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: IT13103064

Practical Session: WD Friday

Practical Number: Lab 1, 2, 3

Date of Submission: 7/30/2016

Date of Evaluation : _____

Evaluators Signature : _____

LAB 1

- Create AWS account
- Create Amazon EC2 Windows Instance
- Launch Amazon EC2 Windows Instance using remote desktop

EC2 Management Console | Getting Started with Amazon

https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2

AWS | Services | Edit | Nethmini Denipitiya | 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
- Network Interfaces

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

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:

Tableau Server (10 users)

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https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

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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

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
64-bit

SUSE Linux — Free tier eligible
SUSE Linux Enterprise Server 12 SP1 (HVM), SSD Volume Type - ami-d2627db3
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.
Root device type: ebs | Virtualization type: hvm
Select
64-bit

Ubuntu — Free tier eligible
Ubuntu Server 14.04 LTS (HVM), SSD Volume Type - ami-9abea4fb
Ubuntu Server 14.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/cloud/services).
Root device type: ebs | Virtualization type: hvm
Select
64-bit

Windows — Free tier eligible
Microsoft Windows Server 2012 R2 Base - ami-8d0acfed
Microsoft Windows 2012 R2 Standard edition with 64-bit architecture. [English]
Root device type: ebs | Virtualization type: hvm
Select
64-bit

Are you launching a database instance? Try Amazon RDS. Hide

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https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

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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 | All generations | 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
	Micro instances	t1.micro Free tier eligible	1	0.613	EBS only	-	Very Low
	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

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https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

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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-66aad802 (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
Monitoring	☐ Enable CloudWatch detailed monitoring

Cancel | Previous | Review and Launch | Next: Add Storage

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EC2 Management Consol | Getting Started with Ama

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

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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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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: launch-wizard-1

Description: launch-wizard-1 created 2016-07-06T09:05:10.477+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

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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

AMI Details | Edit AMI

Microsoft Windows Server 2012 R2 Base - ami-8d0acfed

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 2016-07-06T09:05:10.477+05:30

Type	Protocol	Port Range	Source
RDP	TCP	3389	0.0.0.0/0

Cancel | Previous | Launch

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https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:
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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 Laun
Microsoft Windows Server 201
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
Description
Type
Cancel
Previous
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_Lab01
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
Feedback
English
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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... Successful
Applying tags...
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Launch Status

Your instances are now launching
The following instance launches have been initiated: i-0246f128e7f211cbc 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 Windows instance
- Learn about AWS Free Usage Tier
- Amazon EC2: User Guide
- Amazon EC2: Microsoft Windows Guide
- Amazon EC2: Discussion Forum

While your instances are launching you can also

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https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:search=i-0246f128e7f211cbc;sort=in

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Spot Requests
Reserved Instances
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Dedicated Hosts

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AMIs
Bundle Tasks

ELASTIC BLOCK STORE
Volumes
Snapshots

NETWORK & SECURITY
Security Groups
Elastic IPs
Placement Groups
Key Pairs

Launch Instance | Connect | Actions

search : i-0246f128e7f211cbc | Add filter | 1 to 1 of 1

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Publ
	i-0246f128e7f211cbc	t2.micro	us-west-2a	running	Initializing	None	ec2-52-41-70-32.us-wes...	52.41

Instance: i-0246f128e7f211cbc Public DNS: ec2-52-41-70-32.us-west-2.compute.amazonaws.com

Description | Status Checks | Monitoring | Tags

Instance ID	i-0246f128e7f211cbc	Public DNS	ec2-52-41-70-32.us-west-2.compute.amazonaws.com
Instance state	running	Public IP	52.41.70.32

