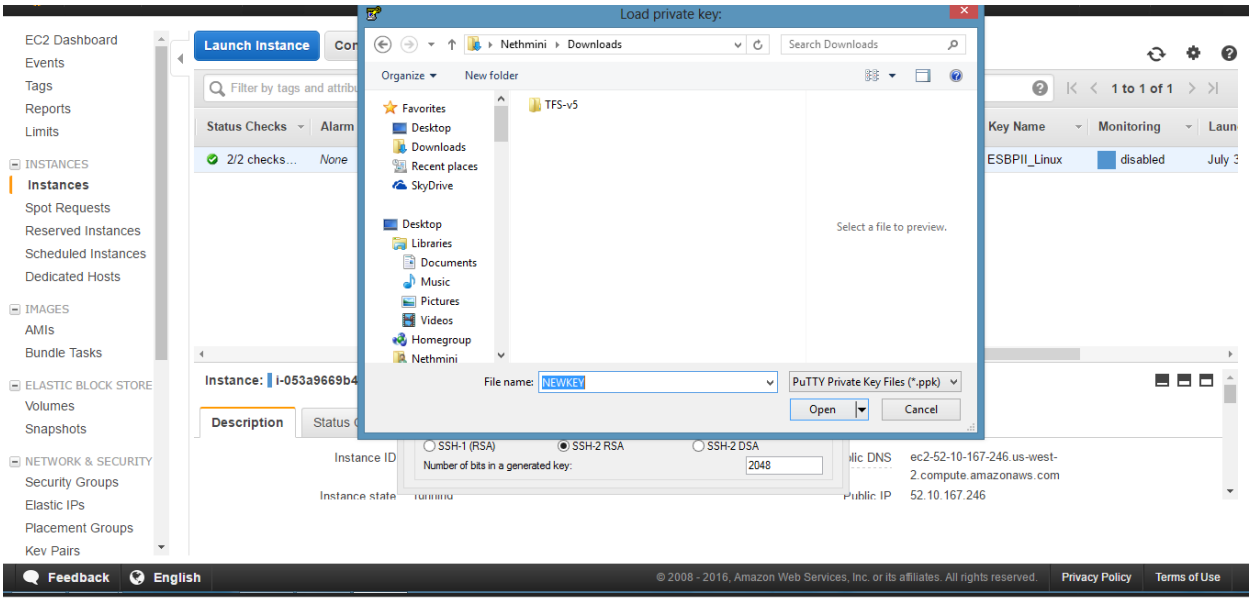
Load private key:
Nethmini ▸ Downloads
Search Downloads
Organize
New folder
Favorites
Desktop
Downloads
Recent places
SkyDrive
Libraries
Documents
Music
Pictures
Videos
Homegroup
Nethmini
TFS-v5
Select a file to preview.
File name: NEWKEY
PuTTY Private Key Files (*.ppk)
Open
Cancel
SSH-1 (RSA)
SSH-2 RSA
SSH-2 DSA
Number of bits in a generated key:
2048
EC2 Dashboard
Events
Tags
Reports
Limits
INSTANCES
Instances
Spot Requests
Reserved Instances
Scheduled Instances
Dedicated Hosts
IMAGES
AMIs
Bundle Tasks
ELASTIC BLOCK STORE
Volumes
Snapshots
NETWORK & SECURITY
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Launch Instance
1 to 1 of 1
Status Checks
Key Name
Monitoring
2/2 checks...
None
ESBPII_Linux
disabled
Description
Instance ID
Public DNS
ec2-52-10-167-246.us-west-2.compute.amazonaws.com
Public IP
52.10.167.246
Feedback
English
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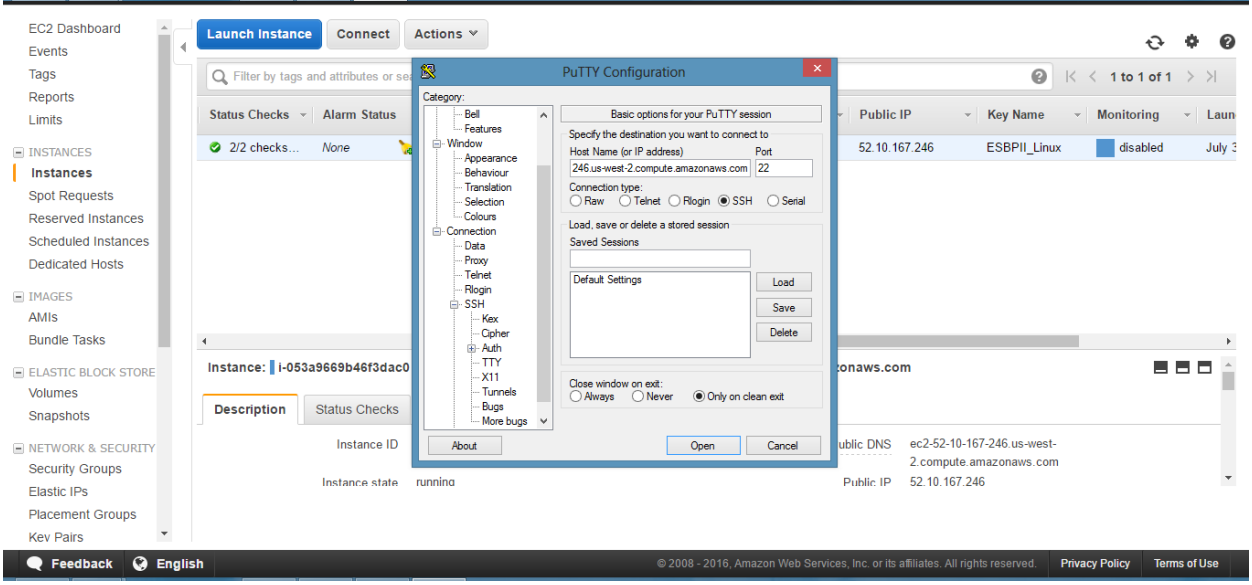
PuTTY Configuration
Category:
Session
Logging
Terminal
Keyboard
Bell
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
Telnet
Rlogin
SSH
Kex
Cipher
Auth
TTY
X11
Tunnels
Bugs
More bugs
Basic options for your PuTTY session
Specify the destination you want to connect to
Host Name (or IP address)
Port
246.us-west-2.compute.amazonaws.com
22
Connection type:
Raw
Telnet
Rlogin
SSH
Serial
Load, save or delete a stored session
Saved Sessions
Default Settings
Load
Save
Delete
Close window on exit:
Always
Never
Only on clean exit
About
Open
Cancel
EC2 Dashboard
Launch Instance
Connect
Actions
Status Checks
Alarm Status
Public IP
Key Name
Monitoring
2/2 checks...
