

Setup HBase-Spark using Directly with AMI

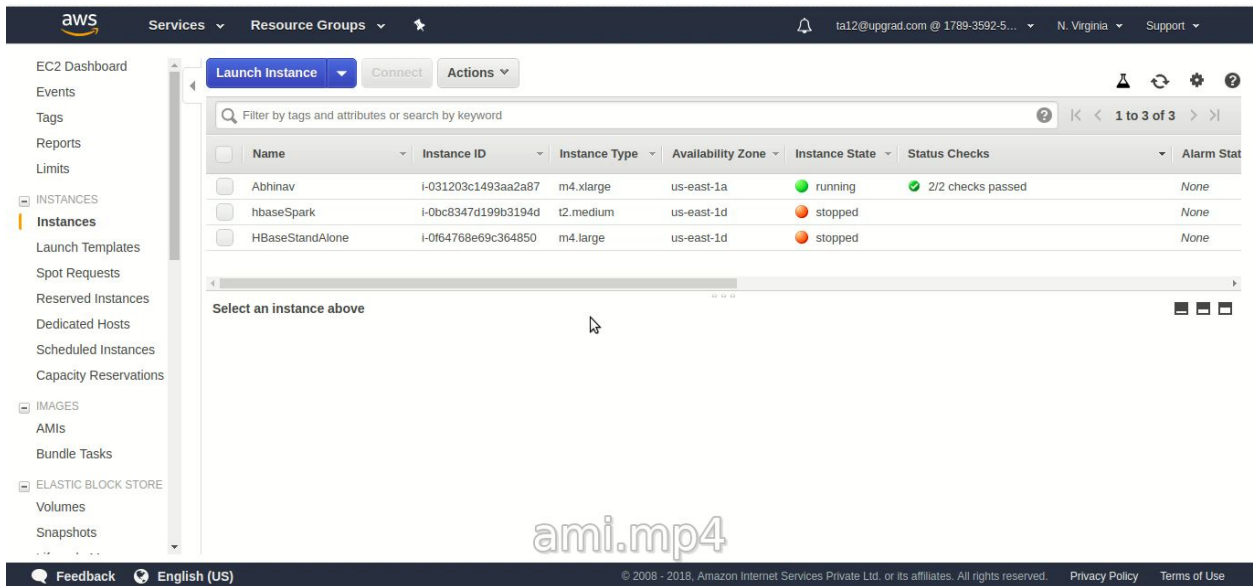
NOTE-

Region- N.VERGINIA

AMI ID- ami-05a9c3ed021f5d960

AMI NAME: hbase sprak

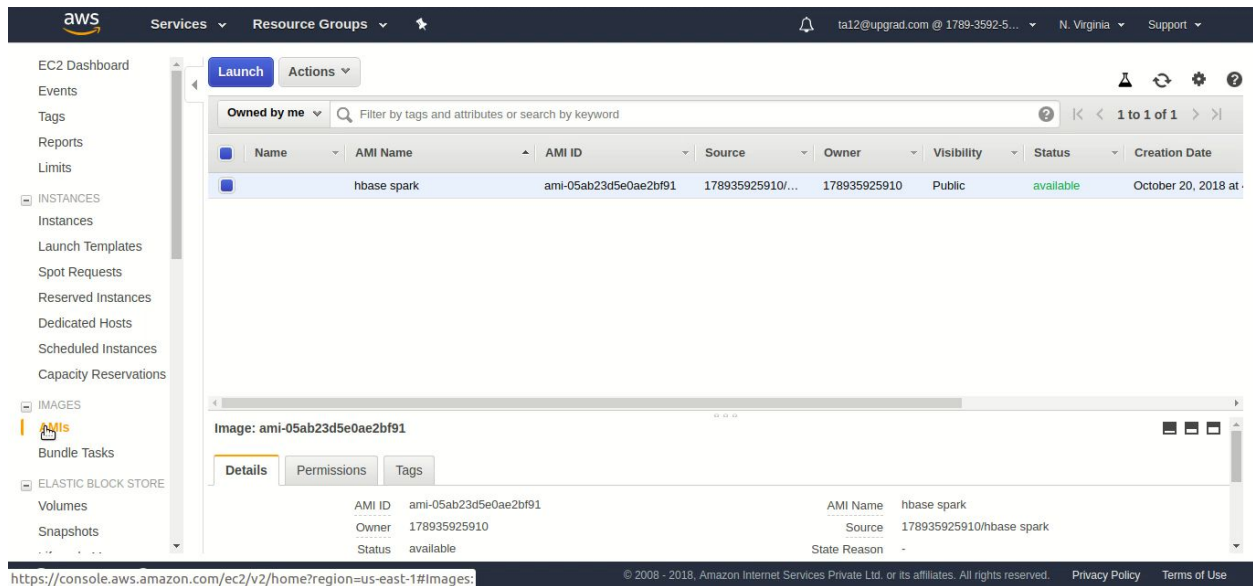
1. Go to the EC2 DASHBOARD.



