



BATCH : BATCH 85
LESSON : AWS
DATE : 03.08.2022
SUBJECT : AMAZON EC2



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EC2

What is EC2 ?

- ✔ EC2 stands for Amazon Elastic Compute Cloud.
- ✔ EC2 is a web service that provides secure, resizable compute capacity in the cloud.
- ✔ It is a service that allows you to run application programs in the computing environment.



EC2

EC2 Features:

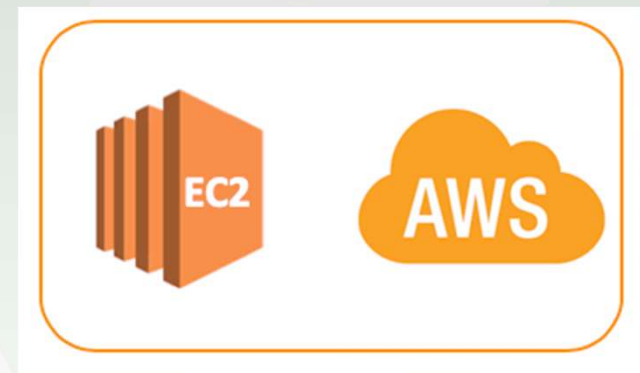
- ✔ EC2 provides you to pay only for the resources that you actually use.
- ✔ In the past, creating a server for our business sometimes takes days, weeks, but now within 2 seconds, we can create a virtual machine that suits our wishes.
- ✔ If you use EC2 you don't have to buy physical servers. Instead, you select a server that has more CPU capacity, RAM capacity and you can buy a server for a 5-year term. So it means you can plan for 5 years in advance.



EC2

Advantage of EC2:

- ▶ EC2 provides you to pay only for the resources that you actually use.
- ✔ Elasticity
- ✔ Control
- ✔ Reliability





EC2

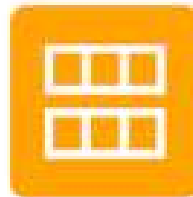
EC2 Basic Components:



AWS EC2



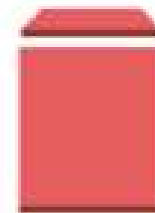
Security Group



Amazon AMI



Instance Block
Storage



EBS



EC2

EC2 Basic Components:

aws

Services

Search for services, features, marketplace products, and docs

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Support

New EC2 Experience

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

Images

Elastic Block Store

Network & Security

Load Balancing

Auto Scaling

Instances (5)