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Name
Alarm Status
Public DNS
None
ec2-52-41-70-32.us-wes...
52.41
Connect To Your Instance
You can connect to your Windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below:
Download Remote Desktop File
When prompted, connect to your instance using the following details:
Public DNS ec2-52-41-70-32.us-west-2.compute.amazonaws.com
User name Administrator
Password Get Password
If you've joined your instance to a directory, you can use your directory credentials to connect to your instance.
If you need any assistance connecting to your instance, please see our connection documentation.
Close
Description
Instance ID i-0246f128e7f211cbc
Instance state running
Public DNS ec2-52-41-70-32.us-west-2.compute.amazonaws.com
Public IP 52.41.70.32
Feedback
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Key Pairs
Launch Instance
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Actions
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Name
Alarm Status
Public DNS
None
ec2-52-41-70-32.us-wes...
52.41
Connect To Your Instance
You can connect to your Windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below:
Download Remote Desktop File
When prompted, connect to your instance using the following details:
Public DNS ec2-52-41-70-32.us-west-2.compute.amazonaws.com
User name Administrator
Password 3@yebECCiw
If you've joined your instance to a directory, you can use your directory credentials to connect to your instance.
If you need any assistance connecting to your instance, please see our connection documentation.
Close
Description
Instance ID i-0246f128e7f211cbc
Instance state running
Public DNS ec2-52-41-70-32.us-west-2.compute.amazonaws.com
Public IP 52.41.70.32
Feedback
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Security Groups
Elastic IPs
Placement Groups
Key Pairs
Launch Instance
Connect
Actions
1 to 1 of 1
Name
Alarm Status
Public DNS
None
ec2-52-41-70-32.us-wes...
52.41
Connect To Your Instance
You can connect to your Windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below:
When prompted,
Remote Desktop Connection
Connecting to:
ec2-52-41-70-32.us-west-2.compute.amazonaws.com
Cancel
Configuring remote session...
If you've joined your instance to a directory, you can use your directory credentials to connect to your instance.
If you need any assistance connecting to your instance, please see our connection documentation.
Close
Instance: i-02
Description
Instance ID
i-0246f128e7f211cbc
Instance state
running
Public DNS
ec2-52-41-70-32.us-west-2.compute.amazonaws.com
Public IP
52.41.70.32
Feedback
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ec2-52-41-70-32 - ec2-52-41-70-32.us-west-2.compute.amazonaws.com - Remote Desktop Connection
Recycle Bin
EC2 Feedback
EC2 Micros...
Hostname : WIN-REM8DK6P891
Instance ID : i-0246f128e7f211cbc
Public IP Address : 52.41.70.32
Private IP Address : 172.31.46.36
Availability Zone : us-west-2a
Instance Size : t2.micro
Architecture : AMD64
Windows Server 2012 R2
9:57 AM
7/6/2016

LAB 2

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

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
General purpose	m4.large	2	8	EBS only	Yes	Moderate

EC2 Management Consol | New Tab

https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

AWS | Services | Edit | Nethmini Denipitiya | 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 3: Configure Instance Details

Number of instances	1 — Launch into Auto Scaling Group
Purchasing option	Request Spot instances
Network	vpc-66aad802 (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)
IAM role	None — Create new IAM role
Shutdown behavior	Stop
Enable termination protection	Protect against accidental termination
Monitoring	Enable CloudWatch detailed monitoring Additional charges apply.
Tenancy	Shared - Run a shared hardware instance Additional charges will apply for dedicated tenancy.

Cancel | Previous | Review and Launch | Next: Add Storage

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1. Choose AMI | 2. Choose Instance Type | 3. Configure Instance | 4. Add Storage | 5. Tag Instance | 6. Configure Security Group | 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/xvda	snap-d465048a	8	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

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https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

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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	ESBPII

Create Tag (Up to 10 tags maximum)

Cancel | Previous | Review and Launch | Next: Configure Security Group

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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

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8:41 PM 7/30/2016

EC2 Management Consol
New Tab
https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:
AWS
Services
Edit
Nethmini Denipitiya
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 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
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EC2 Management Consol
New Tab
https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:
AWS
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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
Instance Type | ECUs | Network Performance
t2.micro | Variable | Low to Moderate
Security Groups
Edit security groups
Security group name SSH-ONLY
Description Allowed SSH
Type
SSH
Instance Details
Edit instance details
Storage
Edit storage
Cancel
Previous
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
Feedback
English
Privacy Policy
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ESBPII_Linux.pem
Show all downloads...
8:42 PM
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EC2 Management Consol New Tab Nethmini

https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

AWS Services Edit Nethmini Denipitiya Oregon Support

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...

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ESBPII_Linux.pem Show all downloads...

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EC2 Management Consol New Tab Nethmini

https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

AWS Services Edit Nethmini Denipitiya Oregon Support

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

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ESBPII_Linux.pem Show all downloads...