None
52.10.167.246
ESBPII_Linux
disabled
Description
Status Checks
Instance ID
Public DNS
ec2-52-10-167-246.us-west-2.compute.amazonaws.com
Public IP
52.10.167.246
Feedback
English
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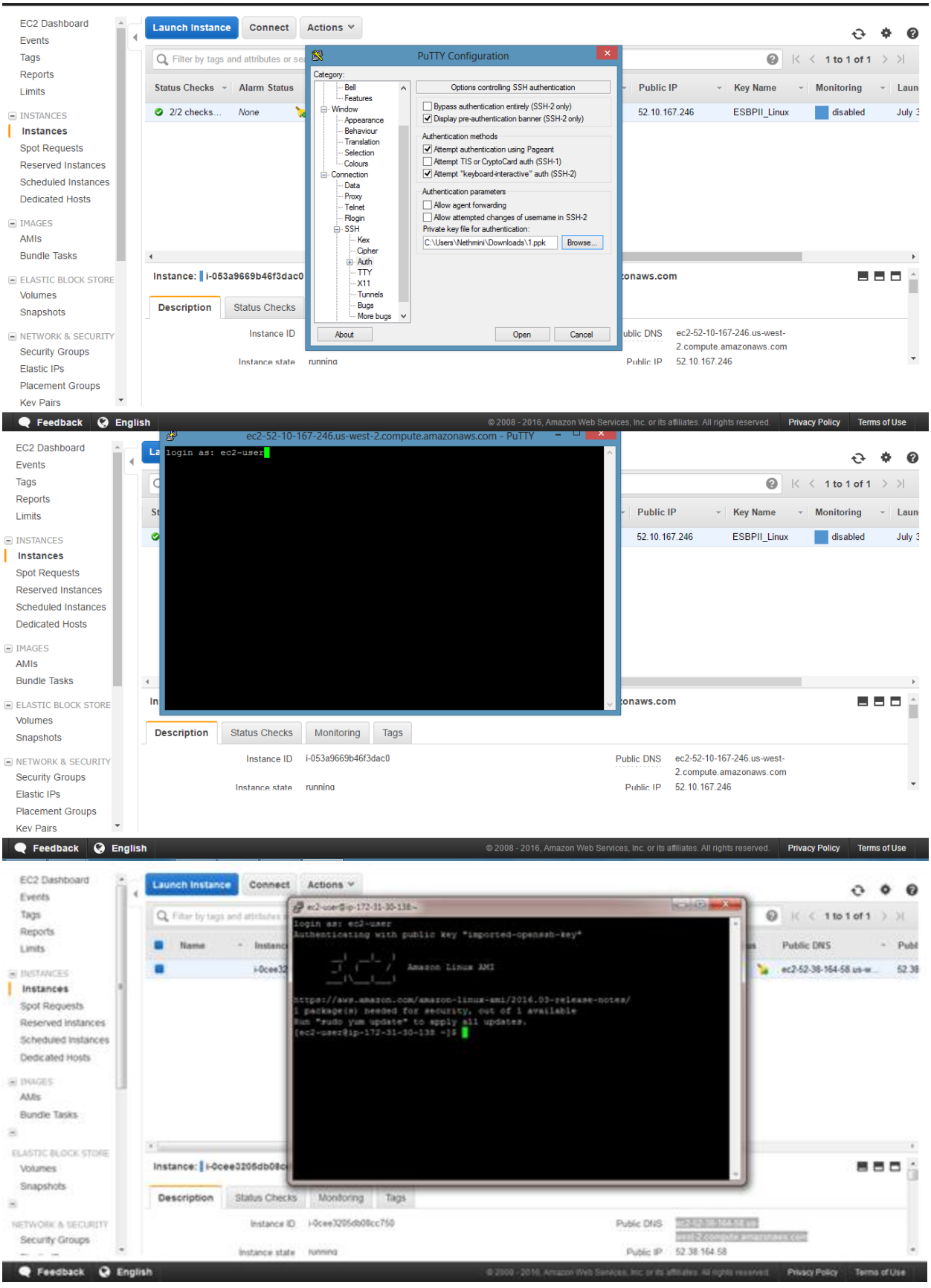
EC2 Dashboard
Events
Tags
Reports
Limits
INSTANCES
Instances
Spot Requests
Reserved Instances
Scheduled Instances
Dedicated Hosts
IMAGES
AMIs
Bundle Tasks
ELASTIC BLOCK STORE
Volumes
Snapshots
NETWORK & SECURITY
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Launch Instance
Connect
Actions
PuTTY Configuration
Category:
Options controlling SSH authentication
Bypass authentication entirely (SSH-2 only)
Display pre-authentication banner (SSH-2 only)
Authentication methods
Attempt authentication using Pageant
Attempt TIS or CryptoCard auth (SSH-1)
Attempt "keyboard-interactive" auth (SSH-2)
Authentication parameters
Allow agent forwarding
Allow attempted changes of username in SSH-2
Private key file for authentication:
C:\Users\Nethmini\Downloads\1.ppk
Browse...
