

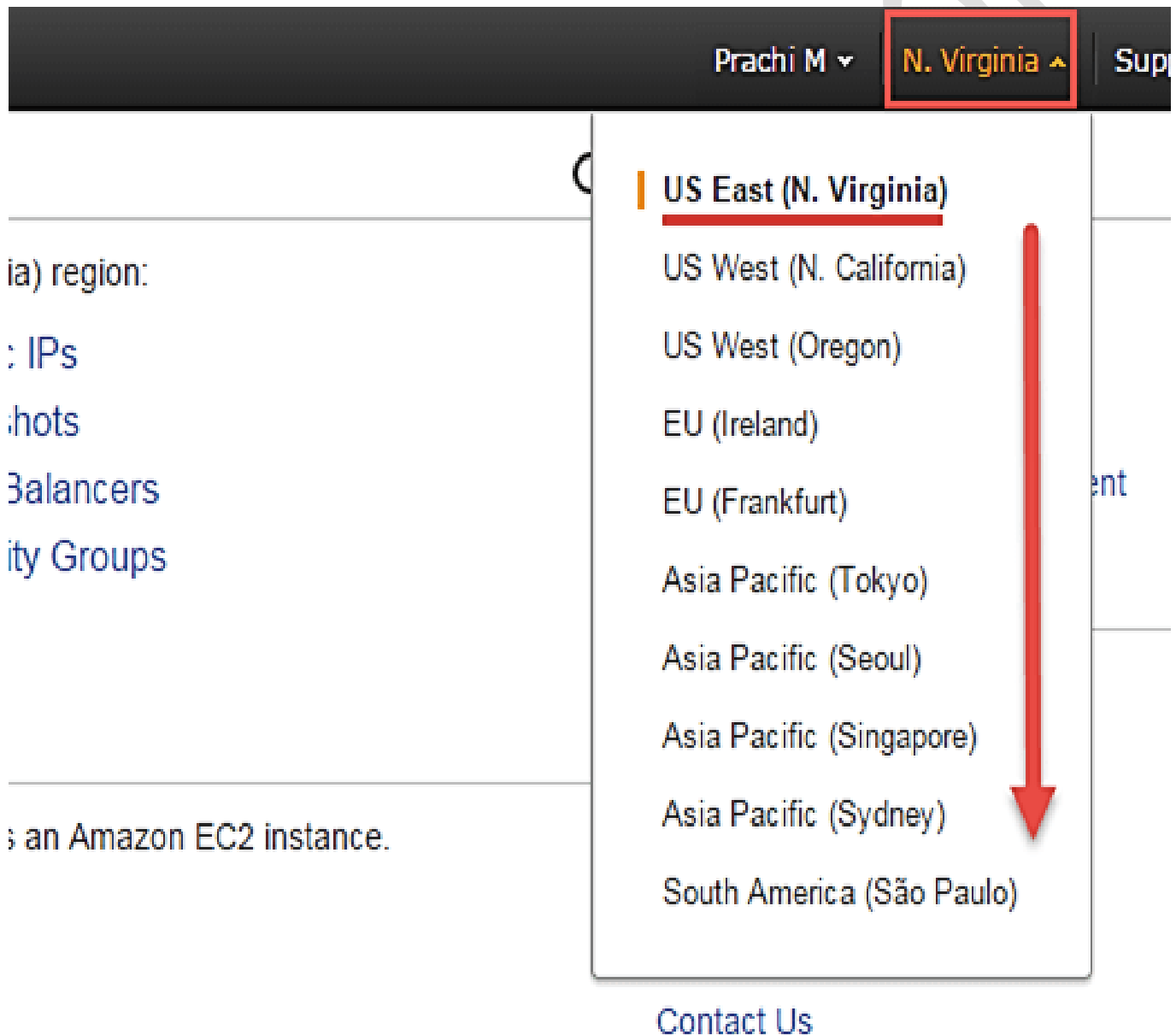
How to Create EC2 Instance in AWS



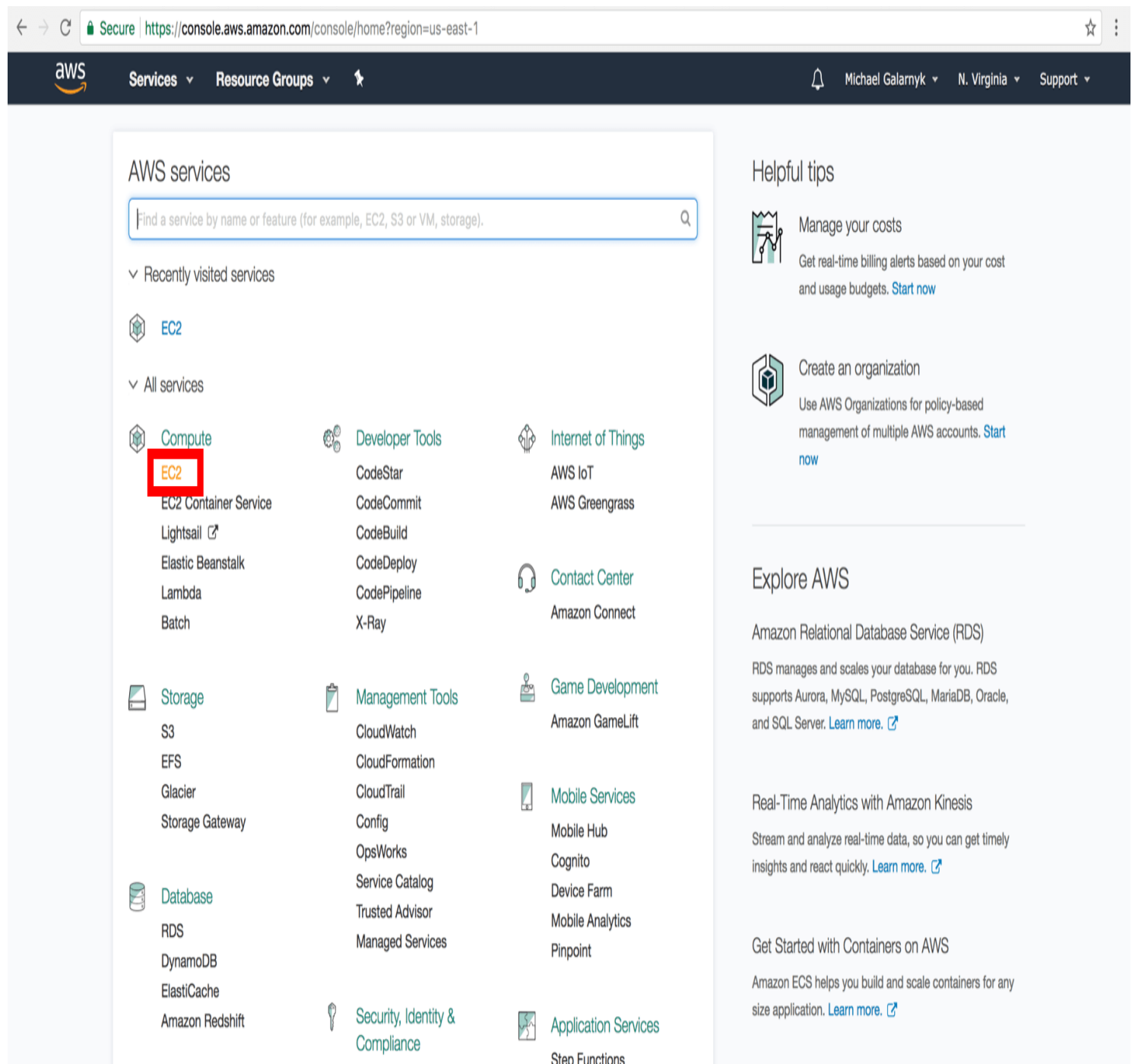
1. On the Amazon Web Services site (<http://aws.amazon.com>), click on "Sign In to the Console". Sign in if you have account. If you don't, you will need to make one.

On the top right corner of the EC2 dashboard, choose the AWS Region in which you want to provision the EC2 server.

Here we are selecting N. Virginia. AWS provides 10 Regions all over the globe.





2. On the EC2 Dashboard, click on EC2.



The screenshot shows the AWS Management Console interface. At the top, the navigation bar includes the AWS logo, 'Services', 'Resource Groups', and user information. The main content area is titled 'AWS services' and features a search bar. Below the search bar, there are sections for 'Recently visited services' and 'All services'. In the 'All services' section, the 'Compute' category is expanded, and the 'EC2' service is highlighted with a red box. Other categories visible include 'Developer Tools', 'Internet of Things', 'Storage', 'Management Tools', 'Game Development', 'Mobile Services', 'Database', 'Security, Identity & Compliance', and 'Application Services'. On the right side of the console, there are 'Helpful tips' and 'Explore AWS' sections with links to various AWS services and documentation.

