

aws

Services

Resource Groups

Ahmed Sayed

Oregon

Support

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

| | | | | | | | | |
|-------------------------------------|-------------------|-------------|----|-------|----------------|-----|------------------|-----|
| <input type="checkbox"/> | Storage optimized | d2.xlarge | 4 | 30.5 | 3 x 2048 | Yes | Moderate | Yes |
| <input type="checkbox"/> | Storage optimized | d2.2xlarge | 8 | 61 | 6 x 2048 | Yes | High | Yes |
| <input type="checkbox"/> | Storage optimized | d2.4xlarge | 16 | 122 | 12 x 2048 | Yes | High | Yes |
| <input type="checkbox"/> | Storage optimized | d2.8xlarge | 36 | 244 | 24 x 2048 | Yes | 10 Gigabit | Yes |
| <input type="checkbox"/> | Storage optimized | i2.xlarge | 4 | 30.5 | 1 x 800 (SSD) | Yes | Moderate | Yes |
| <input type="checkbox"/> | Storage optimized | i2.2xlarge | 8 | 61 | 2 x 800 (SSD) | Yes | High | Yes |
| <input type="checkbox"/> | Storage optimized | i2.4xlarge | 16 | 122 | 4 x 800 (SSD) | Yes | High | Yes |
| <input type="checkbox"/> | Storage optimized | i2.8xlarge | 32 | 244 | 8 x 800 (SSD) | - | 10 Gigabit | Yes |
| <input checked="" type="checkbox"/> | Storage optimized | i3.large | 2 | 15.25 | 1 x 475 (SSD) | Yes | Up to 10 Gigabit | Yes |
| <input type="checkbox"/> | Storage optimized | i3.xlarge | 4 | 30.5 | 1 x 950 (SSD) | Yes | Up to 10 Gigabit | Yes |
| <input type="checkbox"/> | Storage optimized | i3.2xlarge | 8 | 61 | 1 x 1900 (SSD) | Yes | Up to 10 Gigabit | Yes |
| <input type="checkbox"/> | Storage optimized | i3.4xlarge | 16 | 122 | 2 x 1900 (SSD) | Yes | Up to 10 Gigabit | Yes |
| <input type="checkbox"/> | Storage optimized | i3.8xlarge | 32 | 244 | 4 x 1900 (SSD) | Yes | 10 Gigabit | Yes |
| <input type="checkbox"/> | Storage optimized | i3.16xlarge | 64 | 488 | 8 x 1900 (SSD) | Yes | 25 Gigabit | Yes |

Cancel

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Next: Configure Instance Details

Feedback

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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-61286606 (default)

Create new VPC

Subnet

No preference (default subnet in any Availability Zone)

Create new subnet

Auto-assign Public IP

Use subnet setting (Enable)

Placement group

No placement group

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.

EBS-optimized instance

☒ Launch as EBS-optimized instance

Tenancy

Shared - Run a shared hardware instance

Additional charges will apply for dedicated tenancy.

Cancel

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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-0b9c16d670f4e2685 | 128 | General Purpose SSD (GP2) | 384 / 3000 | N/A | <input checked="" type="checkbox"/> | Not Encrypted |
| Instance Store 0 | /dev/nvme*n1 | N/A | N/A | N/A | N/A | N/A | 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

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|------------------|--------------|------------------------|------------|---------------------------|------------|-------------------|-------------------------------------|---------------|
| Root | /dev/sda1 | snap-0b9c16d670f4e2685 | 128 | General Purpose SSD (GP2) | 384 / 3000 | N/A | <input checked="" type="checkbox"/> | Not Encrypted |
| Instance Store 0 | /dev/nvme*n1 | N/A | N/A | N/A | N/A | N/A | 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

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Step 5: Add Tags

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

| Key (127 characters maximum) | Value (255 characters maximum) | Instances (1) | Volumes (1) | |
|------------------------------|--------------------------------|-------------------------------------|-------------------------------------|----------------------------------|
| Name | Hadoop | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="button" value="X"/> |

(Up to 50 tags maximum)

Cancel

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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-5