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EC2 Management Console
New Tab
https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:
AWS
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Reports
Limits
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Spot Requests
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Security Groups
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
ESBPII
i-053a9669b46f3dac0
t2.micro
us-west-2b
running
Initializing
None
ec2-52-10-167-246.us-...
Instance: i-053a9669b46f3dac0 (ESBPII)
Public DNS: ec2-52-10-167-246.us-west-2.compute.amazonaws.com
Description
Status Checks
Monitoring
Tags
Instance ID
i-053a9669b46f3dac0
Instance state
running
Public DNS
ec2-52-10-167-246.us-west-2.compute.amazonaws.com
Public IP
52.10.167.246
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Show all downloads...
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EC2 Management Console
https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:
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Actions
1 to 1 of 1
Status Checks
Alarm Status
Public IP
Key Name
Monitoring
2/2 checks...
None
52.10.167.246
ESBPII_Linux
disabled
PuTTY Key Generator
File
Key
Conversions
Help
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
Description
Status Checks
Instance ID
Instance state
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 Management Console
https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:
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Launch Instance
Filter by tags and attributes
Status Checks
Alarm
2/2 checks...
None
Key Name
Monitoring
1 to 1 of 1
ESBPII_Linux
disabled
Load private key:
Nethmini ▸ Downloads ▸
Search Downloads
Organize
New folder
.eclipse
.gfclient
.m2
.nbi
.netbeans
.netbeans-derb
.netbeans-regis
.oracle_jre_usag
.ssh
.VirtualBox
Contacts
Desktop
Downloads
TFS-v5
TFS-v5
4t Year - IT
4th Year 1st - IT - Repeat
7 - CDAP Assessment Instruments-Mid Review report
12514012_1669793423309221_4987328348564263119_o
13679916_1094015510676987_7602317507991641880_o
13708379_1094015787343626_3399700566574648214_o
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
ec2-52-41-70-32.us-west-2.compute.amazonaws.com
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
Instance: i-053a9669b4
Description
Status C
SSH-1 (RSA)
SSH-2 RSA
SSH-2 DSA
Number of bits in a generated key:
2048
Instance ID
Instance state
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 Management Console
https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:
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Alarm Status
2/2 checks...
None
Public IP
Key Name
Monitoring
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52.10.167.246
ESBPII_Linux
disabled
PuTTY Key Generator
File
Key
Conversions
Help
Public key for pasting into OpenSSH authorized_keys file:
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQCjgTFwFA76ZHDldHeE
+E4RsTHjuQP5hhFiwp3CmP4FzSGIhjDS3DlcVGJXKKL5V4bLeQZwxDNHuA7t4LofSX
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
Instance: i-053a9669b46f3dac
Description
Status Checks
Instance ID
Instance state
The public hostname of the instance, which
resolves to the public IP address or Elastic IP
address of the instance.
Public DNS
ec2-52-10-167-246.us-west-2.compute.amazonaws.com
Public IP
52.10.167.246
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https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:
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Placement Groups
Key Pairs
Launch Instance
Filter by tags and attribu
Status Checks
Alarm
2/2 checks...
None
1 to 1 of 1
Key Name
Monitoring
ESBPII_Linux
disabled
Load private key:
Nethmini ▸ Downloads
Search Downloads
Organize
New folder
Favorites
Desktop
Downloads
Recent places
SkyDrive
Desktop
Libraries
Documents
Music
Pictures
Videos
Homegroup
Nethmini
TFS-v5
Select a file to preview.
File name: NEWKEY
PuTTY Private Key Files (*.ppk)
Open
Cancel
Instance: i-053a9669b4
Description
SSH-1 (RSA)
SSH-2 RSA
SSH-2 DSA
Number of bits in a generated key:
2048
Instance ID
Instance state
running
Public DNS
ec2-52-10-167-246.us-west-2.compute.amazonaws.com
Public IP
52.10.167.246
Feedback
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EC2 Management Consol
https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:
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Key Pairs
Launch Instance
Connect
Actions
Filter by tags and attributes or sea
Status Checks
Alarm Status
2/2 checks...
None
1 to 1 of 1
Public IP
Key Name
Monitoring
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ESBPII_Linux
disabled
PuTTY Configuration
Category:
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
Instance: i-053a9669b46f3dac0
Description
Status Checks
Instance ID
Instance state
running
Public DNS
ec2-52-10-167-246.us-west-2.compute.amazonaws.com
Public IP
52.10.167.246
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EC2 Management Console
https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:
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Launch Instance
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Actions
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Status Checks
Alarm Status
Public IP
Key Name
Monitoring
2/2 checks...
None
52.10.167.246
ESBPII_Linux
disabled
PuTTY Configuration
Category:
Bell
Features
Window
Appearance
Behaviour
Translation
Selection
Colours
Connection
Data
Proxy
Telnet
Rlogin
SSH
Kex
Cipher
Auth
TTY
X11
Tunnels
Bugs
More bugs
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
Instance: i-053a9669b46f3dac0
Description
Status Checks
Instance ID
Instance state
running
Public DNS
ec2-52-10-167-246.us-west-2.compute.amazonaws.com
Public IP
52.10.167.246
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EC2 Management Console
https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:
AWS
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Oregon
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ec2-52-10-167-246.us-west-2.compute.amazonaws.com - PuTTY
login as: ec2-user
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Key Name
Monitoring
52.10.167.246
ESBPII_Linux
disabled
Description
Status Checks
Monitoring
Tags
Instance ID
i-053a9669b46f3dac0
Instance state
running
Public DNS
ec2-52-10-167-246.us-west-2.compute.amazonaws.com
Public IP
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LAB 3