Filter instances

Refresh

Connect

Instance state

Actions

Launch instances

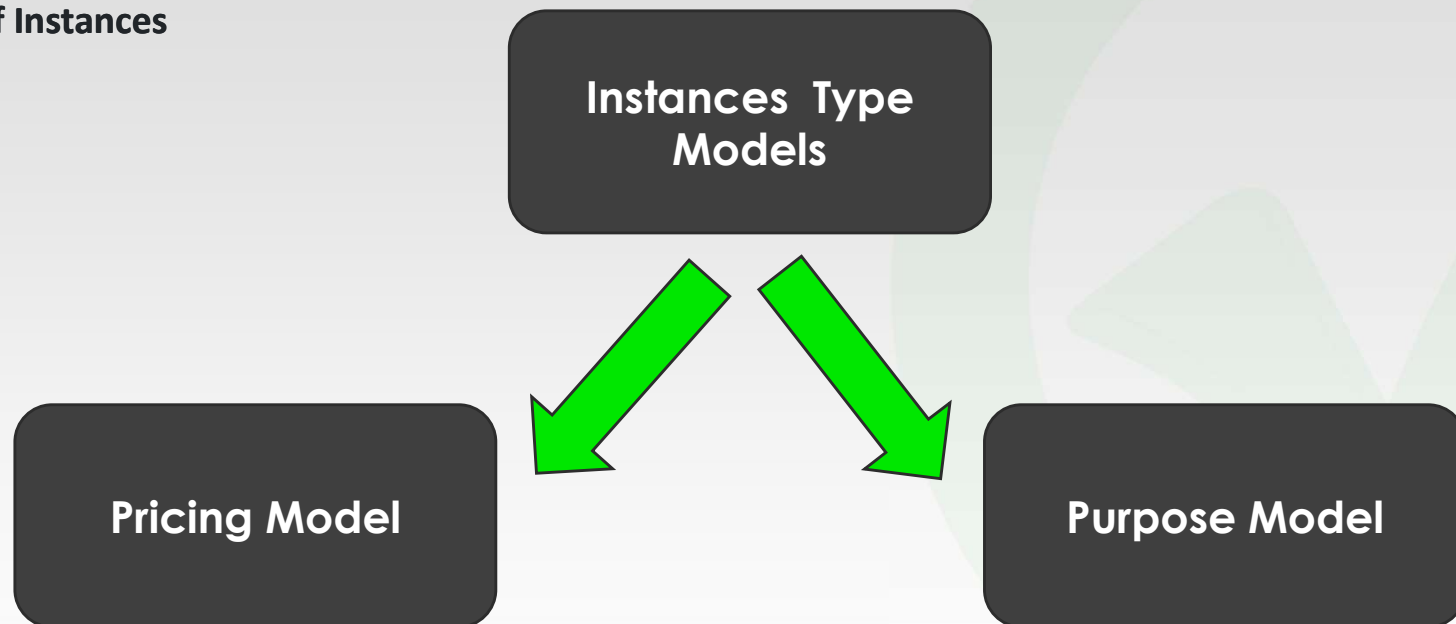
	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	Jenkins Server of linnbank	i-0d9559351705aafeb	Running	t3.medium	2/2 checks passed	No alarms	us-east-1d
<input type="checkbox"/>	privatedb	i-0705f8a7ca84778bc	Stopped	t2.micro	-	No alarms	us-east-1a
<input type="checkbox"/>	techproWEB	i-054d8b5ac41bc00ee	Stopped	t3.medium	-	No alarms	us-east-1a
<input type="checkbox"/>	MTD Bank	i-088a47afcc111e281	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a
<input type="checkbox"/>	Jenkins Server of linn-bank	i-0c700bbbd9d86c1fe	Running	t2.medium	2/2 checks passed	No alarms	us-east-1b

