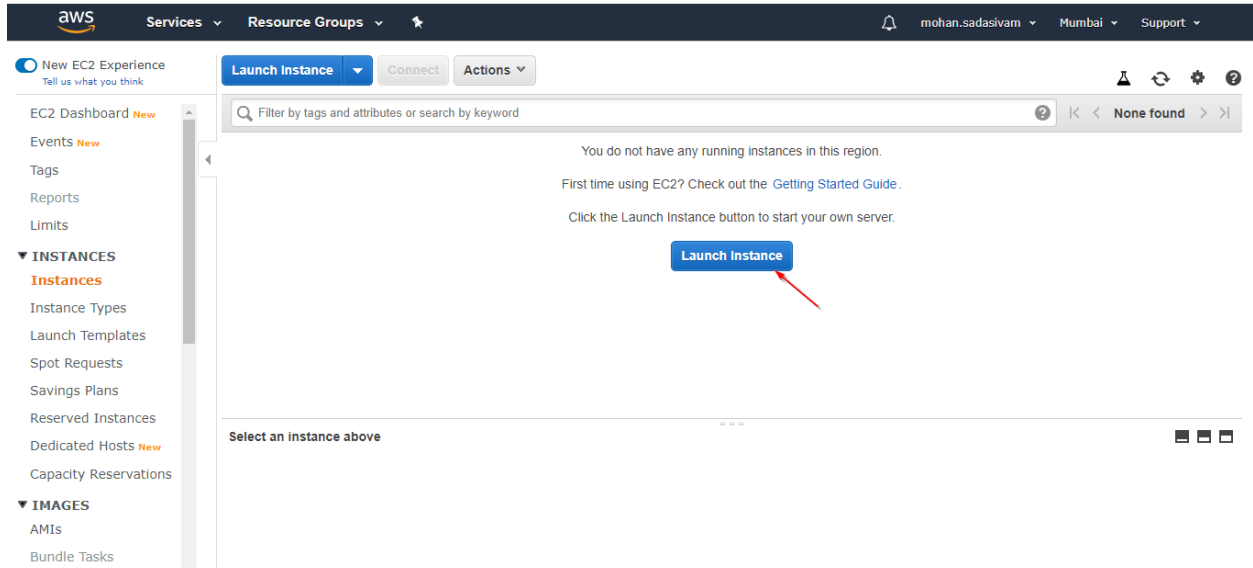


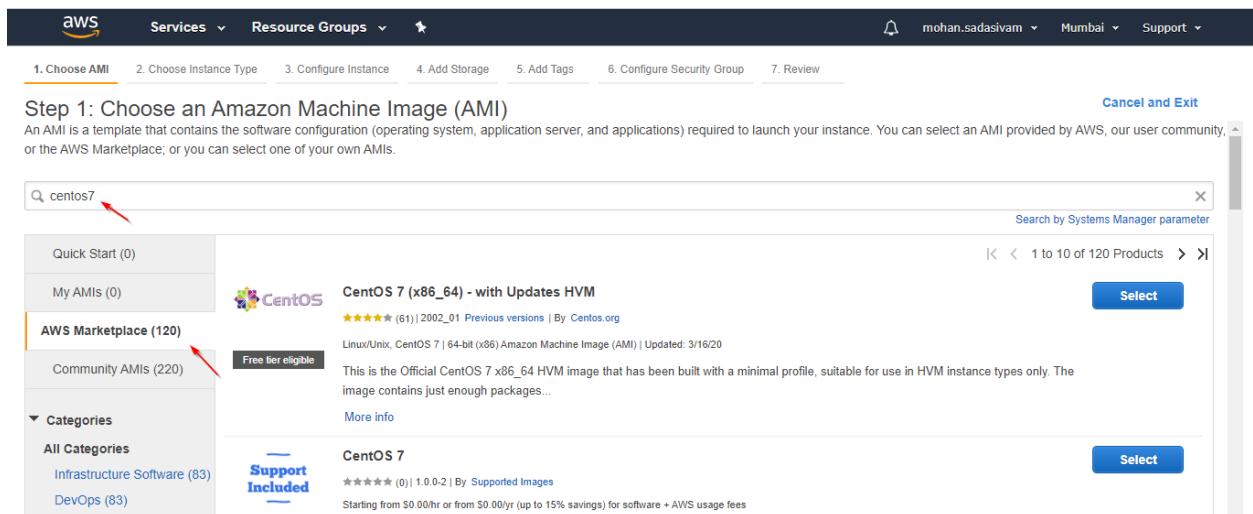
AWS Instance Creation

Procedure for building a cluster using AWS.

