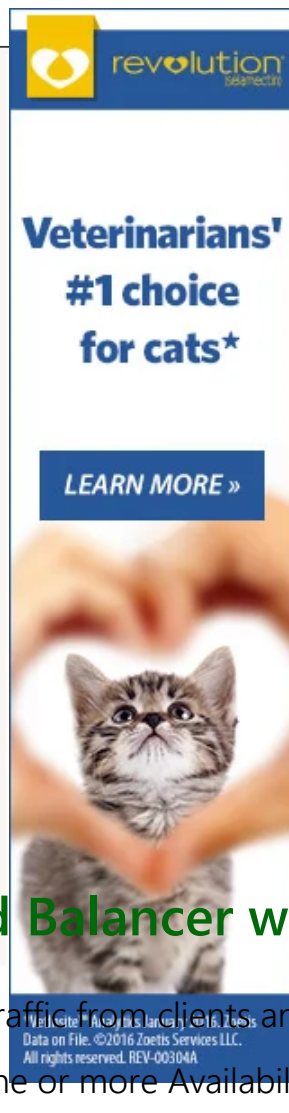


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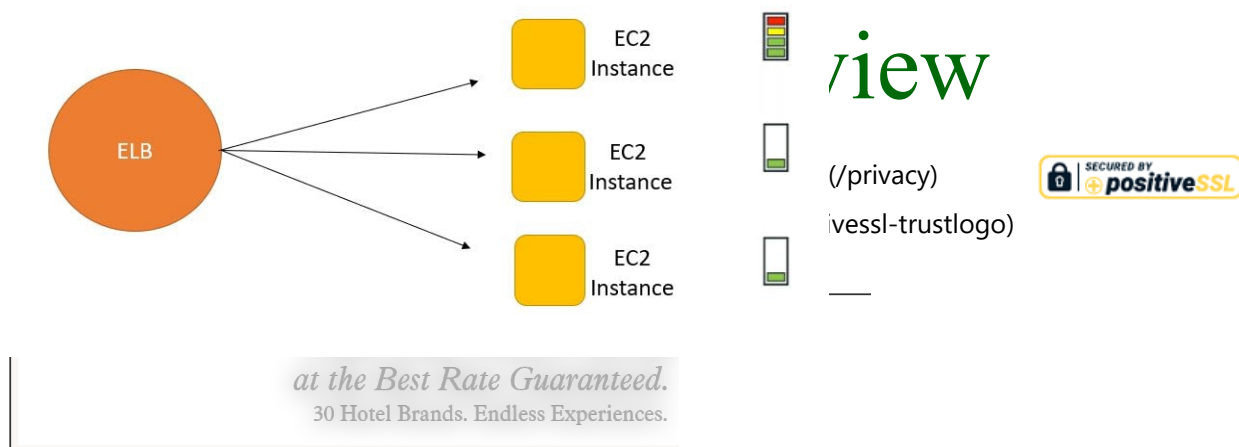
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## How does Elastic Load Balancer work?

A load balancer accepts incoming traffic from clients and routes requests to its registered targets (such as EC2 instances) in one or more Availability Zones. It then resumes routing traffic to that target when it detects that the target is healthy again.



In this post we will look at CI CD DevOps Interview questions. Examples are provided with explanations.

## What is S3? What is it used for?

Amazon Simple Storage Service is storage for the Internet. It is designed to make web-scale computing easier for developers. Amazon S3 has a simple web services interface that you can use to store and retrieve any amount of data, at any time, from anywhere on the web.

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industry-leading scalability, data availability, security, and performance.



# Amazon EC2

## What is EC2?

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## What is the difference between terminating and stopping an EC2 instance?

## What are the features of Amazon EC2?

- **Bare Metal Instances** As Amazon EC2 offers different instance types, you can choose an instance type that provides direct access to the processor and memory of the underlying server. Bare metal instances are available for Linux, Windows, and SUSE Linux Enterprise Server. When you stop a bare metal instance, the hardware is powered off and the hardware is protected against tampering. The hardware is not shared with other instances. The hardware is not shared with other instances. The hardware is not shared with other instances.
- **Stop and Start Your Instances** When you stop an instance, the instance is powered off and the hardware is protected against tampering. The hardware is not shared with other instances. The hardware is not shared with other instances. The hardware is not shared with other instances.
- **Pause and Resume Your Instances** You can pause an instance to save costs while you are not using it. When you resume an instance, the instance is powered on and the hardware is protected against tampering. The hardware is not shared with other instances. The hardware is not shared with other instances. The hardware is not shared with other instances.
- **High I/O Instances** Amazon EC2 offers different instance types that are optimized for high I/O. These instances are available for Linux, Windows, and SUSE Linux Enterprise Server. When you stop a high I/O instance, the hardware is powered off and the hardware is protected against tampering. The hardware is not shared with other instances. The hardware is not shared with other instances. The hardware is not shared with other instances.