About
Open
Cancel
Public IP
Key Name
Monitoring
52.10.167.246
ESBPII_Linux
disabled
Description
Status Checks
Instance ID
Public DNS
ec2-52-10-167-246.us-west-2.compute.amazonaws.com
Public IP
52.10.167.246
Feedback
English
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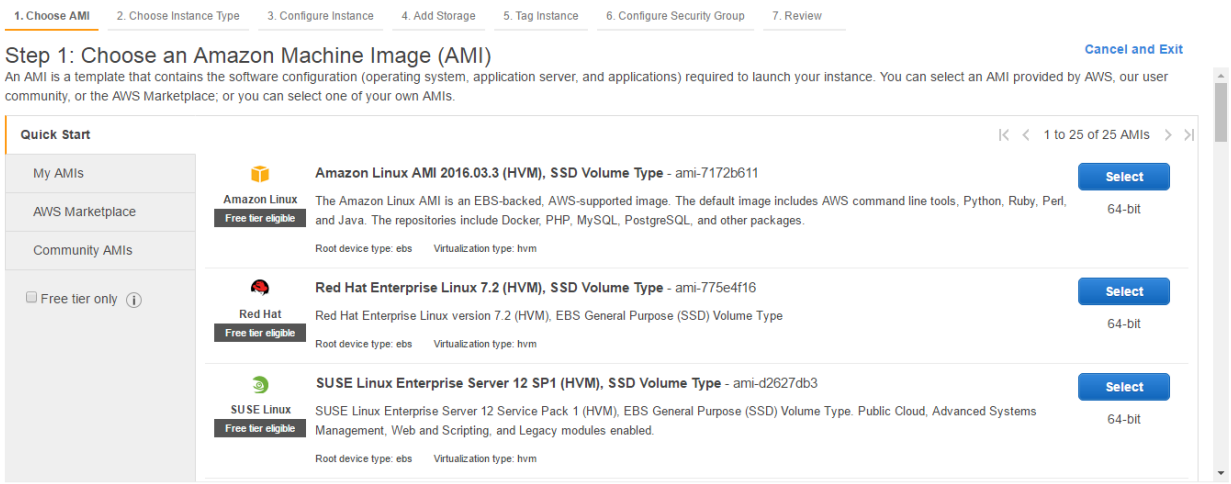
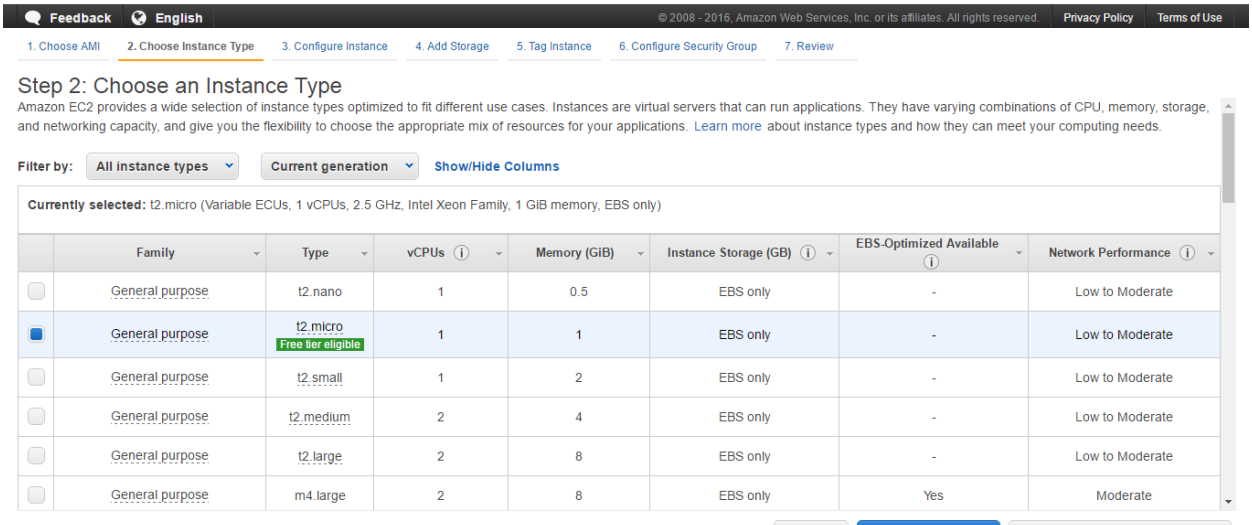
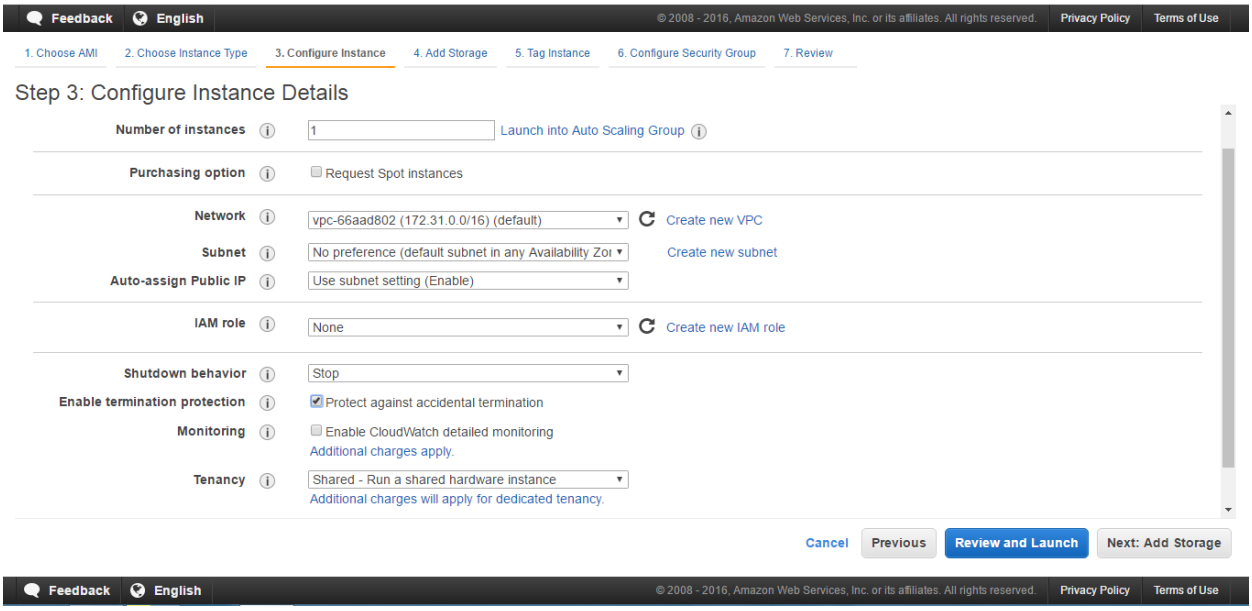
Terms of Use
ec2-52-10-167-246.us-west-2.compute.amazonaws.com - PuTTY
login as: ec2-user
Monitoring
Tags
i-053a9669b46f3dac0
running
login as: ec2-user
Authenticating with public key "imported-openssh-key"
Amazon Linux AMI
https://aws.amazon.com/amazon-linux-ami/2016.03-release-notes/
1 package(s) needed for security, out of 1 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-30-138 ~]$