Select an instance above



EC2

EC2 Type of Instances





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EC2 Pricing Model

EC2

On Demand

Reserved

Spot

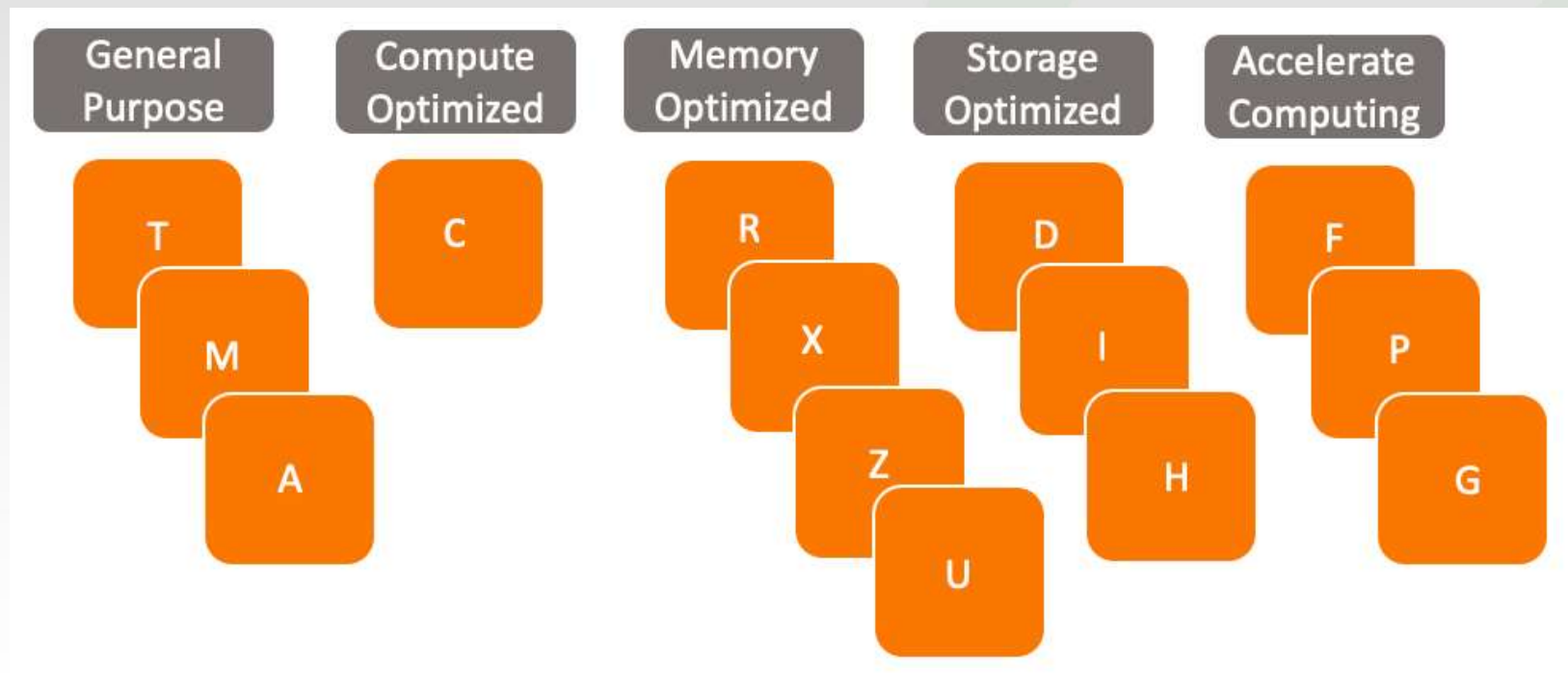
Dedicated
Host/Instance

Saving Plans



EC2

EC2 Purpose Model





EC2

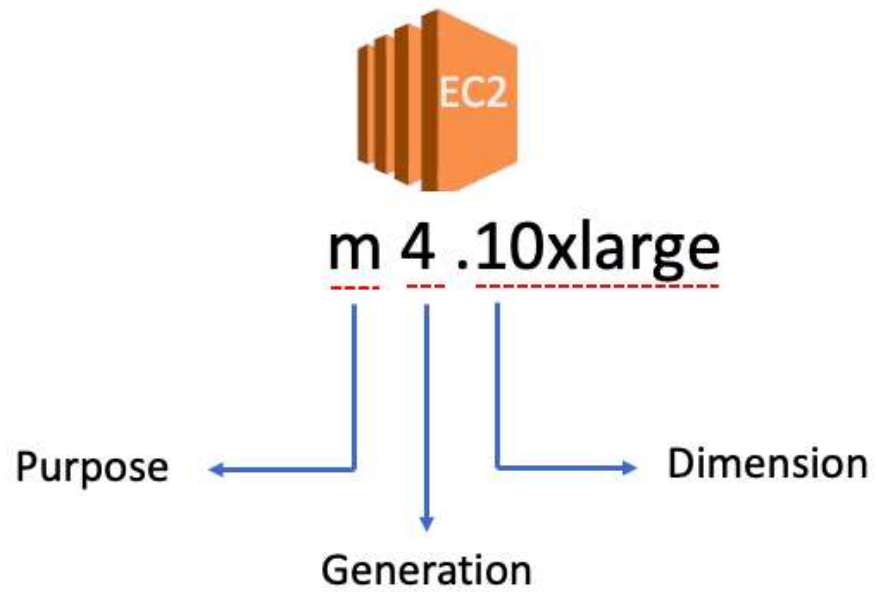
EC2 Instances

	General Purpose		Compute Optimized	Memory Optimized		Accelerated Computing	Storage Optimized		
Type	t2	m5	c5	r4	x1e	p3	h1	i3	d2
Description	Burstable, good for changing workloads	Balanced, good for consistent workloads	High ratio of compute to memory	Good for in-memory databases	Good for full in-memory applications	Good for graphics processing and other GPU uses	HDD backed, balance of compute and memory	SDD backed, balance of compute and memory	Highest disk ratio
Mnemonic	t is for tiny or turbo	m is for main or happy medium	c is for compute	r is for RAM	x is for xtreme	p is for pictures	h is for HDD	i is for IOPS	d is for dense