Helpful tips

-  **Manage your costs**
Get real-time billing alerts based on your cost and usage budgets. [Start now](#)
-  **Create an organization**
Use AWS Organizations for policy-based management of multiple AWS accounts. [Start now](#)

Explore AWS

Amazon Relational Database Service (RDS)
RDS manages and scales your database for you. RDS supports Aurora, MySQL, PostgreSQL, MariaDB, Oracle, and SQL Server. [Learn more.](#)

Real-Time Analytics with Amazon Kinesis
Stream and analyze real-time data, so you can get timely insights and react quickly. [Learn more.](#)

Get Started with Containers on AWS
Amazon ECS helps you build and scale containers for any size application. [Learn more.](#)

Create an Instance

3. On the Amazon EC2 console, click on Launch Instance.

The screenshot shows the Amazon EC2 console interface. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and user information (Michael Galarnyk, N. Virginia, Support). The left sidebar lists various EC2-related services, with 'Instances' currently selected. The main content area displays a message: 'You do not have any running instances in this region. First time using EC2? Check out the [Getting Started Guide](#). Click the Launch Instance button to start your own server.' A blue 'Launch Instance' button is prominently displayed in the center. Above this button, a search bar is visible with the text 'Filter by tags and attributes or search by keyword'. The bottom of the console features a footer with 'Feedback', 'English (US)', and copyright information (© 2008 - 2017, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use).

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

LOAD BALANCING

Load Balancers

Launch Instance

Connect

Actions

Filter by tags and attributes or search by keyword

You do not have any running instances in this region.

First time using EC2? Check out the [Getting Started Guide](#).

Click the Launch Instance button to start your own server.

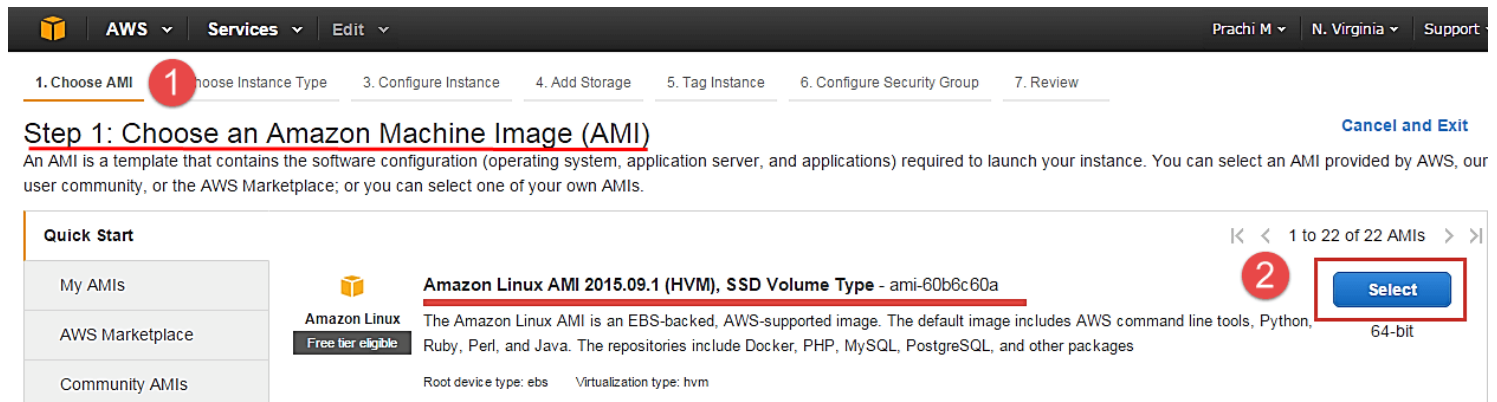
Launch Instance

Select an instance above

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4. Click on the "Select" button in the row with Microsoft Windows Server 2016 Base. Please note that this will create a Windows based instance instead of a typical Linux based instance. This effects how you will connect to the instance.