Feedback
English
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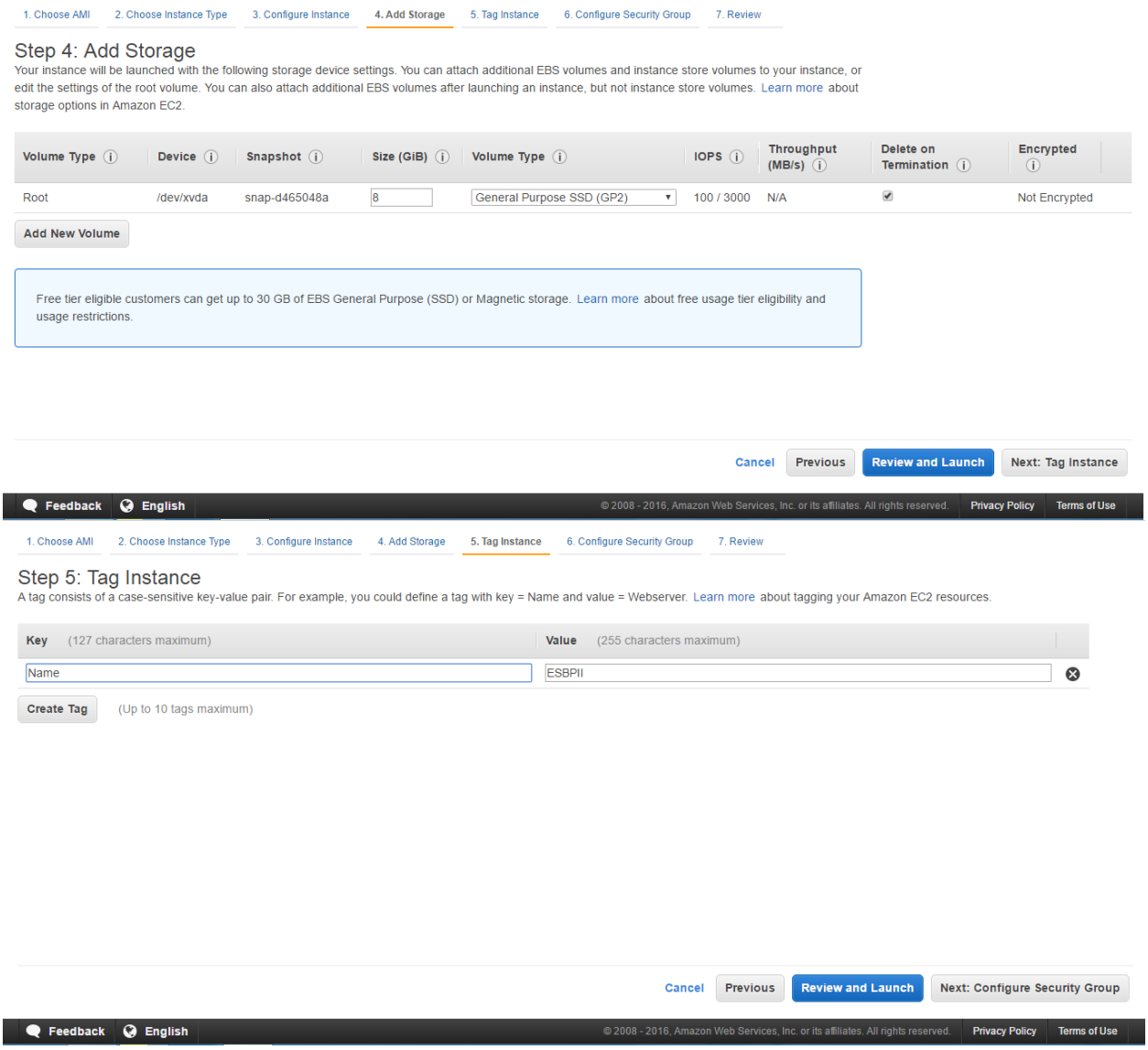
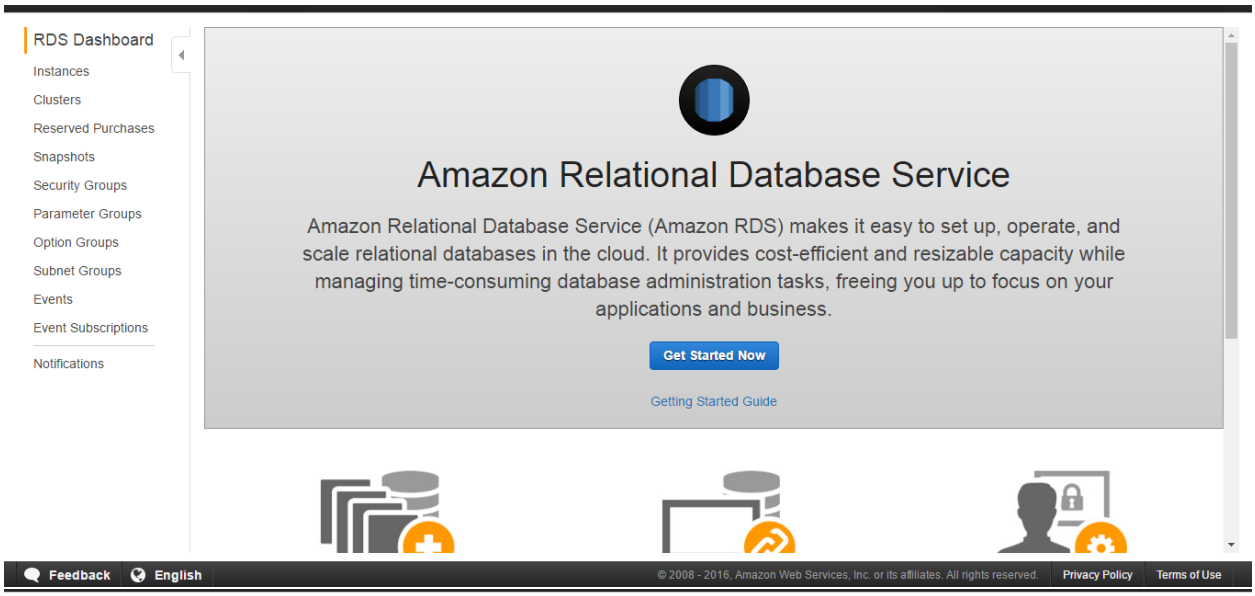


Lab 3

Covered Areas

--steps involved in creating Amazon Relational Database Service (Amazon RDS)


RDS Dashboard
Instances
Clusters
Reserved Purchases
Snapshots
Security Groups
Parameter Groups
Option Groups
Subnet Groups
Events
Event Subscriptions
Notifications
Amazon Relational Database Service
Amazon Relational Database Service (Amazon RDS) makes it easy to set up, operate, and scale relational databases in the cloud. It provides cost-efficient and resizable capacity while managing time-consuming database administration tasks, freeing you up to focus on your applications and business.
