Compute Services

2019年2月10日 星期日 上午1:04

What is Elastic Compute Cloud (EC2)?

ECC

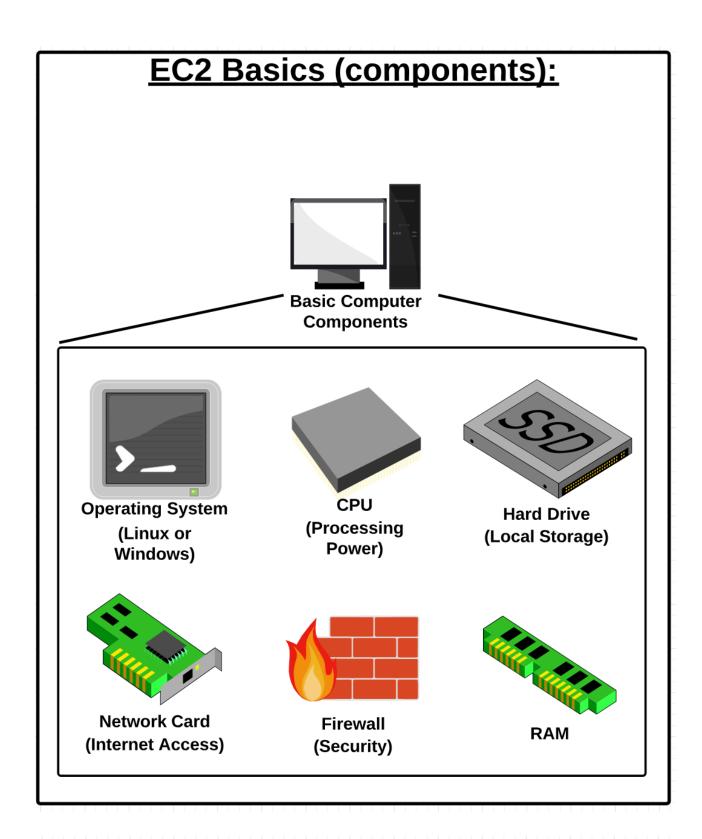
Simplified Definition:

Think of EC2 as your basic desktop computer.

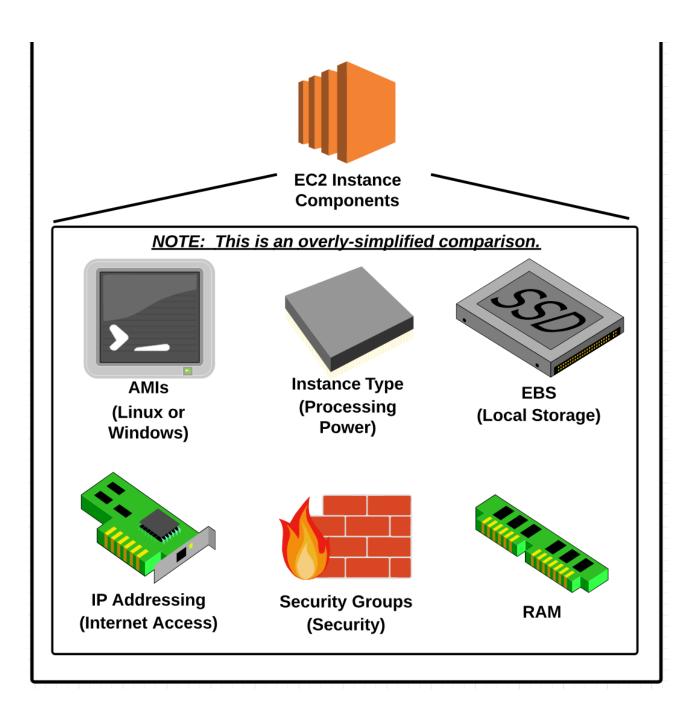
AWS Definition:

"Amazon Elastic Compute Cloud (Amazon EC2) provides *scalable computing capacity* in the Amazon Web Services (AWS) cloud. Using Amazon EC2 eliminates your need to invest in hardware up front, so you can develop and deploy applications faster. You can use Amazon EC2 to *launch as many or as few virtual servers as you need*, configure security and networking, and manage storage. Amazon EC2 enables you to scale up or down to handle changes in requirements or spikes in popularity, reducing your need to forecast traffic."