Step 1: Login to AWS using your account. Then click EC2 and launch instance.



Step 2: Search centos7 in AWS marketplace and choose that.



aws

Services

Resource Groups

mohan.sadasivam

Mumbai

Support

CentOS

This is the Official CentOS 7 x86_64 HVM image that has been built with a minimal profile, suitable for use in HVM instance types only. The image contains just enough packages to run within AWS, bring up an SSH Server and allow users to login. Please note that this is the default CentOS-7 image that we recommend everyone uses. It contains ...

[More info](#)

[View Additional Details in AWS Marketplace](#)

Free tier eligible

Product Details

By

Centos.org

Customer Rating

★★★★★ (61)

Latest Version

2002_01

Base Operating System

Linux/Unix, CentOS 7

Delivery Method

64-bit (x86) Amazon Machine Image (AMI)

License Agreement

[End User License Agreement](#)

On Marketplace Since

10/6/14

Highlights

- All official CentOS Linux images are built with SELINUX set to enforcing mode. However, we test the images with both Selinux enabled as well as permissive.

Hourly Fees

Instance Type	Software	EC2	Total
t2.nano	\$0.00	\$0.006	\$0.006/hr
t2.micro	\$0.00	\$0.012	\$0.012/hr
t2.small	\$0.00	\$0.025	\$0.025/hr
t2.medium	\$0.00	\$0.05	\$0.05/hr
t2.large	\$0.00	\$0.099	\$0.099/hr
t2.xlarge	\$0.00	\$0.198	\$0.198/hr
t2.2xlarge	\$0.00	\$0.397	\$0.397/hr
t3a.nano	\$0.00	\$0.003	\$0.003/hr
t3a.micro	\$0.00	\$0.006	\$0.006/hr
t3a.small	\$0.00	\$0.012	\$0.012/hr
t3a.medium	\$0.00	\$0.025	\$0.025/hr
t3a.large	\$0.00	\$0.049	\$0.049/hr
t3a.xlarge	\$0.00	\$0.099	\$0.099/hr
t3a.2xlarge	\$0.00	\$0.197	\$0.197/hr
t3.nano	\$0.00	\$0.006	\$0.006/hr
t3.micro	\$0.00	\$0.011	\$0.011/hr
t3.small	\$0.00	\$0.022	\$0.022/hr

Cancel

Continue

Step 3: Select t2.medium and click next configure instance details.

aws

Services

Resource Groups

mohan.sadasivam

Mumbai

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

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GiB)	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	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
<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	t3a.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes
<input type="checkbox"/>	General purpose	t3a.micro	2	1	EBS only	Yes	Up to 5 Gigabit	Yes

Cancel

Previous

Review and Launch

Next: Configure Instance Details

Step 4: Give the number of instances you want based on your requirement and then select the storage type.

aws

Services

Resource Groups

★

🔔

mohan.sadasivam

Mumbai

Support

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

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 ⓘ

4

Launch into Auto Scaling Group ⓘ

You may want to consider launching these instances into an Auto Scaling Group to help you maintain application availability and for easy scaling in the future. [Learn how Auto Scaling can help your application stay healthy and cost effective.](#)

Purchasing option ⓘ

☐ Request Spot instances

Network ⓘ

vpc-b32f44db (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

Cancel

Previous

Review and Launch

Next: Add Storage

aws

Services

Resource Groups

★

🔔

mohan.sadasivam

Mumbai

Support

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

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 ⓘ	Encryption ⓘ
Root	/dev/sda1	snap-0ca465c4930fd32eb	8	General Purpose SSD (gp2)	100 / 3000	N/A	<input type="checkbox"/>	Not Encrypt

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: Add Tags

Step 5: Then add a tag to your instance i.e name for the instance.

aws

Services

Resource Groups

🔔

mohan.sadasivam

Mumbai

Support

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 (128 characters maximum)

Value (256 characters maximum)

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

Step 6: Create a security group for the instance. According to the need we need to Open the ports.

aws

Services

Resource Groups

🔔

mohan.sadasivam

Mumbai

Support

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 name: CentOS 7 -x86_64- - with Updates HVM-2002_01-AutogenByAWSMP-

Description: This security group was generated by AWS Marketplace and is based on recomm

Type ⓘ	Protocol ⓘ	Port Range ⓘ	Source ⓘ	Description ⓘ	
SSH ▾	TCP	22	Custom ▾ 0.0.0.0/0	e.g. SSH for Admin Desktop	✕
Custom TCP ▾	TCP	2181	Anywhere ▾ 0.0.0.0, ::/0	e.g. SSH for Admin Desktop	✕
All ICMP - IPv ▾	ICMP	0 - 65535	Anywhere ▾ 0.0.0.0, ::/0	e.g. SSH for Admin Desktop	✕
SSH ▾	TCP	22	Anywhere ▾ 0.0.0.0, ::/0	e.g. SSH for Admin Desktop	✕

Add Rule

Cancel

Previous

Review and Launch

Step 7: Finally, your instance is ready to launch.