Description:

launch-wizard-5 created 2017-11-23T18:53:34.414-06:00

| Type (1) | Protocol (1) | Port Range (1) | Source (1) | Description (1) | |
|------------|--------------|----------------|--------------------------|----------------------------|----------------------------------|
| SSH | TCP | 22 | Anywhere 0.0.0.0/0, ::/0 | e.g. SSH for Admin Desktop | <input type="button" value="X"/> |
| Custom TCP | TCP | 50030 | Anywhere 0.0.0.0/0, ::/0 | e.g. SSH for Admin Desktop | <input type="button" value="X"/> |
| Custom TCP | TCP | 50070 | Anywhere 0.0.0.0/0, ::/0 | e.g. SSH for Admin Desktop | <input type="button" value="X"/> |
| Custom TCP | TCP | 54310 | Anywhere 0.0.0.0/0, ::/0 | e.g. SSH for Admin Desktop | <input type="button" value="X"/> |
| Custom TCP | TCP | 54311 | Anywhere 0.0.0.0/0, ::/0 | e.g. SSH for Admin Desktop | <input type="button" value="X"/> |
| Custom TCP | TCP | 50040 | Anywhere 0.0.0.0/0, ::/0 | e.g. SSH for Admin Desktop | <input type="button" value="X"/> |
| Custom TCP | TCP | 50050 | Anywhere 0.0.0.0/0, ::/0 | e.g. SSH for Admin Desktop | <input type="button" value="X"/> |
| Custom TCP | TCP | 50060 | Anywhere 0.0.0.0/0, ::/0 | e.g. SSH for Admin Desktop | <input type="button" value="X"/> |

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Step 7: Review Instance Launch

⚠️

Improve your instances' security. Your security group, launch-wizard-5, 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](#)

⚠️

Your instance configuration is not eligible for the free usage tier
To launch an instance that's eligible for the free usage tier, check your AMI selection, instance type, configuration options, or storage devices. Learn more about [free usage tier](#) eligibility and usage restrictions. [Don't show me this again](#)

AMI Details

ⓘ

Free tier eligible

Ubuntu Server 16.04 LTS (HVM), SSD Volume Type - ami-0a00ce72
Ubuntu Server 16.04 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

Edit AMI

Instance Type

| Instance Type | ECUs | vCPUs | Memory (GiB) | Instance Storage (GB) | EBS-Optimized Available | Network Performance |
|---------------|------|-------|--------------|-----------------------|-------------------------|---------------------|
| i3.large | 9 | 2 | 15.25 | EBS only | Yes | Up to 10 Gigabit |

Edit instance type

Security Groups

Security group name

launch-wizard-5

Edit security groups

Cancel

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Step 7: Review Instance Launch

| | | | |
|-----------------|-----|-------|-----------|
| SSH | TCP | 22 | :::0 |
| Custom TCP Rule | TCP | 50030 | 0.0.0.0/0 |
| Custom TCP Rule | TCP | | |
| Custom TCP Rule | TCP | | |
| Custom TCP Rule | TCP | | |
| Custom TCP Rule | TCP | | |
| Custom TCP Rule | TCP | | |
| Custom TCP Rule | TCP | | |
| Custom TCP Rule | TCP | | |
| Custom TCP Rule | TCP | | |
| Custom TCP Rule | TCP | | |
| Custom TCP Rule | TCP | | |
| Custom TCP Rule | TCP | | |
| Custom TCP Rule | TCP | | |
| Custom TCP Rule | TCP | | |
| Custom TCP Rule | TCP | | |

Instance Details

Storage

Tags

Cancel

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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](#).

Choose an existing key pair

Select a key pair

AhmedShared

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

Cancel

Launch Instances

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Launch Status

✔ Your instances are now launching

The following instance launches have been initiated: [i-0844451e0dca4d11b](#) [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 Linux instance](#)
- [Amazon EC2: User Guide](#)
- [Learn about AWS Free Usage Tier](#)
- [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)
- [Manage security groups](#)