Step 1: Choose an Amazon Machine Image (AMI)

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

Quick Start

- My AMIs
- AWS Marketplace
- Community AMIs

Amazon Linux AMI 2015.09.1 (HVM), SSD Volume Type - ami-60b6c60a

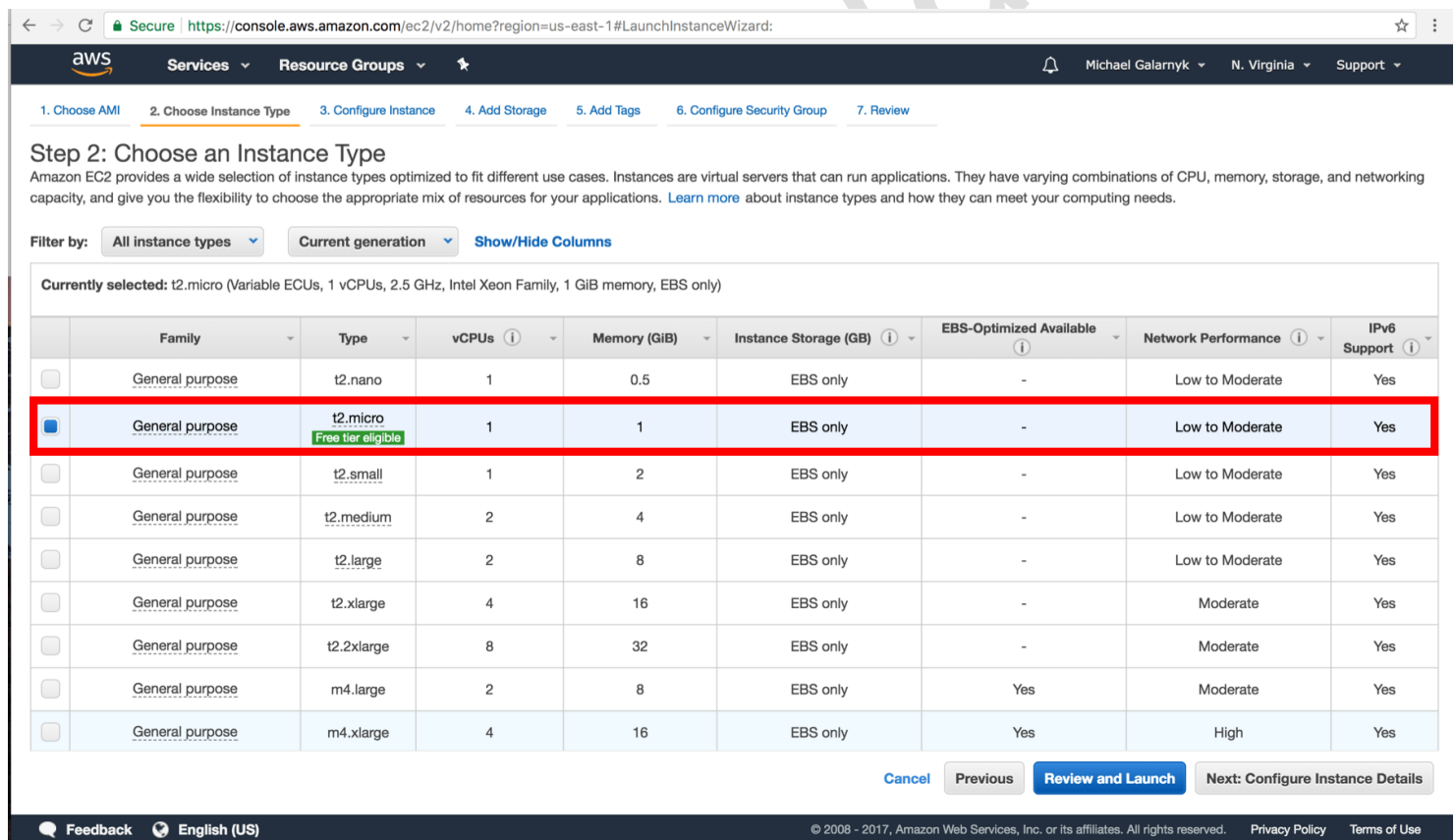
The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages