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 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, Doppa2020_Kafka_Cluster, 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 [Edit AMI](#)

CentOS 7 (x86_64) - with Updates HVM
Free tier eligible CentOS Linux 7 x86_64 HVM EBS ENA2002_01
Root Device Type: ebs Virtualization type: hvm

Hourly Software Fees: \$0.00 per hour on t2.medium instance. Additional taxes or fees may apply.

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

Step 8: Create a key pair, .pem file will be created, we have download it.

aws Services Resource Groups

Suganya Mumbai Support

Free tier eligible CentOS Linux 7 x86_64 HVM EBS ENA2002_01 Root Device Type: ebs Virtualization type: hvm

Hourly Software Fees: \$0.00 per hour on t2.medium instance. Additional taxes or fees may apply.

By launching this product, you will accept the [End User License Agreement](#)

▼ Instance Type

Instance Type	ECUs	vCPUs	Memory (GiB)
t2.micro	Variable	1	1

▼ Security Groups

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
Doppa2020-kafka

[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](#)

[Edit instance type](#)

Network Performance
Low to Moderate

[Edit security groups](#)

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

Feedback English (US)

© 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. [Privacy Policy](#) [Terms of Use](#)

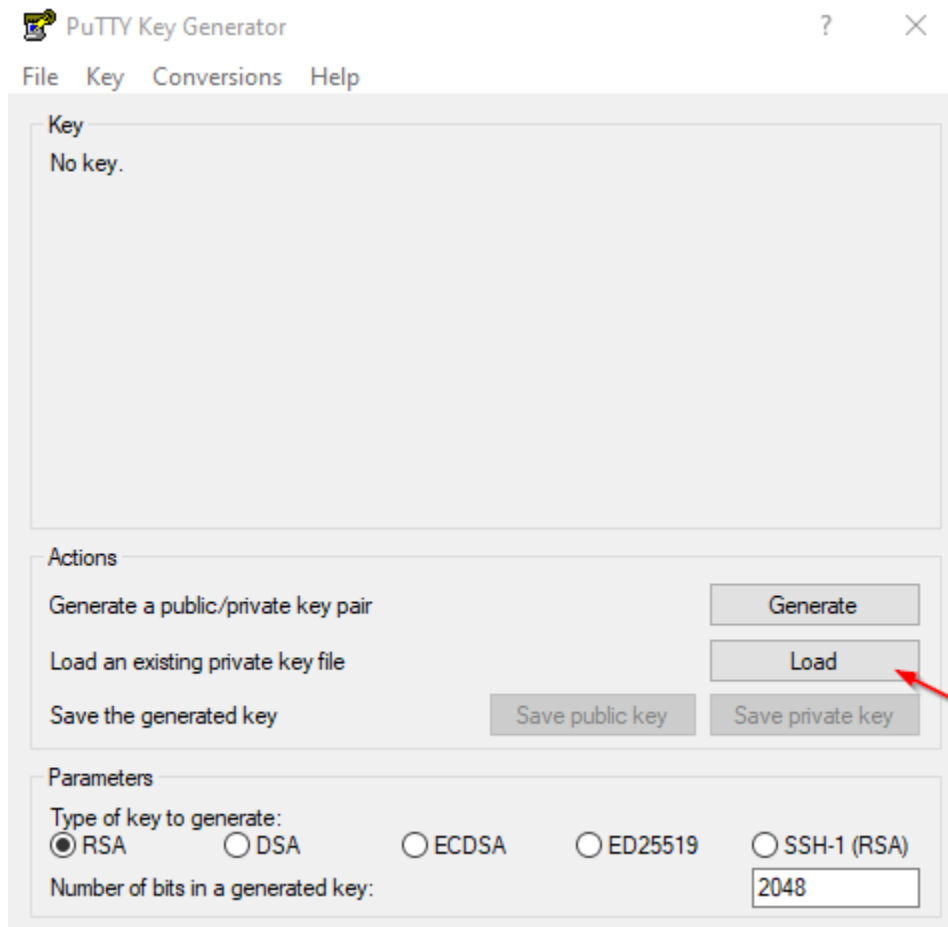
Doppa2020-kafka.pem [Show all](#)