Get Started Now
Getting Started Guide
Feedback
English
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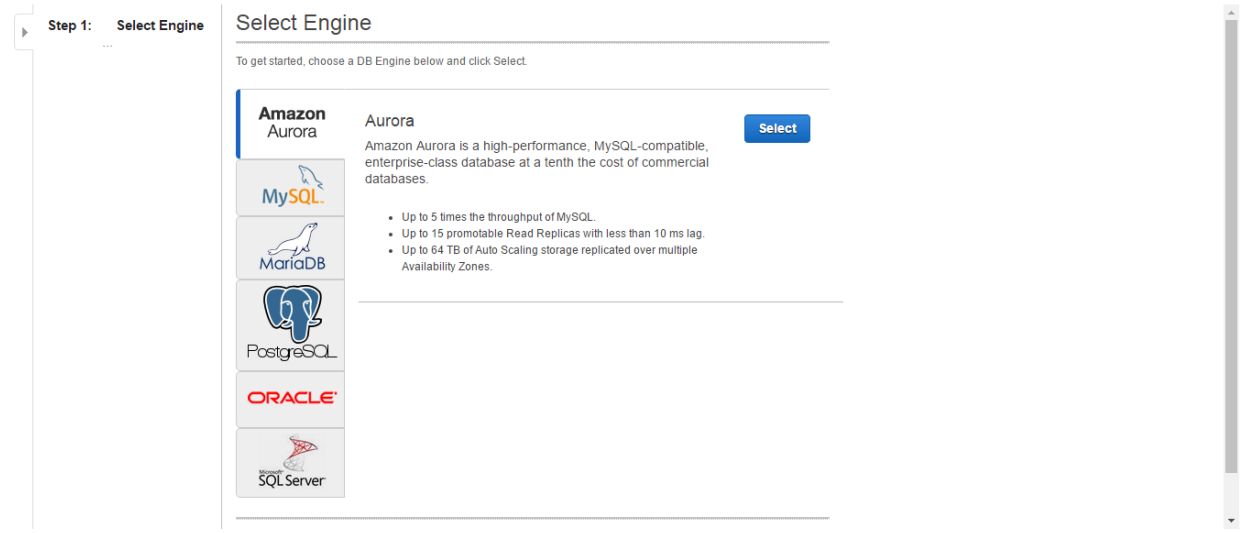
Step 1: Select Engine
Select Engine
To get started, choose a DB Engine below and click Select.
Amazon Aurora
MySQL
MariaDB
PostgreSQL
ORACLE
Microsoft SQL Server
Aurora
Amazon Aurora is a high-performance, MySQL-compatible, enterprise-class database at a tenth the cost of commercial databases.
Up to 5 times the throughput of MySQL.
Up to 15 promotable Read Replicas with less than 10 ms lag.
Up to 64 TB of Auto Scaling storage replicated over multiple Availability Zones.
Select
Feedback
English
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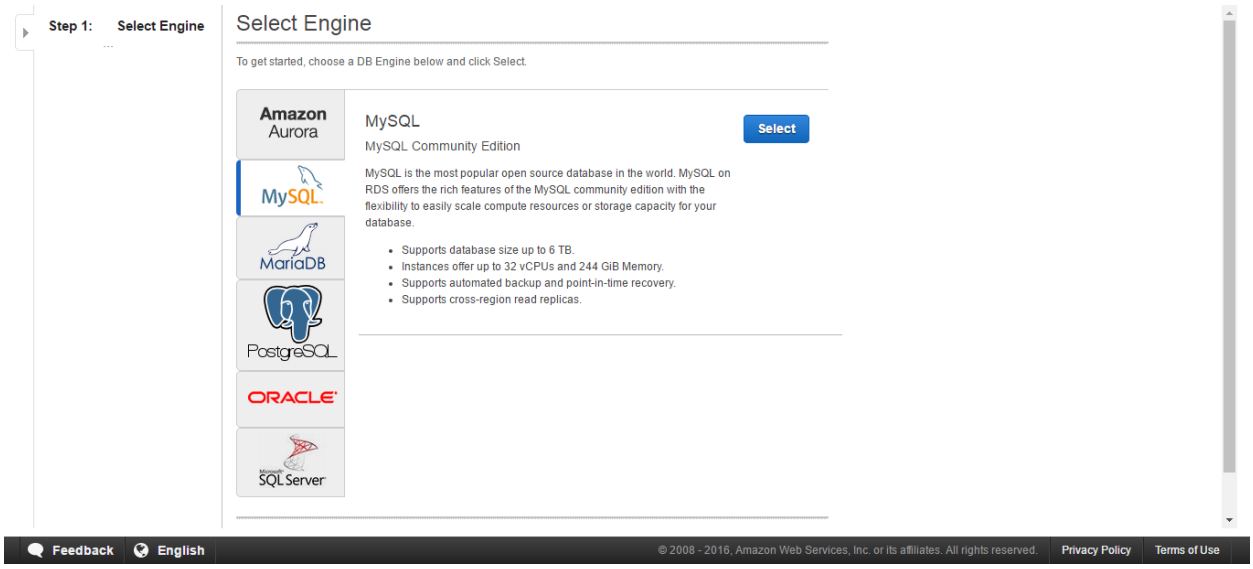
Step 1: Select Engine
Select Engine
To get started, choose a DB Engine below and click Select.
Amazon Aurora
MySQL
MariaDB
PostgreSQL
ORACLE
SQL Server
MySQL
MySQL Community Edition
Select
MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL 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.