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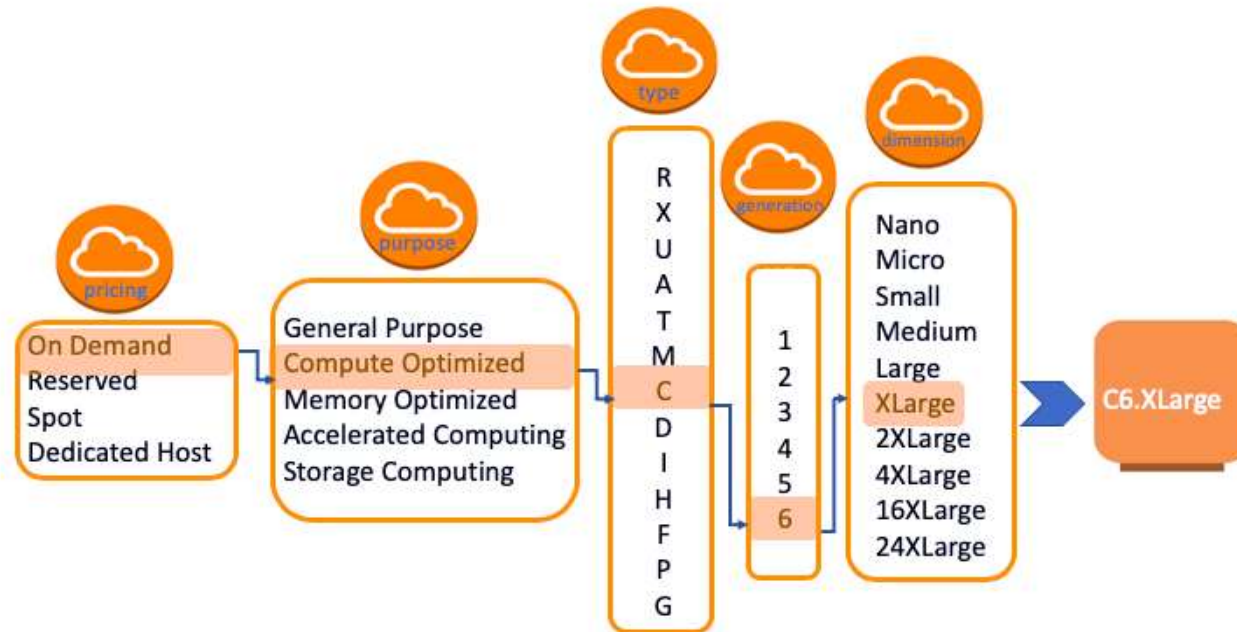
EC2 Code Definition of Instance Type

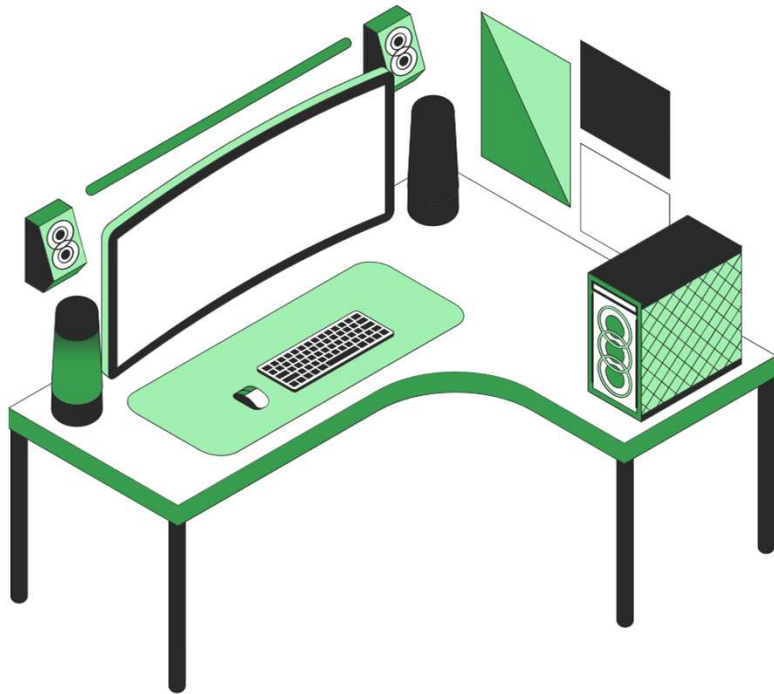




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EC2 Code Definition of Instance Type





Do you have any questions?

Send it to us! We hope you learned something new.



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