The screenshot shows the AWS Management Console interface. On the left, the navigation menu includes 'New EC2 Experience', 'EC2 Dashboard', 'Events', 'Tags', 'Reports', 'Limits', 'INSTANCES', 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', 'Capacity Reservations', and 'IMAGES'. The main content area displays a table of EC2 instances. The instance 'i-0f5e10498da022865' is selected. Below the table, the instance details are shown, including the Public DNS (IPv4) address 'ec2-13-127-149-233.ap-south-1.compute.amazonaws.com'. A tooltip 'Copy to clipboard' is visible over the Public DNS (IPv4) field.

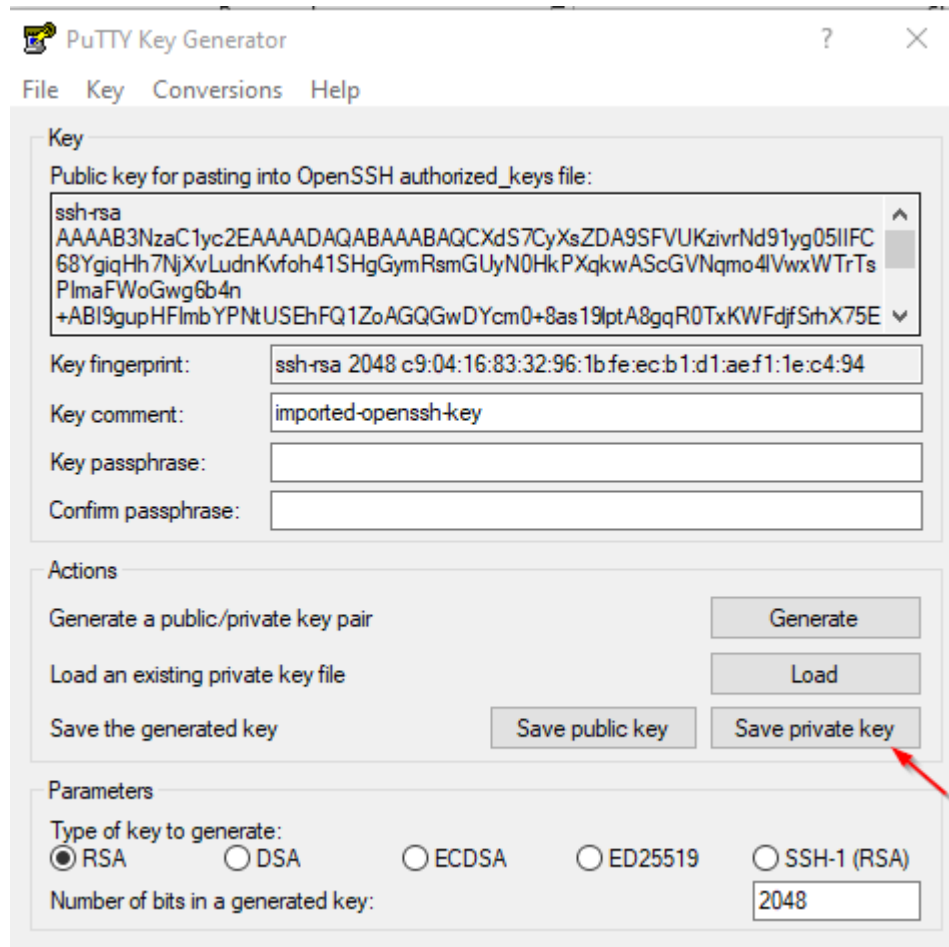
Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
	i-01bc957e7d6d567a9	t2.medium	ap-south-1a	running	2/2 checks ...	None	ec2-13-234-226-165.ap...
	i-059abb620a12825fe	t2.medium	ap-south-1a	running	2/2 checks ...	None	ec2-13-234-239-111.ap...
	i-0de92d5fea00b7917	t2.medium	ap-south-1a	running	2/2 checks ...	None	ec2-35-154-65-85.ap-s...
	i-0f5e10498da022865	t2.medium	ap-south-1a	running	2/2 checks ...	None	ec2-13-127-149-233.ap...

Step 9: Generate the ppk file using the .pem file that we download using PuTTYgen.

- Load the .pem file we downloaded from AWS



- b. Save the private key (.ppk file) generated by PuTTYgen using .pem file.



Step 10: Connect the AWS instance using MobaXterm(ssh client tool)