Root device type: ebs Virtualization type: hvm

1 to 22 of 22 AMIs

Select

5. Make sure t2 micro (free instance type) is selected.



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	IPv6 Support
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	m4.large	2	8	EBS only	Yes	Moderate	Yes
<input type="checkbox"/>	General purpose	m4.xlarge	4	16	EBS only	Yes	High	Yes

Cancel Previous **Review and Launch** Next: Configure Instance Details

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and click on "Review and Launch"

Secure https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

aws Services Resource Groups

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 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	IPv6 Support
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	General purpose	m4.large	2	8	EBS only	Yes	Moderate	Yes
<input type="checkbox"/>	General purpose	m4.xlarge	4	16	EBS only	Yes	High	Yes

Cancel Previous **Review and Launch** Next: Configure Instance Details

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6. Click on Launch.

AWS Services Edit Prachi M N. Virginia 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.

AMI Details [Edit AMI](#)

Amazon Linux AMI 2015.09.1 (HVM), SSD Volume Type - ami-60b6c60a

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

Security Groups [Edit security groups](#)

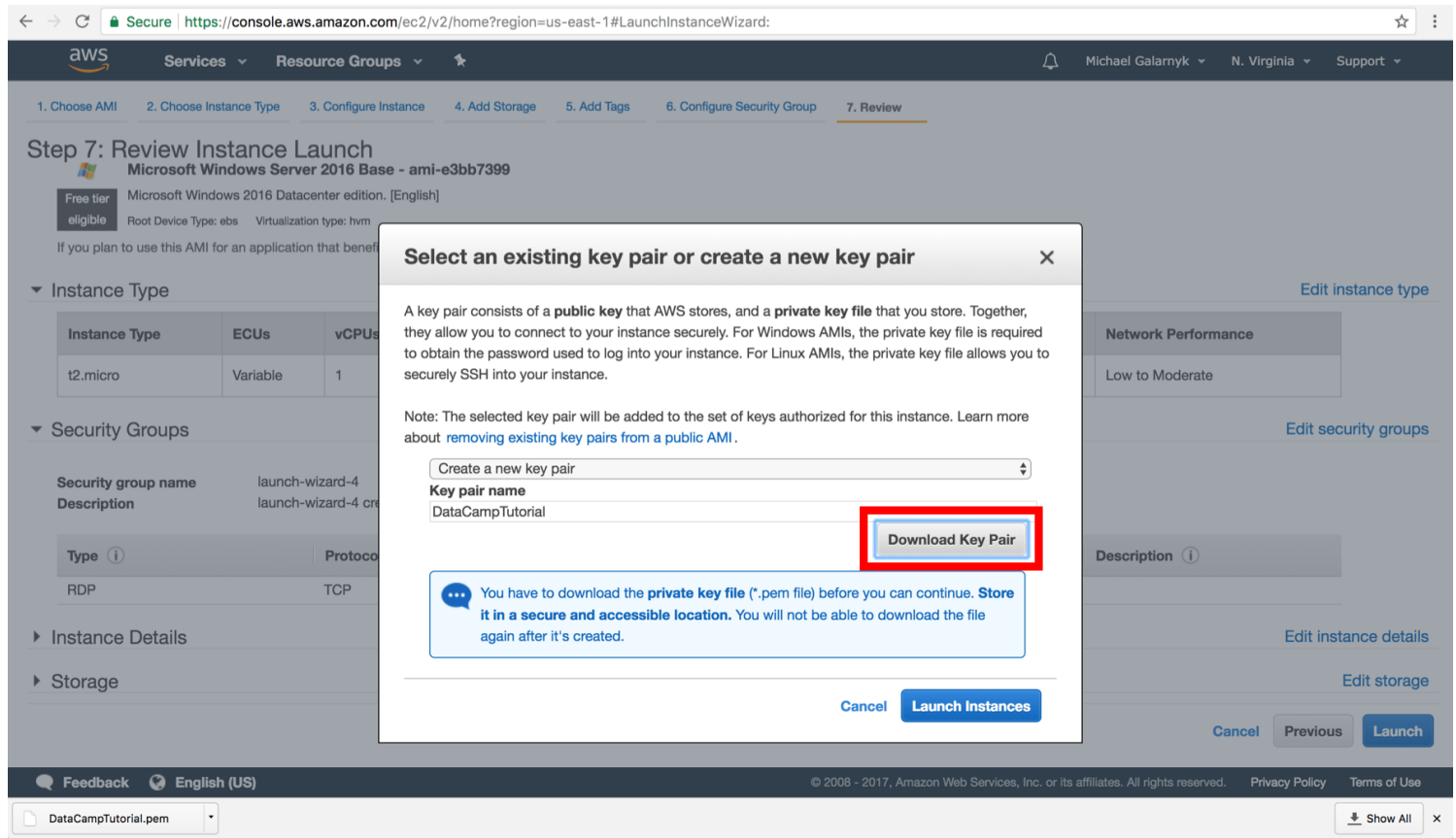
Security group name Web Server SG

Description launch-wizard-7 created 2016-02-03T19:49:12.288+05:30

Type	Protocol	Port Range	Source

Cancel Previous **Launch**

7. Select "Create a new key pair". In the box below ("Key pair name"), fill in a key pair name. I named my key DataCampTutorial, but you can name it whatever you like. Click on "Download Key Pair". This will download the key. Keep it somewhere safe.



Next, click on "Launch Instances"

8. The instance is now launched. Go back to the Amazon EC2 console. I would recommend that you click on what is enclosed in the red rectangle as it will bring you back to the console.

Secure | <https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard>

aws Services Resource Groups

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Launch Status

✓ **Your instances are now launching**

The following instance launches have been initiated: **i-0029f691bf6a7c52f** [View launch log](#)

ℹ **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

- [Create status check alarms](#) to be notified when these instances fail status checks. (Additional charges may apply)
