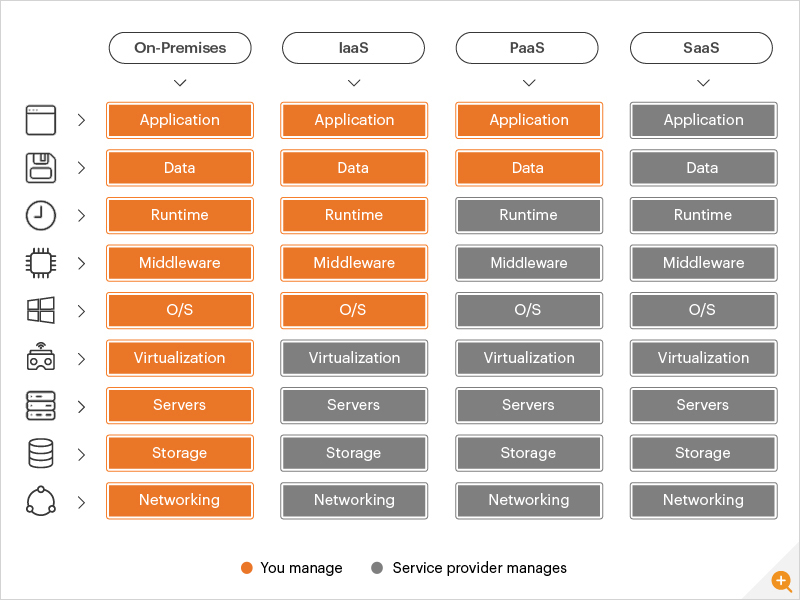
**AWS Intro**

**Cloud Computing**  
               Cloud computing is the on-demand delivery of IT resources over the Internet with pay-as-you-go pricing. Instead of buying, owning, and maintaining physical data centers and servers, you can access technology services, such as computing power, storage, and databases, on an as-needed basis from a cloud provider.

**Top Cloud Providers**  
               Amazon Web Services (AWS)  
               Google Cloud Platform (GCP)  
               Microsoft Azure

**On Prem**  
               An on-premises data center is a group of servers that you privately own and control.  
               **"On-prem"** refers to private data centers that companies house in their own facilities and maintain themselves.

**On Prem vs Cloud Models (IaaS, PaaS, SaaS)**



**Infrastructure as a Service** provides you with the highest level of flexibility and management control over your IT resources and is most similar to existing IT resources that many IT departments and developers are familiar with today.

**Platforms as a Service** remove the need for organizations to manage the underlying infrastructure (usually hardware and operating systems) and allow you to focus on the deployment and management of your applications