View Instances

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EC2 Dashboard

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Snapshots

NETWORK & SECURITY

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

LOAD BALANCING

Load Balancers

Target Groups

Instance: i-0844451e0dca4d11b

Description

Availability zone us-west-2c

Private IPs 172.31.14.0

Public DNS (IPv4)

ec2-34-215-69-49.us-west-2.compute.amazonaws.com

ec2-35-163-220-50.us-west-2.compute.amazonaws.com

ec2-52-38-8-221.us-west-2.compute.amazonaws.com

ec2-69-49.us-west-2.compute.amazonaws.com

ec2-4-0.us-west-2.compute.internal

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:

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

```
chmod 400 AhmedShared.pem
```
4. Connect to your instance using its Public DNS:

```
ec2-34-215-69-49.us-west-2.compute.amazonaws.com
```

Example:

```
ssh -i "AhmedShared.pem" ubuntu@ec2-34-215-69-49.us-west-2.compute.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.

If you need any assistance connecting to your instance, please see our [connection documentation](#).

Close

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```
[Ahmeds-MacBook-Pro:PA2 ahmedsayed$ ssh -i "AhmedShared.pem" ubuntu@ec2-34-212-113-254.us-west-2.compute.amazonaws.com  
Welcome to Ubuntu 16.04.3 LTS (GNU/Linux 4.4.0-1041-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
```

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

```
Last login: Sun Dec 3 12:22:09 2017 from 207.237.204.157  
ubuntu@ip-172-31-9-44:~$ █
```

Overview

'ip-172-31-9-44.us-west-2.compute.internal:8020' (active)

| | |
|----------------|--|
| Started: | Sun Dec 03 06:36:37 UTC 2017 |
| Version: | 2.7.4, rcd915e1e8d9d0131462a0b7301586c175728a282 |
| Compiled: | 2017-08-01T00:29Z by kshvachk from branch-2.7.4 |
| Cluster ID: | CID-8041f28f-e914-483f-a247-3ba201ed0fa0 |
| Block Pool ID: | BP-129193080-172.31.9.44-1512282979190 |

Summary

Security is off.

Safemode is off.

9 files and directories, 259 blocks = 268 total filesystem object(s).

Heap Memory used 38.22 MB of 434 MB Heap Memory. Max Heap Memory is 889 MB.

Non Heap Memory used 50.72 MB of 51.6 MB Committed Non Heap Memory. Max Non Heap Memory is -1 B.

| | |
|--|----------------------------------|
| Configured Capacity: | 290.76 GB |
| DFS Used: | 32.44 GB (11.16%) |
| Non DFS Used: | 132.07 GB |
| DFS Remaining: | 126.23 GB (43.41%) |
| Block Pool Used: | 32.44 GB (11.16%) |
| DataNodes usages% (Min/Median/Max/stdDev): | 11.16% / 11.16% / 11.16% / 0.00% |
| Live Nodes | 1 (Decommissioned: 0) |
| Dead Nodes | 0 (Decommissioned: 0) |
| Decommissioning Nodes | 0 |
| Total Datanode Volume Failures | 0 (0 B) |
| Number of Under-Replicated Blocks | 0 |
| Number of Blocks Pending Deletion | 0 |
| Block Deletion Start Time | 03/12/2017, 00:36:37 |

NameNode Journal Status

Current transaction ID: 1487

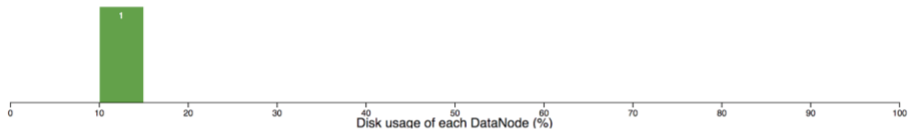
| Journal Manager | State |
|--|---|
| FileJournalManager(root=/home/ubuntu/tmp/dfs/name) | EditLogFileOutputStream(/home/ubuntu/tmp/dfs/name/current/edits_inprogress_00000000000001483) |

NameNode Storage

| Storage Directory | Type | State |
|---------------------------|-----------------|--------|
| /home/ubuntu/tmp/dfs/name | IMAGE_AND_EDITS | Active |

Datanode Information

Datanode usage histogram



In operation

| Node | Last contact | Admin State | Capacity | Used | Non DFS Used | Remaining | Blocks | Block pool used | Failed Volumes | Version |
|---|--------------|-------------|-----------|----------|--------------|-----------|--------|-------------------|----------------|---------|
| ip-172-31-9-44.us-west-2.compute.internal:50010 (172.31.9.44:50010) | 0 | In Service | 290.76 GB | 32.44 GB | 132.21 GB | 126.1 GB | 259 | 32.44 GB (11.16%) | 0 | 2.7.4 |

Decomissioning

| Node | Last contact | Under replicated blocks | Blocks with no live replicas | Under Replicated Blocks In files under construction |
|------|--------------|-------------------------|------------------------------|---|
|------|--------------|-------------------------|------------------------------|---|

Hadoop, 2017.