EC2 Basics (components):



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AMI Options:

AMIs come in three main categories:

(1) Community AMIs:

-Free to use

-Generally, with these AMIs you are just selecting the OS you want.

(2) AWS Marketplace AMIs:

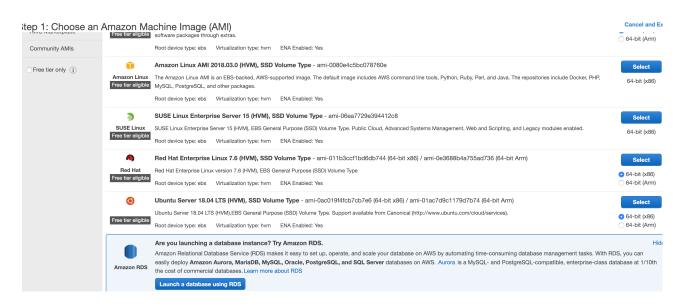
- -Pay to use
- -Generally comes packaged with additional, licensed software.

(3) My AMIs:

-AMIs that you create yourself

Instance Type Options:

- (1) General purpose
- (2) Compute optimized
- (3) GPU optimized
- (4) Memory optimized
- (5) Storage optimized



Step 1: Choose an Amazon Machine Image (AMI)

Q Search for an AMI by entering a search term e.g. "Windows"

My AMIs

AWS Marketplace

Community AMIs

Categories

All Categories

Infrastructure Software (2563)

Developer Tools (571)

Business Software (1059)

Wawsmarketplace

Find and buy software that runs in the AWS Cloud, software from trusted vendors like SAP, Zend, Microsoft, as well as n Marketplace AMI products. View Marketplace products you are currently subscribed to by visiting Your Software in the

Featured Software





Rating ★★★★ By Barracuda Networks,

Inc. Starting from \$0.60/hr or from \$4,599/yr (12% JUNIPER. NETWORKS

vSRX Next Generation Firewall

By Juniper Networks \$0.55/hr or \$2,280/yr (53% savings) for software



Matillion ETL for Amazon Redshift

Rating *****

By Matillion

Starting from \$1.37/hr or from \$9,950/yr (17% savings) for software



Trend Micro Deep

Rating ★★★★★

Security

By Trend Micro Starting from \$0.01 per host/hr for software usage

Popular Software

savings) for software



F5 BIG-IP Virtual



CentOS 7.2 LAMP



SoftNAS Cloud



F5 BIG-IP Virtual

EC2 Basics (buying options)

On-Demand:

On-demand purchasing allows you to choose any *instance type* you like and provision/terminate it at any time (on-demand).

- (1) Is the *most expensive* purchasing option.
- (2) Is the **most flexible** purchasing option.
- (3) You are only charged when the instance is *running* (and billed by the second).
- (4) You can provision/terminate an on-demand instance at any time.

Reserved?

Reserved purchasing allows you to purchase an instance for a **set time period** of one (1) or three (3) years.

- (1) This allows for a **significant price discount** over using on-demand.
- (2) You can select to pay upfront, partial upfront, no upfront.
- (3) Once you buy a reserved instance, you own it for the selected time period and are **responsible for the entire price** regardless of how often you use it.

Spot:

Even × Use, still pay

Spot pricing is a way for you to "bid" on an instance type and only pay for and use that instance when the spot price is equal to or below your "bid" price.

(1) This option allows Amazon to sell the use of *unused instances*, for short amounts of time, at a *substantial discount*.

- (2) **Spot prices fluctuate** based on supply and demand in the spot marketplace.
- (3) You are charged by the second but bid pricing based on and hourly rate)
- (4) When you have an active bid, an instance is **provisioned for you when the** spot price is equal to or less than you bid price.
- (5) Provisioned instances automatically terminate when the spot price is greater than your bid price.

Full list of Instance Purchasing Options:

https://aws.amazon.com/ec2/pricing/