**Software as a Service** provides you with a completed product that is run and managed by the service provider.

![A screenshot of a computer model

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RCQRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAUAAAQdOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFuaXJ1ZGggVgAAAeocAAcAAAgMAAAIZgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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oooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKjuLiK1t5J7h1jijUs7scACvL7vxHr/xHvpdO8HM2n6PExS41IjBk9Qh/wppXEd1P4v0K31qDSW1CJr6dtqQpljn3I4FYfiPWfG6a7JYeG9Dge2UKRfTS/KSR024zxV7wv8PtE8MKJIYPtN6eXu7j55GPrk9PwrqKNAPOF0v4q3Hzz6zpEHoscbfrxQ+m/FW0G+DV9IucdUeNsn6cV6PRTuFjzM+OvGegN/xU3hV57dR81zZOG/Ja6nw9490DxL8ljeCO5H3racbJF/A10ZGRg8iuQ8T/AA20TxFm4ji/s/UF5ju7U7GU+vHBo0YanX0V5dpvizW/AepQ6N47JuLGQ7LfVVHHsG/+vzXp8Usc8KSwuHjcBlZTkEUmrAOooopDCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAoorP1LXdO0kgX10kbHoucn8quEJTfLFXYm0ldmhRWfpuvadqxIsblJGH8OcN+VaFE4Sg+WSswTTV0FFNllSGNpJXVEUZZmOAKxf+Ey0Pz/ACvtyZzjPb86qFGpU+CLfoKUox3ZuUU2KVJolkhdXRhkMpyDTqz2KCiiikAUUUUAFFFeeeIfiHc3OrP4f8DW39o6mDtlnxmKD6npTSuI72W8toJo4pp40kkOERmALH2Fcn4l+Ikehas2l22jahf3agH9zENnIz97NUfD3w0aLVItb8V6ncapqiHeuXKxxN/sgV34RQxYKAx6nHJo0QHm48dePJvntPh+7xdi92qn8qP+E78dwfPe+AHSLuUu1Y/lXpNFO67BY89s/jBpIlEOvaff6Q4OGe4h/dj8Rmu203V9P1e3E+mXkVzGRnMbZ/TqKkvNPs9QiMd9aw3KH+GWMMP1rgNW+FQs7ptS8DX82j3oO7yVcmGQ+4P/AOqjRhqej0V5/wCGviHOurL4f8a2w03VeFjkPEdx6EHpzXoFJqwBRRRSGFFFFABRRRQAUUUUAFFFVdT1O00fTpb7UZlgt4hlnY4oAtUV5tonxhstQ10W2o2U2n2F022wvJkKrN9SeK9JBDKGU5BGQR3ptWEFFFFIYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRUVzcw2drJcXUqxQxqWd3OAoHevMZ/EniX4iXkln4N/4lujxtsk1J1+aT1C5/pTSuI9IutW0+xB+2X1vDjqHlAP5VUvPEum2mkNqSTC6t1cITbkNye3WuVsPg54fQCTXJLrWbjqZLqduv4EVx/hOJIPhlrUMQ2xx686KPQDaAK6cNSjVrRhLZtGdSTjBtHp1v430qVgtx59pn/nvGR/LNb0FzDdRCS3lWRD0KnNRTWFpeQ7bm2ilDDncgNcxe6BeeHpG1Dw27GNfmks2OVYd8VqoYes+WF4vz1X39Cb1IavVHYUVn6Lq8GtactzBwejoeqN6VoVxzhKEnGSs0bJpq6CiiioGFFFcN4j+Jtlp2of2ToNu+s6q3HkW43BD/tEU7XEdz061Rudb0u0BNzqFrFjjDSrn8qxdNste1/wpc2vizGn3NyTtNlJho1zkc561mWfwe8KQfNfW82oTf89bmdyT+RxRoBu/8Jx4Z3Y/tq1znH3q0LbXNLvB/ouo2svssq5/Ksb/AIVx4S2bf7Ft8Yx3/wAazLv4P+E5stZ2s1hMf+WtvO4I/XFPQNTugcjI5FFeYnwj428KN5vhjXm1W2Xk2d+QzN/wI1qeH/ifaXuoDSfEds+i6rnb5U4Ko5/2Sf0ot2C53VFAORkdKKkYUUUUAFFFFABRRVLVNXs9GtRPqEvloTgYGST7CqjGU5csVdibSV2XaK5r/hYHh/8A5+ZP+/Lf4Uf8LA8P/wDPzJ/35b/Cur6jiv8An2/uZn7an/MjpaK5r/hYHh//AJ+ZP+/Lf4Uf8LA8P/8APzJ/35b/AAo+o4r/AJ9v7mHtqf8AMjpaK5r/AIWB4f8A+fmT/vy3+FH/AAsDw/8A8/Mn/flv8KPqOK/59v7mHtqf8yOlormv+FgeH/8An5k/78t/hT4PHWg3E6RJdMGc4BaNgPzNJ4LEpXdN/cw9tT/mR0VFHWiuQ1CiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiio5riG2TfcTRxL/ekYKP1oAkoJwMmsw+JdCUkNrWnAjqDdp/jXL/ABC8a29j4Ukj0C9gur+9b7PALeZXYE8Z4PanYRb1H+x/iRYXukWt/OiWdwq3Bi4D4zxnuDXS6Xpdno2nRWOnQrDBCu1VUfqfesjwN4Yi8KeFrawUAzkb7hx/G56muioYBRRRSGFFFFABRRRQBR1jRrHXdMmsNTgWaCVcEEcj3HvXnnhTUb7wJ4p/4RDXpDJp9wc6ZdN7n7hr1GuA+MEWlSeDXkv7pLa9gPmWTZ+cyDsMc88VS7CZ39FeNaN4h+Jvi/TreLTLSLSoFQJLezpgyHHUA8/kK1rT4YeJpsvq3jzVEkPa0mbb+uKLdwuen0V5fc/DTxZayCTRvHWoSOvOL2Vip/AZqq3jjxr4JmC+NdK/tCwzj7baKOB64HT8aLdguetUVmaD4i0zxLpqXukXSTxsOQD8yH0I6itOpGFFFFABTZJEiXdI6ovqxxTbqcW1pNOwyIkZyB3wM1w9hpd940zf6tdPHYlsRW6HG4CuuhQVSLnOXLFf1ojKc3F2SuzoLvxjolpnderIw6rGMmqg8f6Sfuw3rfSDP9a0bPwto1jHsisIW/2pFDn8zWnFBFAuIY0jHoq4rRywcdIxk/VpfoybVXu0jm/+E+0rvb33/fj/AOvUkHjvRJpNryyQe8ybRXRkBgQwyD1BqlNo2m3GfPsLdyRjLRAmkp4R7wa+f/AHy1ejX3ElnqVnfpvs7mOYf7JqzXJX3gS3RjcaHPJY3K8gq5wT/SrvhHWLrU7S4g1FcXVm4jkb16/4UVMPTdN1aMrpbp6NBGcublmjoKKKK4TYKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigCG9nNrYzzgZMUbPj6DNcx4U0e3vbQ6vqKi5urlywZ+do9BXVyxLPC8UgyjqVYeoNcbaXmoeEHeyurKa7sd5aGWBdxUHsa9HDc0qU4U3aTt812MKllJOWxP4u0eGysf7Y05Rb3NqysSnAcZxg0Q/E7wiIEFzr9pHNtHmIWOVbuOlVr271Dxi6WNrZzWlhuBmlnXaWA5wK2V8E+GAoD6BprsBgs1qhJ9zxTxN40YQqu8lf5LsxU9ZuUdjn7/AMQad4z1ix0zRdRjubJmLXDQn06Cus/4R/Svsn2b7FF5WMY21hat4Sg09oNQ8LWFtaXNs24xQRrGJR36d6d/wm8nk7P7GvvtXTZ5Z25+vpWnLVq0YLDvbdXtrff/AIJN4xk+czrLX9O8F6ze6brGoJbWOQ9u0zfdz2rT/wCFneC/+his/wDvo/4VHpPhSHUmn1DxTYW11PcsGWKeNXEQ/GtL/hCfC3/Qu6X/AOAif4VzYyUJVdHd2V33dtTSkmolH/hZ3gv/AKGKz/76P+Fbek67peu25m0i+hu4x1aNs1S/4Qnwt/0Lul/+Aif4VwPivRIPh74p0nxD4dAtLa8ultLq1j4R92cHHTtXJozXU9aoornvHPiNfC/hS5vxzMf3cC/3nPQUhkfimK88Q6Nc6Z4a1WG3ug4juG6sik/MPY4q14X8K6d4V0tbXT4vnPzSzNy0jdyTWN8M/DEmheH/ALbqOX1TUj9oupG+9ludv4ZrtKH2EFFFFIYUUUUAFFFFAGB4u8Iaf4v0lrW9Xy5l5guFHzRN2IrmfA3ie/07V5PB/i1/+JhbjNrcHpcR/wCNei1wfxU0BLvQk1y1kS31LSm86GYttyO65ql2E+53lFeRW/xl1PWbW2g8M+HLi/vWRRM7LiJXI55HTn1q1EfjBfOXL2GnKTwjpG+PxGaOVhc9ToryuSX4v6dIHKWOqRqcsiLHHkfXg1NpnxiS2vRZeNdIuNFnZiBKUYxH8ep/DijlYXPTqKitbu3vbZLizmjnhcZV42DA/iKlqRhRRWZ4k1uHw54cvNXuUZ47WPcVXqeQB+poANf8Q6d4a0uS/wBWnEUSDgfxMfQDua8707RtX+J+qpq/iVWs9BhbNrYdDN/tNU3h7wtqHjnUYfFHjYA22N9lp2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**Amazon Web Services –**[**What is AWS ?**](https://aws.amazon.com/what-is-aws/?pg=TOCC)