Spark

Create Case

Case History

10:43 AM 10/10/17

We have approved and processed your limit increase request(s). It can sometimes take up to 30 minutes for this to propagate and become available for use. I hope this helps, but please reopen this case if you encounter any issues.

Summary of limit(s) requested for increase:

[US East (Northern Virginia)]: EC2 Instances / Instance Limit (i3.xlarge), New Limit = 2

Best regards,
Amazon Web Services

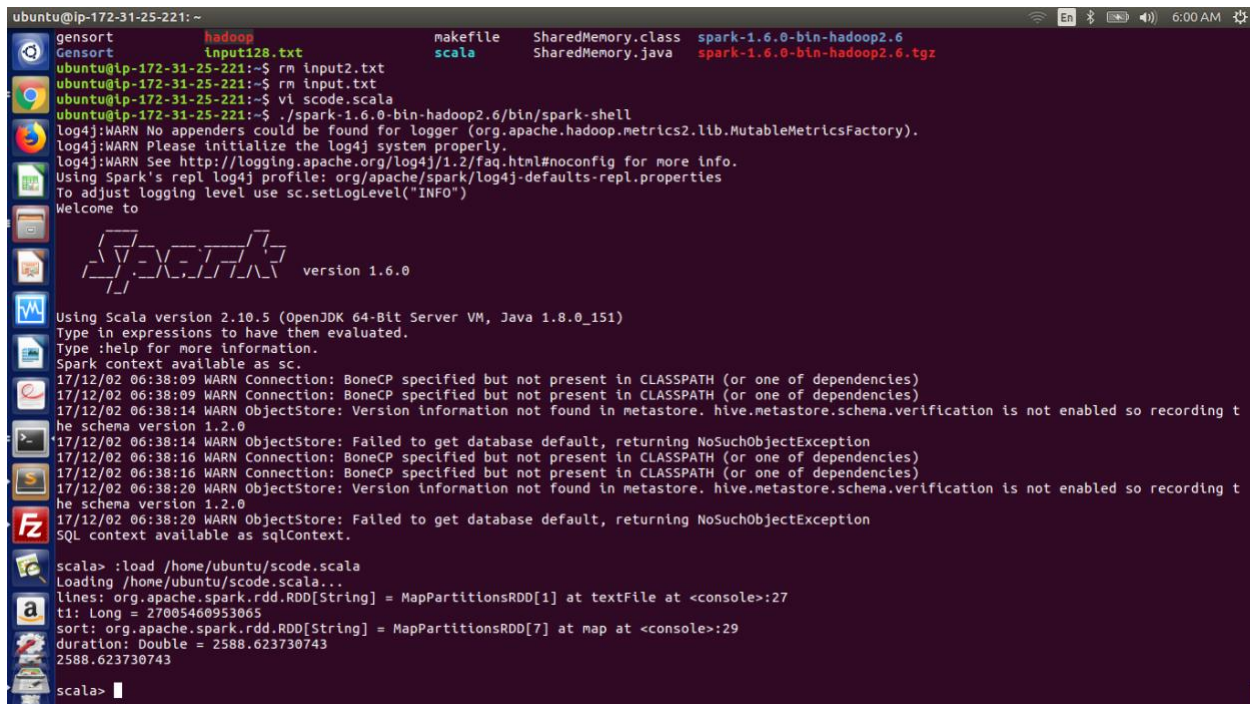
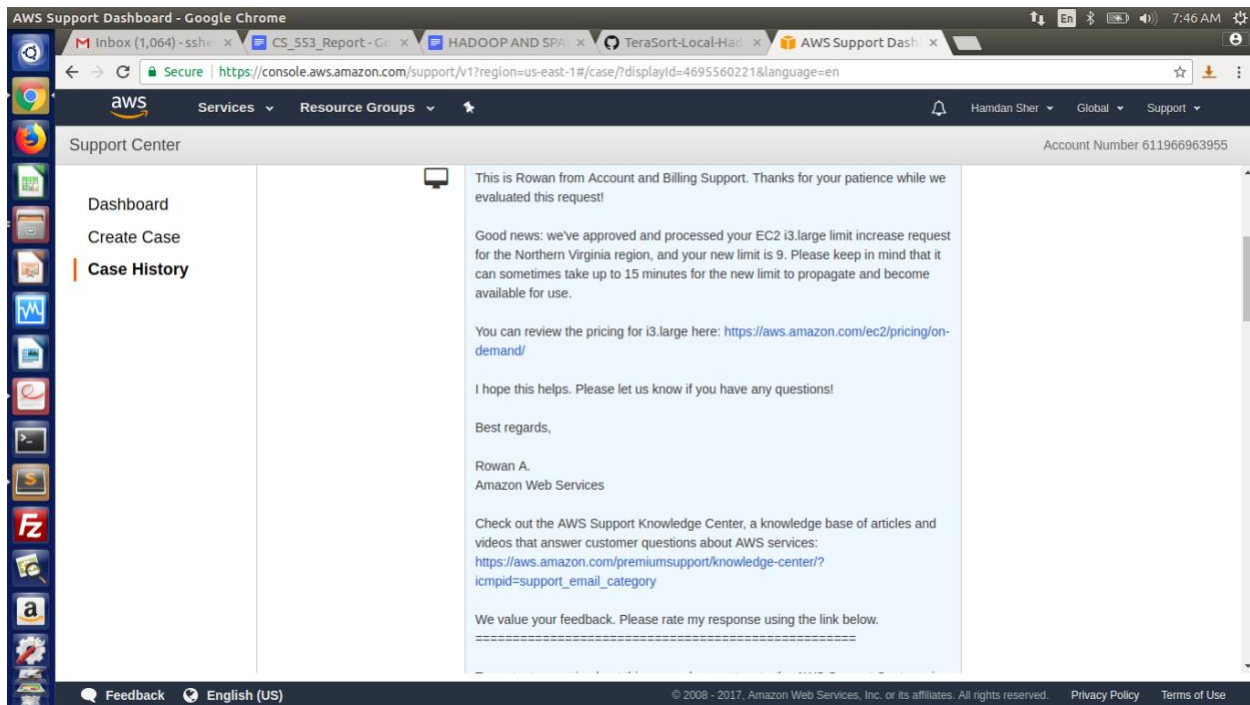
We value your feedback. Please rate our response below:
=====