- [Create and attach additional EBS volumes](#) (Additional charges may apply)

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DataCampTutorial.pem Show All

9. Wait till you see that "Instance State" is running before you proceed to the next step. This can take a few minutes.

Secure | <https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:search=i-0029f691bf6a7c52f;sort=instanceId>

aws Services Resource Groups

Michael Galarnyk N. Virginia Support

EC2 Dashboard

Launch Instance Connect Actions

search : i-0029f691bf6a7c52f Add filter

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP
	i-0029f691bf6a7c52f	t2.micro	us-east-1a	running	✓ 2/2 checks ...	None	ec2-52-91-34-110.com...	52.91.34.110

Instance: i-0029f691bf6a7c52f Public DNS: ec2-52-91-34-110.compute-1.amazonaws.com

Description Status Checks Monitoring Tags

Instance ID i-0029f691bf6a7c52f Public DNS (IPv4) ec2-52-91-34-110.compute-1.amazonaws.com

Instance state running IPv4 Public IP 52.91.34.110

Instance type t2.micro IPv6 IPs -

Private DNS ip-172-31-60-28.ec2.internal

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Verify Security Group - Click on default as shown below

The screenshot displays the AWS Management Console interface. The left-hand navigation pane lists various services, with 'INSTANCES' expanded and 'Instances' selected. The main content area shows a list of EC2 instances. The instance 'Docker' (ID: i-0565409505d37c6a8) is in a 'running' state. Below the instance list, the 'Description' tab is active, showing details for the instance. The 'Security groups' field is highlighted with a red box, showing 'default' as the assigned security group. The 'Availability zone' is 'us-east-1d'. The 'Public DNS' is 'ec2-54-209-6-212.compute-1.amazonaws.com'. The 'VPC ID' is 'vpc-978629ec'.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm S
Docker	i-0565409505d37c6a8	t2.micro	us-east-1d	running	2/2 checks ...	None

Instance: i-0565409505d37c6a8 (Docker) Public DNS: ec2-54-209-6-212.compute-1.amazonaws.com

Description | Status Checks | Monitoring | Tags

Instance ID	i-0565409505d37c6a8	Public DNS (IPv4)	ec2-54-209-6-212.compute-1.amazonaws.com
Instance state	running	IPv4 Public IP	54.209.6.212
Instance type	t2.micro	IPv6 IPs	-
Elastic IPs		Private DNS	ip-172-31-81-133.ec2.internal
Availability zone	us-east-1d	Private IPs	172.31.81.133
Security groups	default view inbound rules. view outbound rules	Secondary private IPs	
Scheduled events	No scheduled events	VPC ID	vpc-978629ec