- creating Amazon Relational Database Service (Amazon RDS)

RDS - AWS Console

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#gettingStarted:

AWS | Services | Edit | Nethmini Denipitiya | Oregon | Support

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

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RDS - AWS Console

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:ct=gettingStarted:

AWS | Services | Edit | Nethmini Denipitiya | Oregon | Support

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

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RDS - AWS Console

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:ct=gettingStarted:

AWS | Services | Edit | Nethmini Denipitiya | Oregon | Support

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.

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RDS - AWS Console

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:ct=gettingStarted:

AWS | Services | Edit | Nethmini Denipitiya | Oregon | Support

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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RDS - AWS Console

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:ct=gettingStarted:

AWS | Services | Edit | Nethmini Denipitiya | Oregon | Support

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

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RDS - AWS Console

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:ct=gettingStarted:

AWS | Services | Edit | Nethmini Denipitiya | Oregon | Support

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 | Next Step

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RDS - AWS Console

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:ct=gettingStarted:

AWS | Services | Edit | Nethmini Denipitiya | Oregon | Support

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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RDS - AWS Console

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:ct=gettingStarted:

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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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RDS - AWS Console

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#db-subnet-groups:

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RDS Dashboard

- Instances
- Clusters
- Reserved Purchases
- Snapshots
- Security Groups
- Parameter Groups
- Option Groups
- Subnet Groups
- Events
- Event Subscriptions
- 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 - AWS Console

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#db-subnet-groups:

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RDS Dashboard

- Instances
- Clusters
- Reserved Purchases
- Snapshots
- Security Groups
- Parameter Groups
- Option Groups
- Subnet Groups
- Events
- 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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RDS - AWS Console
https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#dbinstances:id=rds-lab1;sf=all
AWS
Services
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Instances
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Reserved Purchases
Snapshots
Security Groups
Parameter Groups
Option Groups
Subnet Groups
Events
Event Subscriptions
Notifications
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
MySQL
rds-lab1
available
6.44%
0 Connections
None
db.m1.small
vpc-66aad802
No
Endpoint: rds-lab1.cy3bc8nwkyni.us-west-2.rds.amazonaws.com:3306 (authorized)
Alarms and Recent Events
TIME (UTC+5:30)
EVENT
Jul 30 9:50 PM
Finished DB Instance backup
Jul 30 9:47 PM
Backing up DB instance
Jul 30 9:46 PM
DB instance created
Jul 30 9:45 PM
DB instance restarted
Monitoring
CURRENT VALUE
THRESHOLD
LAST HOUR
CPU
4.7%
Memory
1,170 MB
Storage
4,540 MB
Read IOPS
0/sec
Write IOPS
0.033/sec
Swap Usage
0 MB
Instance Actions
Tags
Logs
Feedback
English
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MySQL Workbench
File
Edit
View
Database
Tools
Scripting
Help
MySQL Connections
Local instance wampmysqld
root
n/a
localhost:3306
Setup New Connection
Connection Name:
RDSConnection
Type a name for the connection
Connection Method:
Standard (TCP/IP)
Method to use to connect to the RDBMS
Parameters
SSL
Advanced
Hostname:
Port:
3306
Name or IP address of the server host. - TCP/IP port.
Username:
cloudacademy
Name of the user to connect with.
Password:
Store in Vault ...
Clear
The user's password. Will be requested later if it's not set.
Default Schema:
The schema to use as default schema. Leave blank to select it later.
Configure Server Management...
Test Connection
Cancel
OK
Models
sakila_full
Shortcuts
MySQL Doc Library
MySQL Utilities
Database Migration
MySQL Bug Reporter
Workbench Blogs
Planet MySQL
Workbench Forum
Scripting Shell
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MySQL Workbench
File Edit View Database Tools Scripting Help
MySQL Connections
Local instance MySQL56
root
n/a
localhost:3306
RDSConnection
cloudacademy
n/a
127.0.0.1:3306
Models
sakila_full
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Shortcuts
MySQL Doc Library
MySQL Utilities
Database Migration
MySQL Bug Reporter
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