Feedback
English
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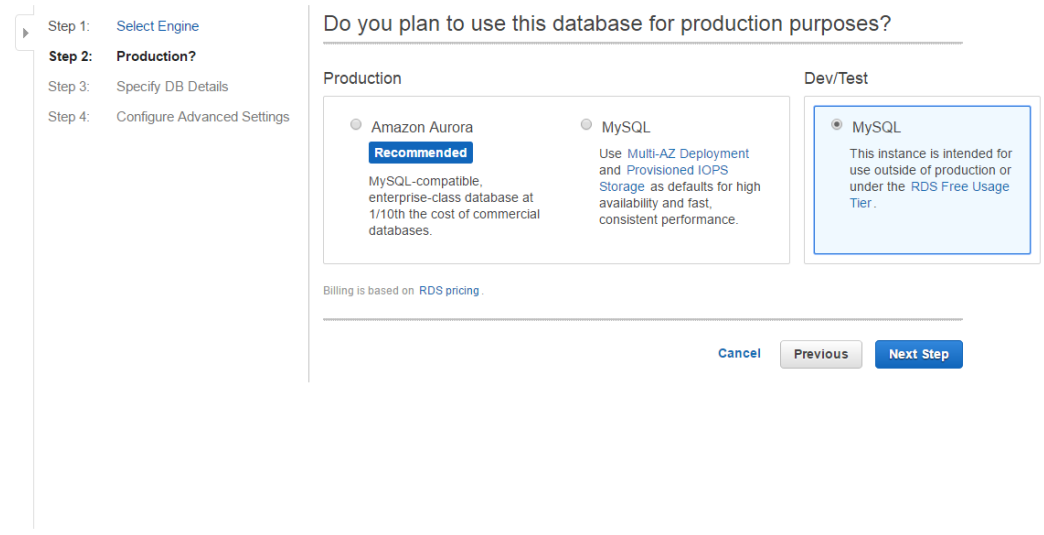
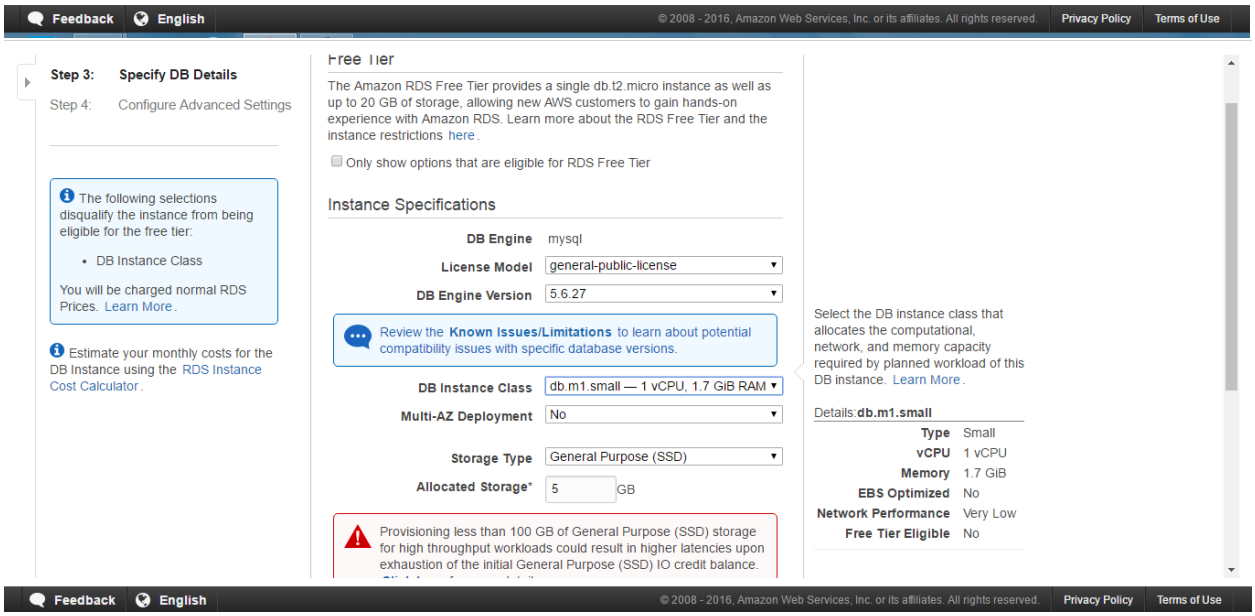

Step 1: Select Engine
Step 2: Production?
Step 3: Specify DB Details
Step 4: Configure Advanced Settings
Do you plan to use this database for production purposes?
Production
Amazon Aurora
Recommended
MySQL-compatible, enterprise-class database at 1/10th the cost of commercial databases.
MySQL
Use Multi-AZ 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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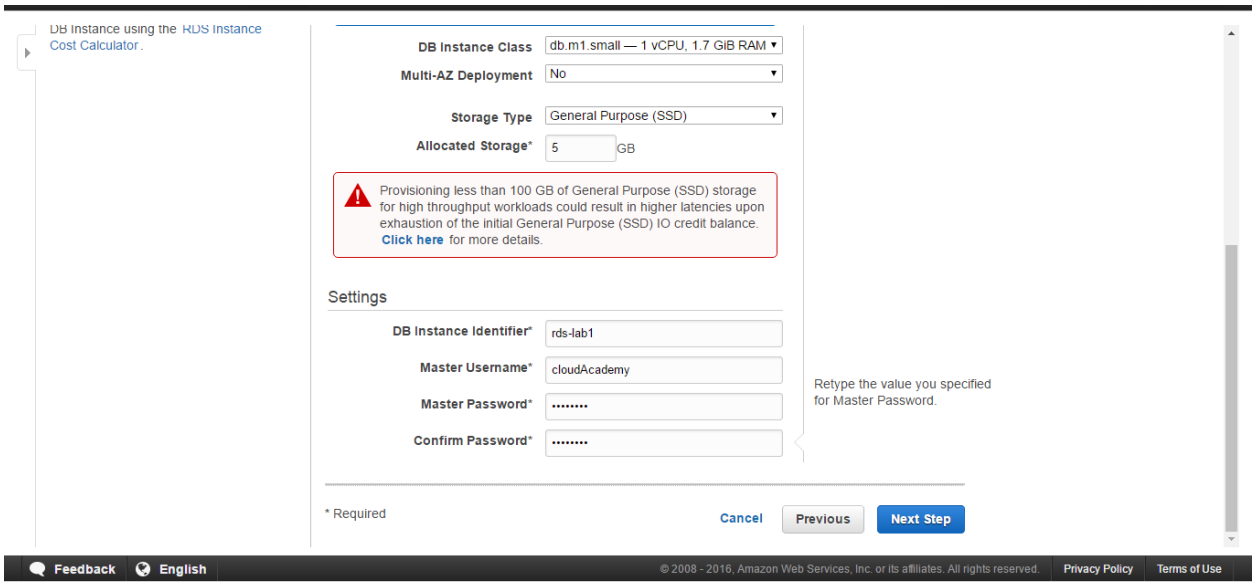
Step 3: Specify DB Details
Step 4: Configure Advanced Settings
The following selections disqualify the instance from being eligible for the free tier:
DB Instance Class
You will be charged normal RDS Prices. Learn More.
Estimate your monthly costs for the DB Instance using the RDS Instance Cost Calculator.
Free Tier
The Amazon RDS Free Tier provides a single db.t2.micro instance as well as up to 20 GB of storage, allowing new AWS customers to gain hands-on experience with Amazon RDS. Learn more about the RDS Free Tier and the instance restrictions here.
Only show options that are eligible for RDS Free Tier
Instance Specifications
DB Engine mysql
License Model general-public-license
DB Engine Version 5.6.27
Review the Known Issues/Limitations to learn about potential compatibility issues with specific database versions.
DB Instance Class db.m1.small — 1 vCPU, 1.7 GiB RAM
Multi-AZ Deployment No
Storage Type General Purpose (SSD)
Allocated Storage* 5 GB
Provisioning less than 100 GB of General Purpose (SSD) storage for high throughput workloads could result in higher latencies upon exhaustion of the initial General Purpose (SSD) IO credit balance.
