





Create Amazon Machine Image with Linux OS by *kvreddi*

STEP#1: Login to Amazon Web Service Console

Amazon Web Services






Compute

-  **EC2**
Virtual Servers in the Cloud
-  **EC2 Container Service**
Run and Manage Docker Containers
-  **Elastic Beanstalk**
Run and Manage Web Apps
-  **Lambda**
Run Code in Response to Events




Storage & Content Delivery

-  **S3**
Scalable Storage in the Cloud
-  **CloudFront**
Global Content Delivery Network
-  **Elastic File System** PREVIEW
Fully Managed File System for EC2
-  **Glacier**
Archive Storage in the Cloud
-  **Import/Export Snowball**
Large Scale Data Transport
-  **Storage Gateway**
Hybrid Storage Integration


Database

-  **RDS**
Managed Relational Database Service
-  **DynamoDB**
Managed NoSQL Database
-  **ElastiCache**
In-Memory Cache
-  **Redshift**
Fast, Simple, Cost-Effective Data Warehousing
-  **DMS**
Managed Database Migration Service








Networking

-  **VPC**
Isolated Cloud Resources
-  **Direct Connect**
Dedicated Network Connection to AWS
-  **Route 53**
Scalable DNS and Domain Name Registration






Developer Tools

-  **CodeCommit**
Store Code in Private Git Repositories
-  **CodeDeploy**
Automate Code Deployments
-  **CodePipeline**
Release Software using Continuous Delivery





Management Tools

-  **CloudWatch**
Monitor Resources and Applications
-  **CloudFormation**
Create and Manage Resources with Templates
-  **CloudTrail**
Track User Activity and API Usage
-  **Config**
Track Resource Inventory and Changes
-  **OpsWorks**
Automate Operations with Chef
-  **Service Catalog**
Create and Use Standardized Products
-  **Trusted Advisor**
Optimize Performance and Security

Security & Identity

-  **Identity & Access Management**
Manage User Access and Encryption Keys
-  **Directory Service**
Host and Manage Active Directory
-  **Inspector** PREVIEW
Analyze Application Security
-  **WAF**
Filter Malicious Web Traffic
-  **Certificate Manager**
Provision, Manage, and Deploy SSL/TLS Certificates


Analytics

-  **EMR**
Managed Hadoop Framework
-  **Data Pipeline**
Orchestration for Data-Driven Workflows
-  **Elasticsearch Service**
Run and Scale Elasticsearch Clusters
-  **Kinesis**






Internet of Things

-  **AWS IoT**
Connect Devices to the Cloud








Game Development

-  **GameLift**
Deploy and Scale Session-based Multiplayer Games




Mobile Services

-  **Mobile Hub**
Build, Test, and Monitor Mobile Apps
-  **Cognito**
User Identity and App Data Synchronization
-  **Device Farm**
Test Android, FireOS, and iOS Apps on Real Devices in the Cloud
-  **Mobile Analytics**
Collect, View and Export App Analytics
-  **SNS**
Push Notification Service

Application Services

-  **API Gateway**
Build, Deploy and Manage APIs
-  **AppStream**
Low Latency Application Streaming
-  **CloudSearch**
Managed Search Service
-  **Elastic Transcoder**
Easy-to-Use Scalable Media Transcoding
-  **SES**
Email Sending and Receiving Service
-  **SQS**
Message Queue Service
-  **SWF**
Workflow Service for Coordinating Application Components

Enterprise Applications

-  **WorkSpaces**
Desktops in the Cloud
-  **WorkDocs**
Secure Enterprise Storage and Sharing Service
-  **WorkMail**
Secure Email and Calendaring Service

The AWS Management Console is a web control panel for managing all your AWS resources, from EC2 instances. The Console enables cloud management for all aspects of the AWS account, including managing security credentials, or even setting up new IAM Users.

STEP#2: Select the right AWS Region

Amazon Web Services is available in different Regions all over the world and the Console lets you provision resources across multiple regions. You usually choose a region that best suits your business needs to optimize your customer's experience.

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N. California ▲

US East (N. Virginia)

US West (N. California)

US West (Oregon)

EU (Ireland)

EU (Frankfurt)

Asia Pacific (Tokyo)

Asia Pacific (Seoul)

Asia Pacific (Singapore)

Asia Pacific (Sydney)

South America (São Paulo)