Amazon Web Services (AWS) is the world’s most comprehensive and broadly adopted cloud, offering **over 200** fully featured services from data centers globally. Millions of customers—including the fastest-growing startups, largest enterprises, and leading government agencies—are using AWS to lower costs, become more agile, and innovate faster.

**AWS Service:** is a collection of resources and tools that AWS provides to users to accomplish specific tasks or functions in the cloud.

**AWS Resources:** It refers to any computing or storage component that is used to build and deploy applications in the cloud. This can include virtual machines, databases, load balancers, network interfaces, and many other components that are managed by AWS.

**Example:** **EC2** is an AWS service that provides virtual machines as resources, and **S3** is an AWS service that provides object storage as resources.

We can Access AWS cloud using   
a) AWS Console  
b) AWS CLI  
c) AWS SDKs

[AWS - Region and AZ + EC2 (Instance Types, Families, Purchase Options)](https://itdefined.org/course/training-material/2/23/739/)

**AWS Region and Availability Zone**

**AWS Region** is a separate geographic area where we cluster data centers. Each Region is designed to be isolated from the other Regions. This achieves the greatest possible fault tolerance and stability.

When you view your resources, you see only the resources that are tied to the Region that you specified.

**Availability Zones** are multiple, isolated locations within each Region. The code for Availability Zone is its Region code followed by a letter identifier. For example, us-east-1a.

Each Region will have a minimum of 3 separate AZ.