Was this response helpful? Click here to rate:
★★★★★ Excellent

Feedback

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```
ubuntu@ip-172-31-25-87: ~
┌───┴───┐
└─┬───┴───┘ version 1.6.0

Using Scala version 2.10.5 (OpenJDK 64-Bit Server VM, Java 1.8.0_151)
Type in expressions to have them evaluated.
Type :help for more information.
Spark context available as sc.
17/12/02 07:32:42 WARN General: Plugin (Bundle) "org.datanucleus.api.jdo" is already registered. Ensure you dont have multiple JAR versions of t
he same plugin in the classpath. The URL "file:/home/ubuntu/spark-1.6.0-bin-hadoop2.6/lib/datanucleus-api-jdo-3.2.6.jar" is already registered,
and you are trying to register an identical plugin located at URL "file:/home/ubuntu/spark/lib/datanucleus-api-jdo-3.2.6.jar."
17/12/02 07:32:42 WARN General: Plugin (Bundle) "org.datanucleus" is already registered. Ensure you dont have multiple JAR versions of the same
plugin in the classpath. The URL "file:/home/ubuntu/spark-1.6.0-bin-hadoop2.6/lib/datanucleus-core-3.2.10.jar" is already registered, and you ar
e trying to register an identical plugin located at URL "file:/home/ubuntu/spark/lib/datanucleus-core-3.2.10.jar."
17/12/02 07:32:42 WARN General: Plugin (Bundle) "org.datanucleus.store.rdbms" is already registered. Ensure you dont have multiple JAR versions
of the same plugin in the classpath. The URL "file:/home/ubuntu/spark/lib/datanucleus-rdbms-3.2.9.jar" is already registered, and you are trying
to register an identical plugin located at URL "file:/home/ubuntu/spark-1.6.0-bin-hadoop2.6/lib/datanucleus-rdbms-3.2.9.jar."
17/12/02 07:32:42 WARN Connection: BoneCP specified but not present in CLASSPATH (or one of dependencies)
17/12/02 07:32:42 WARN Connection: BoneCP specified but not present in CLASSPATH (or one of dependencies)
17/12/02 07:32:45 WARN ObjectStore: Version information not found in metastore. hive.metastore.schema.verification is not enabled so recording t
he schema version 1.2.0
17/12/02 07:32:45 WARN ObjectStore: Failed to get database default, returning NoSuchObjectException
17/12/02 07:32:46 WARN General: Plugin (Bundle) "org.datanucleus.store.rdbms" is already registered. Ensure you dont have multiple JAR versions
of the same plugin in the classpath. The URL "file:/home/ubuntu/spark/lib/datanucleus-rdbms-3.2.9.jar" is already registered, and you are trying
to register an identical plugin located at URL "file:/home/ubuntu/spark-1.6.0-bin-hadoop2.6/lib/datanucleus-rdbms-3.2.9.jar."
17/12/02 07:32:46 WARN General: Plugin (Bundle) "org.datanucleus.api.jdo" is already registered. Ensure you dont have multiple JAR versions of t
he same plugin in the classpath. The URL "file:/home/ubuntu/spark-1.6.0-bin-hadoop2.6/lib/datanucleus-api-jdo-3.2.6.jar" is already registered,
and you are trying to register an identical plugin located at URL "file:/home/ubuntu/spark/lib/datanucleus-api-jdo-3.2.6.jar."
17/12/02 07:32:46 WARN General: Plugin (Bundle) "org.datanucleus" is already registered. Ensure you dont have multiple JAR versions of the same
plugin in the classpath. The URL "file:/home/ubuntu/spark-1.6.0-bin-hadoop2.6/lib/datanucleus-core-3.2.10.jar" is already registered, and you ar
e trying to register an identical plugin located at URL "file:/home/ubuntu/spark/lib/datanucleus-core-3.2.10.jar."
17/12/02 07:32:46 WARN Connection: BoneCP specified but not present in CLASSPATH (or one of dependencies)
17/12/02 07:32:46 WARN Connection: BoneCP specified but not present in CLASSPATH (or one of dependencies)
SQL context available as sqlContext.

scala> :load /home/ubuntu/scode.scala
Loading /home/ubuntu/scode.scala...
lines: org.apache.spark.rdd.RDD[String] = MapPartitionsRDD[1] at textFile at <console>:27
t1: Long = 28284321391908
sort: org.apache.spark.rdd.RDD[String] = MapPartitionsRDD[7] at map at <console>:29
duration: Double = 803.935325867
803.935325867
[Stage 1:] (0 + 16) / 4096█
```

EC2 Management Console - Google Chrome

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

Services Resource Groups

EC2 Dashboard

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 - Scheduled Instances
- IMAGES
 - AMIs
 - Bundle Tasks
- ELASTIC BLOCK STORE
 - Volumes
 - Snapshots
- NETWORK & SECURITY

Resources

You are using the following Amazon EC2 resources in the US East (N. Virginia) region:

| | |
|----------------------|--------------------|
| 10 Running Instances | 0 Elastic IPs |
| 0 Dedicated Hosts | 0 Snapshots |
| 10 Volumes | 0 Load Balancers |
| 2 Key Pairs | 10 Security Groups |
| 0 Placement Groups | |

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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 East (N. Virginia) region

Service Health

Service Status:

Scheduled Events

US East (N. Virginia):

Account Attributes

- Supported Platforms
 - VPC
- Default VPC
 - vpc-bb3cbbdd
- 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 (US)

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