Select the DB instance class that allocates the computational, network, and memory capacity required by planned workload of this DB instance. Learn More.
Details: db.m1.small
Type Small
vCPU 1 vCPU
Memory 1.7 GiB
EBS Optimized No
Network Performance Very Low
Free Tier Eligible No


DB Instance using the RDS Instance Cost Calculator.
DB Instance Class
db.m1.small — 1 vCPU, 1.7 GiB RAM
Multi-AZ Deployment
No
Storage Type
General Purpose (SSD)
Allocated Storage*
5
GB
Provisioning less than 100 GB of General Purpose (SSD) storage for high throughput workloads could result in higher latencies upon exhaustion of the initial General Purpose (SSD) IO credit balance. Click here for more details.
Settings
DB Instance Identifier*
rds-lab1
Master Username*
cloudAcademy
Master Password*
Confirm Password*
Retype the value you specified for Master Password.
* Required
Cancel
Previous
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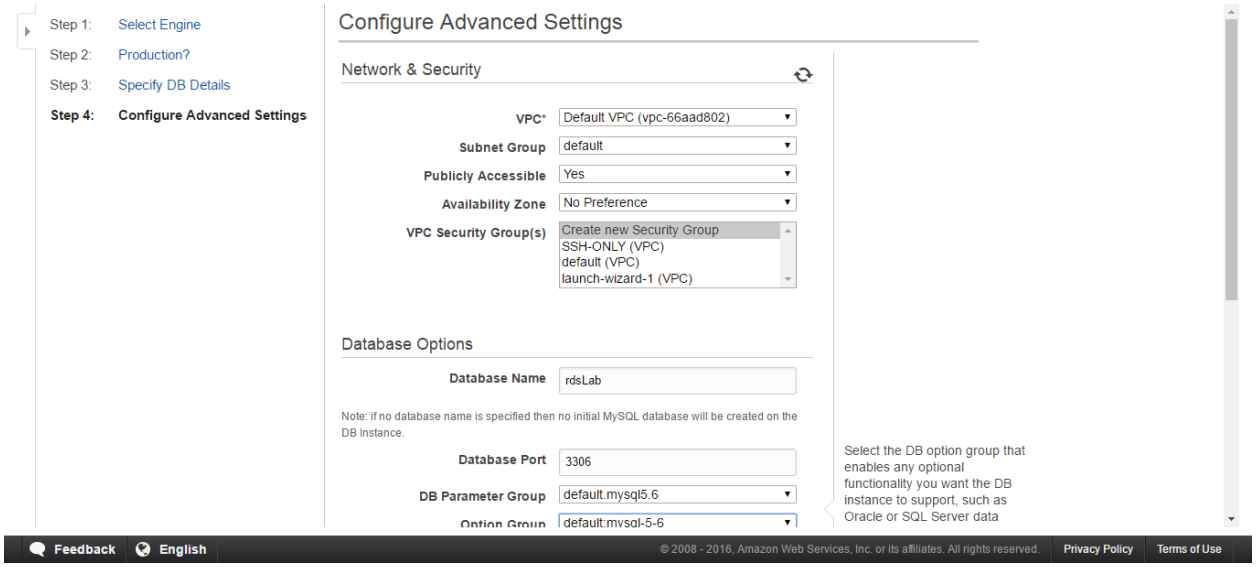
Step 1: Select Engine
Step 2: Production?
Step 3: Specify DB Details
Step 4: Configure Advanced Settings
Configure Advanced Settings
Network & Security
VPC*
Default VPC (vpc-66aad802)
Subnet Group
default
Publicly Accessible
Yes
Availability Zone
No Preference
VPC Security Group(s)
Create new Security Group
SSH-ONLY (VPC)
default (VPC)
launch-wizard-1 (VPC)
Database Options
Database Name
rdsLab
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
Select the DB option group that enables any optional functionality you want the DB instance to support, such as Oracle or SQL Server data
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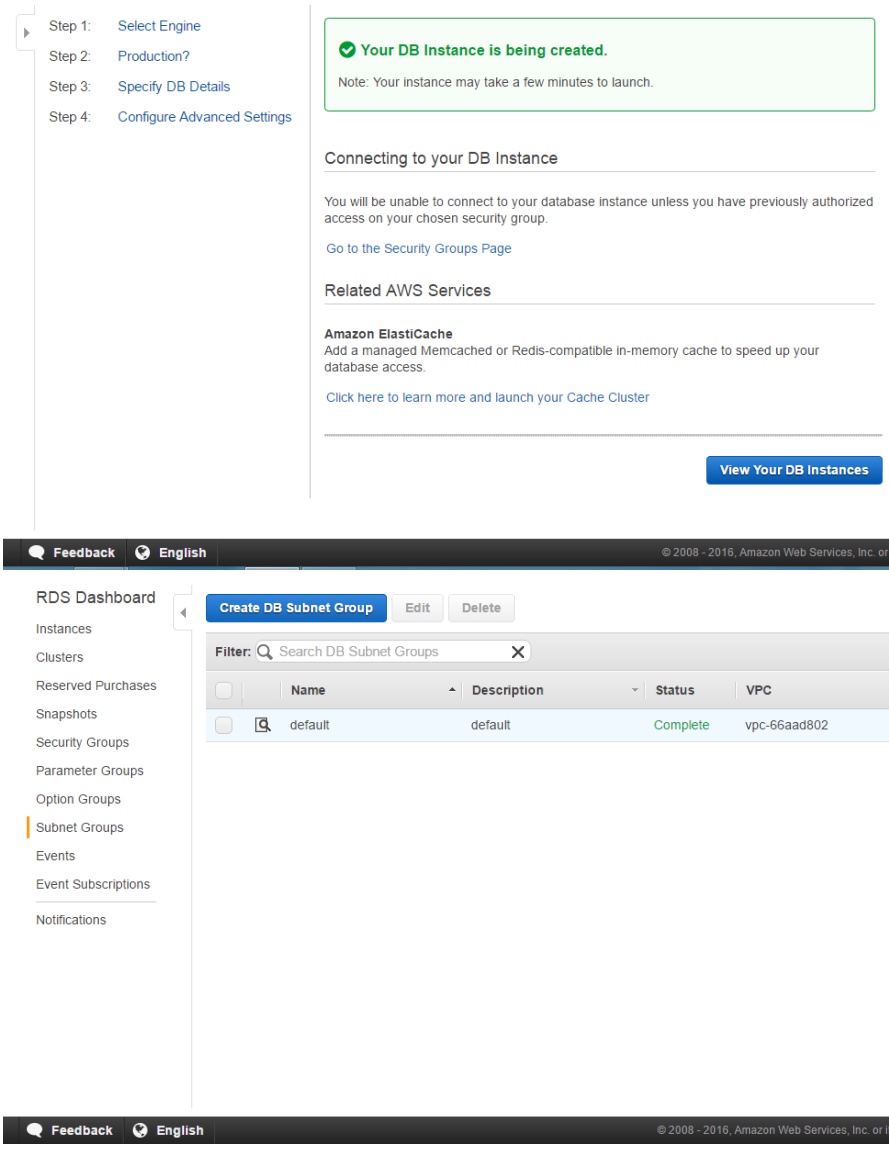
Step 1: Select Engine
Step 2: Production?