The screenshot shows the AWS Management Console's EC2 Dashboard. The left-hand navigation menu is visible, with 'INSTANCES' selected. The main content area displays a table of EC2 instances. The table has columns for Name, Instance ID, Instance Type, Availability Zone, Instance State, Status Checks, and Alarm State. Three instances are listed: 'Abhinav' (running), 'hbaseSpark' (stopped), and 'HBaseStandAlone' (stopped). Below the table, there is a prompt to 'Select an instance above'.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm State
Abhinav	i-031203c1493aa2a87	m4.xlarge	us-east-1a	running	2/2 checks passed	None
hbaseSpark	i-0bc8347d199b3194d	t2.medium	us-east-1d	stopped		None
HBaseStandAlone	i-0f64768e69c364850	m4.large	us-east-1d	stopped		None

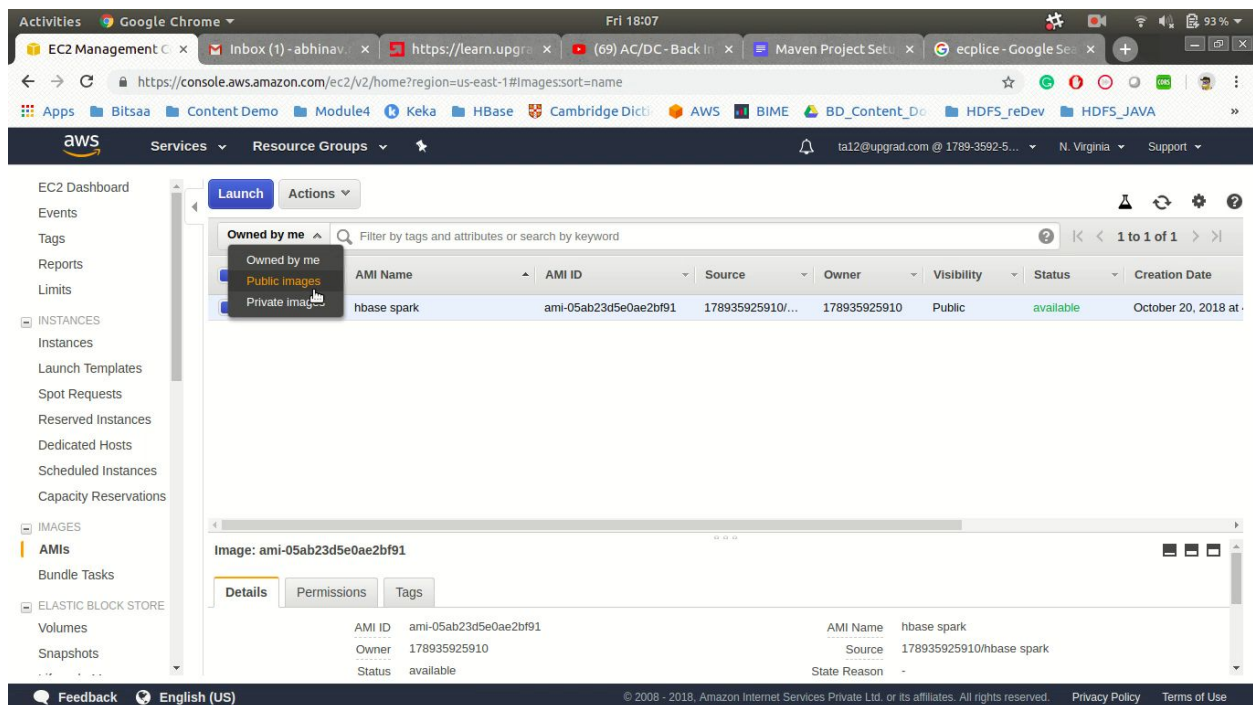
2. Click on AMI



The screenshot shows the AWS Management Console interface. On the left, the navigation menu includes EC2 Dashboard, Events, Tags, Reports, Limits, INSTANCES, IMAGES, ELASTIC BLOCK STORE, and Snapshots. The 'IMAGES' section is selected, and the 'hbase spark' AMI is highlighted. The details for this AMI are shown below the table:

Property	Value
AMI ID	ami-05ab23d5e0ae2bf91
Owner	178935925910
Status	available
AMI Name	hbase spark
Source	178935925910/hbase spark
State Reason	-

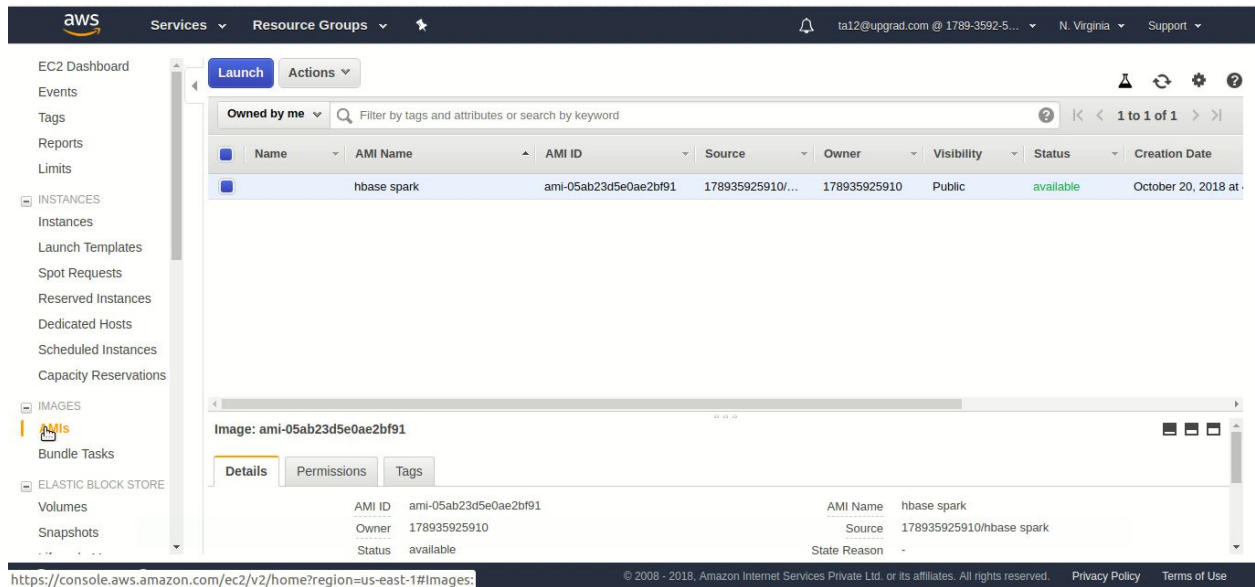
3. Select Public Images



The screenshot shows the AWS Management Console interface with the 'Public Images' filter selected in the 'Owned by me' dropdown menu. The table below shows the list of public AMIs:

Owned by me	AMI Name	AMI ID	Source	Owner	Visibility	Status	Creation Date
Public Images	hbase spark	ami-05ab23d5e0ae2bf91	178935925910/...	178935925910	Public	available	October 20, 2018 at

3. Paste the AMI ID - `ami-05a9c3ed021f5d960` and enter then select the AMI named, **hbase spark** which appears on the screen.



The screenshot shows the AWS Management Console interface. The left sidebar contains navigation links for EC2 Dashboard, Events, Tags, Reports, Limits, INSTANCES, and IMAGES. The 'IMAGES' section is expanded, showing 'AMIs' and 'Bundle Tasks'. The main content area displays a table of AMIs. The selected AMI is 'hbase spark' with AMI ID 'ami-05ab23d5e0ae2bf91'. Below the table, the 'Details' tab is active, showing the AMI's properties.