Click Inbound Tab and Edit button

The screenshot shows the AWS Management Console interface for the EC2 Dashboard. The left sidebar contains navigation links for EC2 Dashboard, Events, Tags, Reports, Limits, INSTANCES, IMAGES, and ELASTIC BLOCK STORE. The main content area displays the 'Create Security Group' button and a table of security groups. The 'Inbound' tab is selected for the security group 'sg-110cd467'. The 'Edit' button is highlighted with a red box. Below the tabs, a table lists the inbound rules:

Type	Protocol	Port Range	Source	Description
HTTP	TCP	80	0.0.0.0/0	
HTTP	TCP	80	::/0	
All traffic	All	All	sg-110cd467 (default)	

Add Rule and create a new rule for Type:SSH, Source: 0.0.0.0/0

The screenshot shows the 'Edit inbound rules' dialog box in the AWS Management Console. The dialog box contains a table of inbound rules with columns: Type, Protocol, Port Range, Source, and Description. A new rule for SSH is being added.

Type	Protocol	Port Range	Source	Description
HTTP	TCP	80	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop
HTTP	TCP	80	Custom ::/0	e.g. SSH for Admin Desktop
All traffic	All	0 - 65535	Custom sg-110cd467	e.g. SSH for Admin Desktop
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop

NOTE: Any edits made on existing rules will result in the edited rule being deleted and a new rule created with the new details. This will cause traffic that depends on that rule to be dropped for a very brief period of time until the new rule can be created.

Buttons: Add Rule, Cancel, Save

Connect to your Instance

10. Click on connect.

The screenshot shows the AWS Management Console interface. The 'Connect' button is highlighted with a red rectangle. The console displays a list of EC2 instances, with the instance 'i-0029f691bf6a7c52f' selected. The instance is a 't2.micro' type, running in the 'us-east-1a' availability zone, and its status is 'running'. The public DNS is 'ec2-52-91-34-110.compute-1.amazonaws.com' and the public IP is '52.91.34.110'.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP
	i-0029f691bf6a7c52f	t2.micro	us-east-1a	running	2/2 checks ...	None	ec2-52-91-34-110.compute-1.amazonaws.com	52.91.34.110

The screenshot shows the 'Connect To Your Instance' dialog box. The dialog provides instructions on how to connect to the instance using a standalone SSH client or a Java SSH Client. It lists the steps to access the instance, including opening an SSH client, locating the private key file, and connecting to the instance using its Public DNS. The example command is highlighted with a red rectangle.

Connect To Your Instance

I would like to connect with

- ☒ A standalone SSH client
- ☐ A Java SSH Client directly from my browser (Java required)

To access your instance:

- Open an SSH client. (find out how to [connect using PuTTY](#))
- Locate your private key file (wezva.pem). The wizard automatically detects the key you used to launch the instance.
- Your key must not be publicly viewable for SSH to work. Use this command if needed:

```
chmod 400 wezva.pem
```
- Connect to your instance using its Public DNS:

```
ec2-54-209-6-212.compute-1.amazonaws.com
```

Example:

```
ssh -i "wezva.pem" ubuntu@ec2-54-209-6-212.compute-1.amazonaws.com
```

Please note that in most cases the username above will be correct, however please ensure that you read your AMI usage instructions to ensure that the AMI owner has not changed the default AMI username.

11. Run the above mentioned ssh command from the folder where you have copied the pem/key pair file using gitbash.

ubuntu@ip-172-31-81-133: ~

```
@IN-L1749 MINGW64 /d/Mine/ADAM/AWS
$ ssh -i "wezva.pem" ubuntu@ec2-54-209-6-212.compute-1.amazonaws.com
Welcome to Ubuntu 16.04.5 LTS (GNU/Linux 4.4.0-1065-aws x86_64)
```

```
* Documentation: https://help.ubuntu.com
* Management:   https://landscape.canonical.com
* Support:       https://ubuntu.com/advantage
```

```
Get cloud support with Ubuntu Advantage Cloud Guest:
http://www.ubuntu.com/business/services/cloud
```

```
11 packages can be updated.
8 updates are security updates.
```

```
New release '18.04.1 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
```

```
Last login: Sat Sep  1 16:45:20 2018 from 122.172.109.12
ubuntu@ip-172-31-81-133:~$
```

www.wezva.com

facebook

<https://www.facebook.com/wezva>

LinkedIn

<https://www.linkedin.com/in/wezva>



+91-9739110917

+91-9886328782