Step 3: Specify DB Details
Step 4: Configure Advanced Settings
Your DB Instance is being created.
Note: Your instance may take a few minutes to launch.
Connecting to your DB Instance
You will be unable to connect to your database instance unless you have previously authorized access on your chosen security group.
Go to the Security Groups Page
Related AWS Services
Amazon ElastiCache
Add a managed Memcached or Redis-compatible in-memory cache to speed up your database access.
Click here to learn more and launch your Cache Cluster
View Your DB Instances

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Notifications
Create DB Subnet Group
Edit
Delete
Filter: Search DB Subnet Groups
Viewing 1 of 1 DB Subnet Groups
Name
Description
Status
VPC
default
default
Complete
vpc-66aad802
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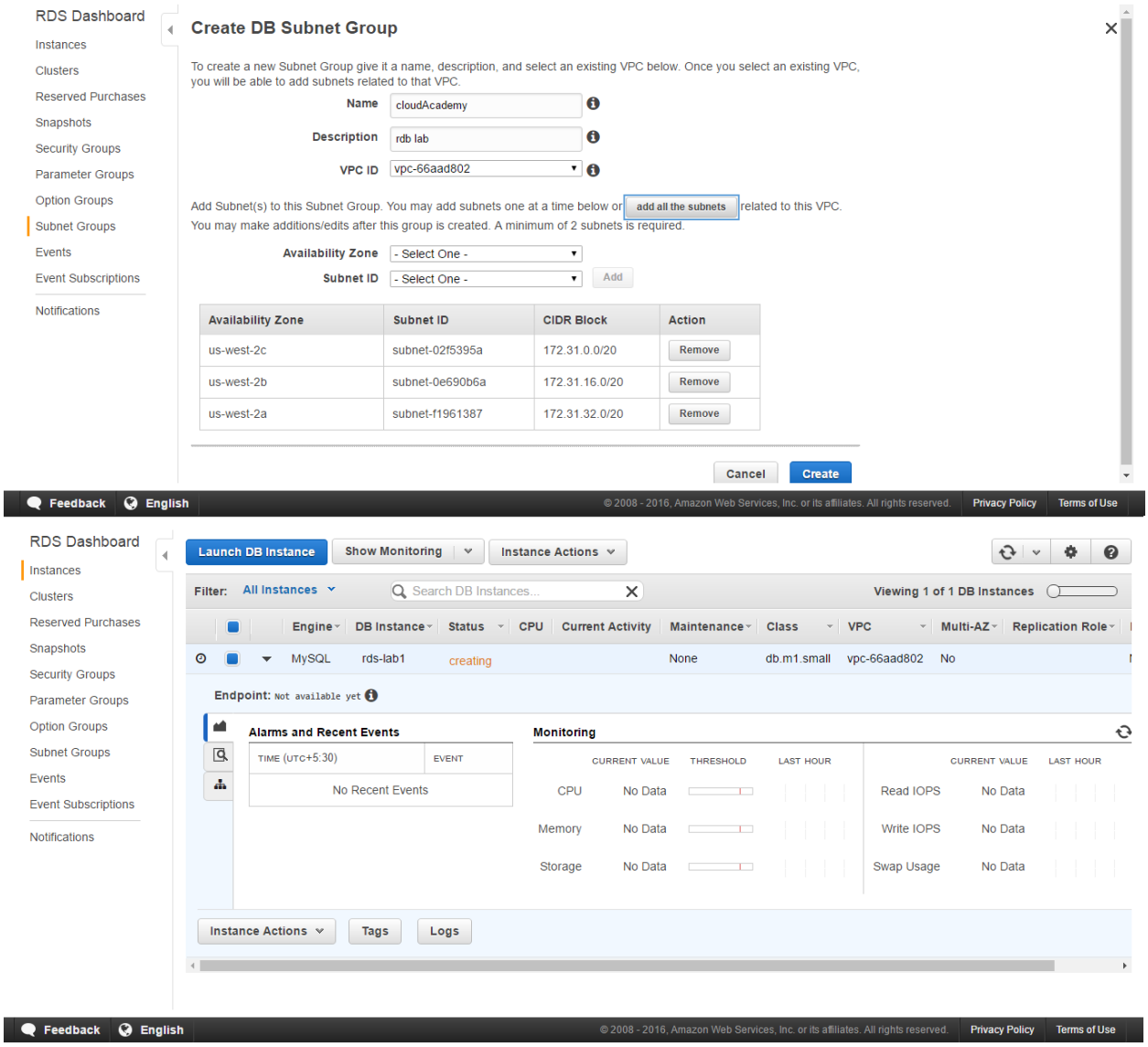
RDS Dashboard
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Subnet Groups
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Event Subscriptions
Notifications
Create DB Subnet Group
To create a new Subnet Group give it a name, description, and select an existing VPC below. Once you select an existing VPC, you will be able to add subnets related to that VPC.
Name
cloudAcademy
Description
rdb lab
VPC ID
vpc-66aad802
Add Subnet(s) to this Subnet Group. You may add subnets one at a time below or add all the subnets related to this VPC.
You may make additions/edits after this group is created. A minimum of 2 subnets is required.
Availability Zone
- Select One -
Subnet ID
- Select One -
Add
Availability Zone
Subnet ID
CIDR Block
Action
us-west-2c
subnet-02f5395a
172.31.0.0/20
Remove
us-west-2b
subnet-0e690b6a
172.31.16.0/20
Remove
us-west-2a
subnet-f1961387
172.31.32.0/20
Remove
Cancel
Create
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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
Replication Role
MySQL
rds-lab1
creating
None
db.m1.small
vpc-66aad802
No
Endpoint: Not available yet
Alarms and Recent Events
TIME (UTC+5:30)
EVENT
No Recent Events
Monitoring
CURRENT VALUE
THRESHOLD
LAST HOUR
CPU
No Data
Memory
No Data
Storage
No Data
CURRENT VALUE
LAST HOUR
Read IOPS
No Data
Write IOPS
No Data
Swap Usage
No Data
Instance Actions
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