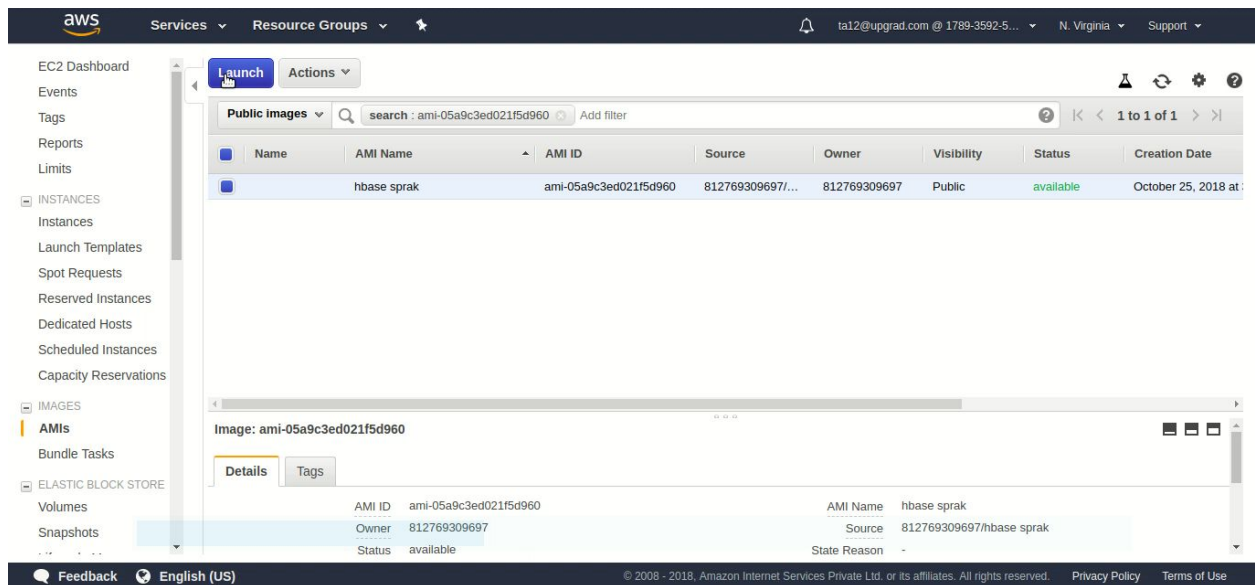
Name	AMI Name	AMI ID	Source	Owner	Visibility	Status	Creation Date
hbase spark	ami-05ab23d5e0ae2bf91	178935925910/...	178935925910	Public	available	October 20, 2018 at	

Image: ami-05ab23d5e0ae2bf91

Property	Value
AMI ID	ami-05ab23d5e0ae2bf91
Owner	178935925910
Status	available
AMI Name	hbase spark
Source	178935925910/hbase spark
State Reason	-

https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#Images: © 2008 - 2018, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use

4. Click on Lunch



The screenshot shows the AWS Management Console interface. The left sidebar contains navigation links for EC2 Dashboard, Events, Tags, Reports, Limits, INSTANCES, and IMAGES. The 'IMAGES' section is expanded, showing 'AMIs' and 'Bundle Tasks'. The main content area displays a table of AMIs. The selected AMI is 'hbase sprak' with AMI ID 'ami-05a9c3ed021f5d960'. Below the table, the 'Details' tab is active, showing the AMI's properties.



Name	AMI Name	AMI ID	Source	Owner	Visibility	Status	Creation Date
hbase sprak	ami-05a9c3ed021f5d960	812769309697/...	812769309697	Public	available	October 25, 2018 at	

Image: ami-05a9c3ed021f5d960

Property	Value
AMI ID	ami-05a9c3ed021f5d960
Owner	812769309697
Status	available
AMI Name	hbase sprak
Source	812769309697/hbase sprak
State Reason	-

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5. Select the instance type as t2.medium


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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.medium (Variable ECUs, 2 vCPUs, 2.3 GHz, Intel Broadwell E5-2686v4, 4 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 type="checkbox"/>	General purpose	t2.micro <small>Free tier eligible</small>	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input checked="" 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

Cancel
 Previous
 Review and Launch
 Next: Configure Instance Details

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6. Click on Add storage


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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-8f18cbf5 (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 ☐ Add instance to placement group.

Capacity Reservation Open Create new Capacity Reservation


IAM role None Create new IAM role

Shutdown behavior Stop

Cancel
 Previous
 Review and Launch
 Next: Add Storage

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7. Select storage size as 10GB and type as magnetic


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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/xvda	snap-0790680d14b1cdd7e	10	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

[Add New Volume](#)


General Purpose SSD (gp2)
 General Purpose SSD (gp2)
 Provisioned IOPS SSD (io1)
 Magnetic (standard)

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: Add Tags](#)

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8. Click on **click to add a new tag**


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

Step 5: Add Tags

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

Key	Value	Instances	Volumes
This resource currently has no tags			

Choose the [Add tag](#) button or [click to add a Name tag](#).
 Make sure your [IAM policy](#) includes permissions to create tags.