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## What is auto-scaling?

workloads. High I/O instances also offer sequential disk throughput up to 16 GB/s, which is ideal for analytics workloads. Amazon EC2 Auto Scaling helps you maintain application availability and allows you to automatically add or remove EC2 instances according to conditions you define. Dynamic scaling responds to changing demand and predictive scaling automatically schedules the right number of EC2 instances based on predicted demand.

**Flexible Storage Options**- Amazon EBS provides persistent, highly available, consistent, low-latency block storage volumes for use with Amazon EC2 instances. Each Amazon EBS volume is automatically replicated within its Availability Zone to protect you from component failure, offering high availability and durability. It is designed for applications that require consistent performance and capacity, performance and cost.

Amazon EC2 provides you with flexible, cost effective, and easy-to-use data storage options for your instances. Each option has a unique combination of performance and durability. These storage options can be used independently or in combination to suit your particular instance, and you control that address until you choose to explicitly release it.

These storage options include the following:

**Elastic IP Addresses**- Elastic IP addresses are static IP addresses designed for dynamic cloud computing. An Elastic IP address is associated with your account not a particular instance, and you control that address until you choose to explicitly release it.

**Enhanced Networking**- This feature uses a new network virtualization stack that provides higher I/O performance and lower CPU utilization compared to traditional implementations. In order to take advantage of Enhanced Networking, you should launch an HVM AMI in VPC, and install the appropriate driver. Amazon EBS is the recommended storage option when you run a database on an instance.

Amazon EBS- Amazon EBS provides durable, block-level storage volumes that you can attach to a running instance. You can use Amazon EBS as a primary storage device for data that requires frequent and granular updates. For example, Amazon EBS is the recommended storage option when you run a database on an instance.

- **Amazon EC2 instance store**- This disk storage is referred to as instance store. Instance store provides temporary block-level storage for instances. The data on an instance store volume persists only during the life of the associated instance; if you stop, hibernate, or terminate an instance, any data on instance store volumes is lost.

- **Amazon EFS file system**- Amazon EFS provides scalable file storage for use with Amazon EC2. You can create an EFS file system and configure your instances to mount the file system.

Amazon Elastic Block Store (EBS) is an easy to use, high-performance, block-storage service designed for use with Amazon Elastic Compute Cloud (EC2) for both throughput and transaction intensive workloads at any scale. A broad range of workloads, such as relational store and retrieve any amount of data, at any time, from within Amazon EC2 or and non-relational databases, enterprise applications, containerized applications, big data analytics engines, file systems, and media workflows are widely deployed on Amazon EBS.

- **Adding storage**- The root storage device contains all the information necessary to boot the instance. You can specify storage volumes in addition to the root device

## Explain Elastic Block Storage?

Amazon Elastic Block Store (EBS) is an easy to use, high-performance, block-storage service designed for use with Amazon Elastic Compute Cloud (EC2) for both throughput and transaction intensive workloads at any scale. A broad range of workloads, such as relational store and retrieve any amount of data, at any time, from within Amazon EC2 or and non-relational databases, enterprise applications, containerized applications, big data analytics engines, file systems, and media workflows are widely deployed on Amazon EBS.

**Adding storage**- The root storage device contains all the information necessary to boot the instance. You can specify storage volumes in addition to the root device

volume when you create an AMI or launch an instance using block device mapping.

## What is WorkSpaces in AWS EC2?

Amazon WorkSpaces is a managed, secure Desktop-as-a-Service (DaaS) solution. You can use Amazon WorkSpaces to provision either Windows or Linux desktops in just a few minutes and quickly scale to provide thousands of desktops to workers across the globe. A Workspace is available as a bundle of operating system, compute resources, storage space, and software applications that allow a user to perform day-to-day tasks just like using a traditional desktop.

## How To Connect To Your Amazon Ec2 Instance?

Following are the steps to connect to a Linux instance:

- Install PuTTY on your local machine.
- Get your instance ID.
- Get the public DNS name of the instance.
- Locate the private key.
- Enable inbound SSH traffic from your IP address to your instance.
- Converting Your Private Key Using PuTTYgen.
- Starting a PuTTY Session.
- Now you are connected to your EC2 instance.

## What Is Amazon Machine Image (ami) ?

An Amazon Machine Image (AMI) provides the information required to launch an instance. You must specify an AMI when you launch an instance. You can launch multiple instances from a single AMI when you need multiple instances with the same configuration. You can use different AMIs to launch instances when you need instances with different

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configurations.

## What Is Public Key Credentials?

A public key credential is created and stored by an authenticator at the behest of a WebAuthn Relying Party, subject to user consent. Subsequently, the public key credential can only be accessed by origins belonging to that Relying Party.

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