Create an AMI starting from an EBS-backed instance

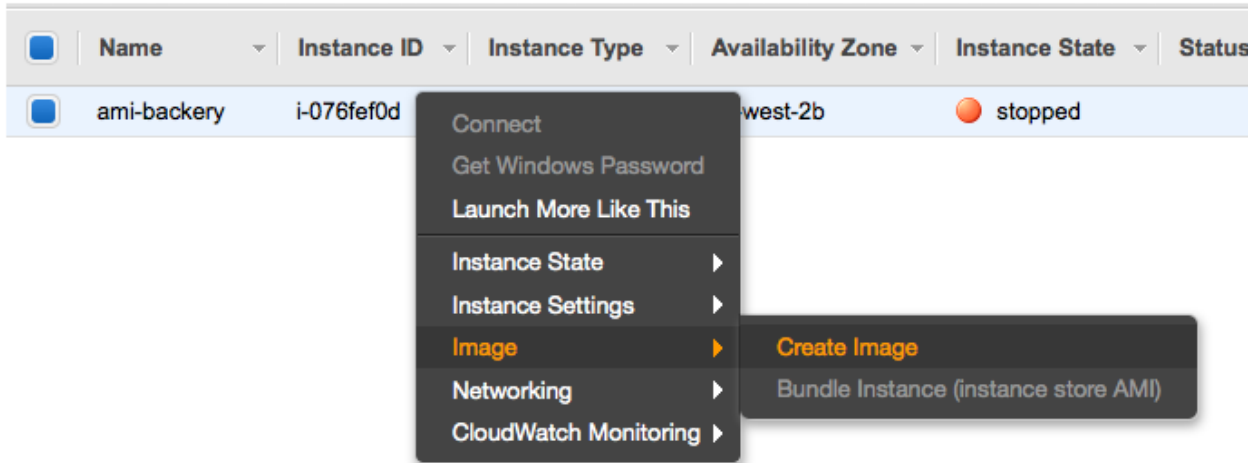
An AMI contains all information necessary to boot an Amazon EC2 instance with your software. An AMI is like a virtual machine template and it might contain custom software, standard system packages or any other file added by the AMI author. Creating your own AMI is a crucial operation if you have to build a clustered infrastructure that uses the EC2 Autoscaling Group feature.

AWS Auto Scaling needs self-configurable instances in order to automatically scale up or down your cluster according to the specified policies. Your AMI becomes the basic unit of deployment; it enables you to rapidly boot new custom instances as you need them.

All AMIs are categorized as either backed by Amazon EBS or backed by instance store. The former means that the root device for an instance launched from the AMI is an Amazon EBS volume created from an Amazon EBS snapshot. The latter means that the root device for an instance launched from the AMI is an instance store volume created from a template stored in Amazon S3. You can implement Amazon EBS backed AMIs by creating a set of snapshots and registering an AMI that uses those snapshots. The AMI publisher controls the default size of the root device through the size of the snapshot.

Creating an AMI from an EBS-backed instance is an easy and automated task.

- Go to the Instances section of the EC2 Console
- Locate the previously created instance, select it and then right click on it.
- Select Image submenu and click on Create Image.



Enter the Image name, the Image description and check the Instances Volumes configuration. You can choose to add more volumes of different types and sizes.

When you have been finished, click on **Create Image** blue button.

Create Image

Instance ID ⓘ i-076fef0d

Image name ⓘ cloudacademy-labs-webserver-basic

Image description ⓘ Ubuntu image with nginx, php, git, awscli

No reboot ⓘ ☐

Instance Volumes

Type ⓘ	Device ⓘ	Snapshot ⓘ	Size (GiB) ⓘ	Volume Type ⓘ	IOPS ⓘ	Delete on Termination ⓘ	Encrypted ⓘ
Root	/dev/sda1	snap-ddd48814	8	General Purpose (SSD) ⌵	24 / 3000	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

Total size of EBS Volumes: 8 GiB

When you create an EBS image, an EBS snapshot will also be created for each of the above volumes.

Cancel

Create Image

The AMI creation takes some minutes to be processed, because AWS has to create an EBS snapshot and then register the newly created AMI. You can check the status by going to the Snapshot section and then to the AMI section.

Create Snapshot

Actions

Owned By Me

<input type="checkbox"/>	Name	Snapshot ID	Size	Description	Status
		snap-a1fc262d	8 GiB	Created by CreateImage(i-076fef0d) for ami-d1792ee1 from vol...	pending

Launch

Actions

Owned by me

<input type="checkbox"/>	Name	AMI Name	AMI ID	Source	Owner	Visibility	Status	Platform	Root Devi
<input type="checkbox"/>						Private	available	Other Linux	ebs
		cloudacademy-lab...	ami-d1792ee1	/clouda...		Private	pending	Other Linux	ebs

When the AMI status switches from pending to available, you are able to create new EC2 instances by using it.

Make public an AMI

After the creation of an AMI, you are the only user able to use it during the EC2 launching process. If you want to allow the deployment of new EC2 instances starting from your AMI, you have to edit the Image permissions.

Select your AMI, click on the **Permissions** Tab and then on the Edit button.

You can choose to make it publicly available or to allow its usage only to a restricted set of AWS accounts.

cloudacademy-lab... ami-d1792ee1 /clouda... Private

Image: ami-d1792ee1

Details

Permissions

Tags

This image is currently Private.

AWS Account Number

This image currently has no permissions

Edit

Modify Image Permissions

This image is currently:

☒ Public ☐ Private

Cancel

Save



About us

SUVEN IT established in 01-Jan--2010 by **Mr. kvreddi** having 20 years teaching and 17 years of real time work experience across USA & India, We are recognized as a leader in all IT training Courses to supply quality IT Professionals to Industry. SUVEN IT committed to provide high quality service with elevated level of student's satisfaction and provides the high end industry training and real time knowledge to students.

**We trained and placed 3000+ Students in top MNC's within 6 Years
(Most of them are selected in first interview)**

Our success rate is 99.2%



*By
Kvreddi*