[Add Tag](#) (Up to 50 tags maximum)

[Cancel](#)
[Previous](#)
[Review and Launch](#)
[Next: Configure Security Group](#)

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9. In value, give your new instance a name, then click on Next



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1. Choose AMI

2. Choose Instance Type

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5. Add Tags

6. Configure Security Group

7. Review

Step 5: Add Tags

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

Key (127 characters maximum)	Value (255 characters maximum)	Instances	Volumes
Name	SparkHBase	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Add another tag

(Up to 50 tags maximum)

Cancel

Previous

Review and Launch

Next: Configure Security Group

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10. Select the existing security group, then click on **Review and Lunch**

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1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

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 ID	Name	Description	Actions
<input checked="" type="checkbox"/> sg-0bcf8f23970c172fe	cloudera security group	open the port service wide	Copy to new
<input type="checkbox"/> sg-8e1a5ac2	default	default VPC security group	Copy to new
<input type="checkbox"/> sg-02de7630a3401f3b5	HostID	Inbound to My IP	Copy to new

Inbound rules for sg-0bcf8f23970c172fe (Selected security groups: sg-0bcf8f23970c172fe)

Type	Protocol	Port Range	Source	Description
All TCP	TCP	0 - 65535	114.143.176.26/32	
Custom TCP Rule	TCP	7180	114.143.176.26/32	

Cancel

Previous

Review and Launch

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11. Select **Continue with Megnatic** as the boot volume and click on Next

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 6: Configure Security Group

A security group is a set of firewall rules that control the inbound and outbound traffic to and from an existing one below. [Learn more about Amazon EC2 security groups.](#)

Assign a security group:

Security Group ID

- ☒ sg-0bcf8f23970c172fe
- ☐ sg-8e1a5ac2
- ☐ sg-02de7630a3401f3b5

Inbound rules for sg-0bcf8f23970c172fe (Select)

Type	Protocol
All TCP	TCP
Custom TCP Rule	TCP

Boot from General Purpose (SSD)

General Purpose (SSD) volumes provide the ability to burst to 3000 IOPS per volume, independent of volume size, to meet the performance needs of most applications and also deliver a consistent baseline of 3 IOPS/GiB.

- ☐ Make General Purpose (SSD) the default boot volume for all instance launches from the console going forward (recommended).
- ☐ Make General Purpose (SSD) the boot volume for this instance.
- ☒ Continue with Magnetic as the boot volume for this instance.

Free tier eligible customers can get up to 30GB of General Purpose (SSD) storage.

☐ Don't show again Next

Cancel Previous Review and Launch

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12. Click on Lunch

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 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.

⚠ 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](#)

[Edit AMI](#)

▼ AMI Details

hbase sprak - ami-05a9c3ed021f5d960

hbase

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.medium	Variable	2	4	EBS only	-	Low to Moderate

Cancel Previous Launch

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13. Select your **key-pair**, acknowledge and then click on **Lunch instance**.

Step 7: Review Instance Launch

Please review your instance launch details. You can cancel the launch process.

Your instance configuration is not eligible for the free usage tier.
To launch an instance that's eligible for the free usage tier, see [about free usage tier eligibility and usage](#).

AMI Details

hbase sprak - ami-05a9c3ed02
hbase
Root Device Type: ebs Virtualization type: hvm

Instance Type

Instance Type	ECUs
t2.medium	Variable

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
abhinav

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

[Cancel](#) [Launch Instances](#)

[Cancel](#) [Previous](#) [Launch](#)

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15. See your newly created instance on the ec2 dashboard.

EC2 Dashboard

[Launch Instance](#) [Connect](#) [Actions](#)

Filter by tags and attributes or search by keyword

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Stat
Abhinav	i-031203c1493aa2a87	m4.xlarge	us-east-1a	running	2/2 checks passed	None
hbaseSpark	i-0bc8347d199b3194d	t2.medium	us-east-1d	stopped		None
SparkHBase	i-0ca92670f2d4ad3b1	t2.medium	us-east-1a	pending	Initializing	None
HBaseStandAlone	i-0f64768e69c364850	m4.large	us-east-1d	stopped		None

Select an instance above

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