**EC2 Instance Types:**

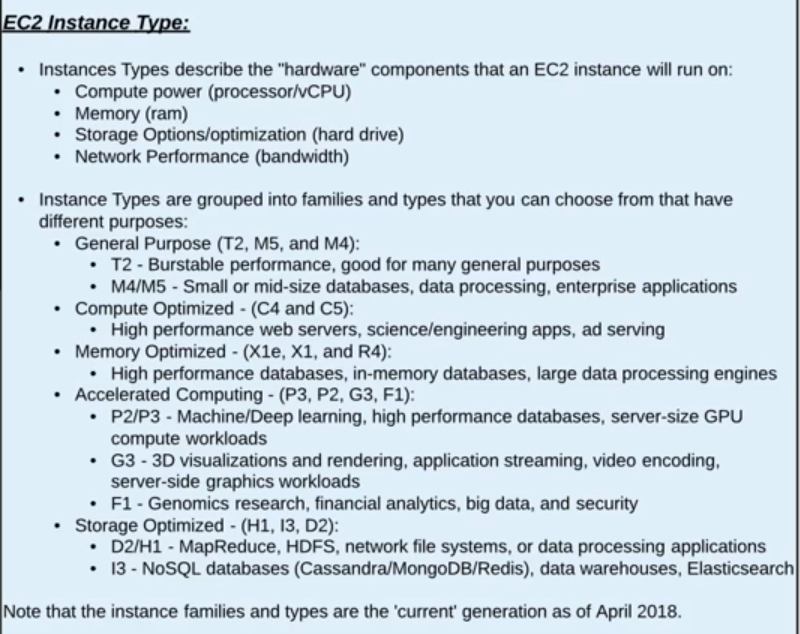
General Purpose

Compute Optimized

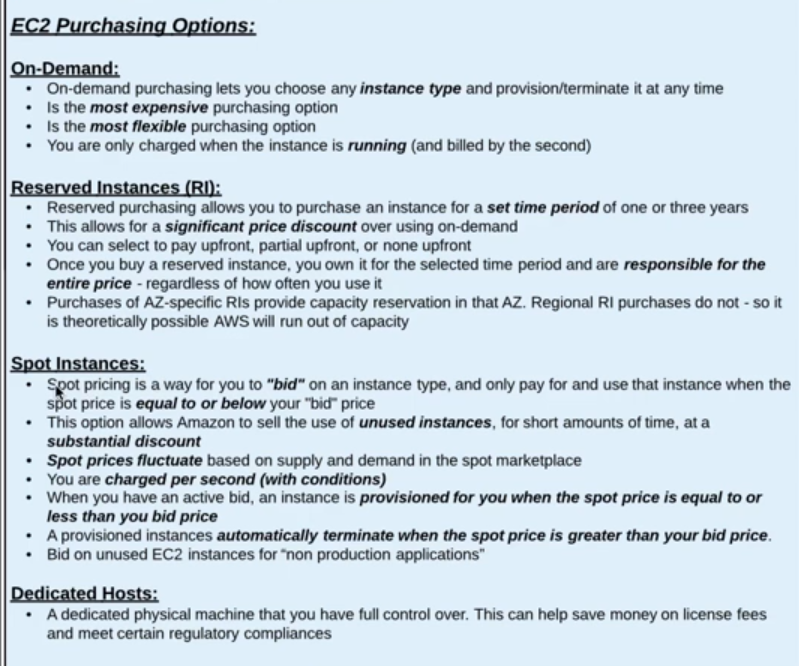
Memory Optimized

Storage Optimized

Accelerated Computing

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**EC2 Purchasing Options and Cost Saving:**

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[AWS - EC2 (Status Checks, Security Groups, Tags, Keypair, Instance Profile Role, Termination & Shutdown Protection, User data)](https://itdefined.org/course/training-material/2/23/742/)

**User Data in EC2:**When you launch an instance in Amazon EC2, you have the option of passing user data to the instance that can be used to perform common automated configuration tasks and even run scripts after the instance starts.

There are two types of user data in linux ([reference](https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/user-data.html)) - shell scripts and cloud-init directives. For Windows instances ([reference](https://docs.aws.amazon.com/AWSEC2/latest/WindowsGuide/ec2-windows-user-data.html)), you can use batch script and Powershell script.

Note: The user data run only during the first launch of instance. In order to run the user data scripts on every restart of the instance, we have to update some configuration ([Reference](https://aws.amazon.com/premiumsupport/knowledge-center/execute-user-data-ec2/)).

**Security Groups**  
It is a stateful service which acts like a firewall at the instance to route inbound and outbound traffic by defining inbound and outbound rules. Security groups are stateful — if you send a request from your instance, the response traffic for that request is allowed to flow in regardless of inbound security group rules.

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic

[AWS - EC2 (AMI, Snapshots, Sessions Manager)](https://itdefined.org/course/training-material/2/23/744/)

**Amazon Machine Image (AMI):**

An Amazon Machine Image (AMI) provides the information required to launch an instance.

You can launch multiple instances from a single AMI when you need multiple instances with the same configuration.

You must specify an AMI whenever you launch an instance.

**Custom AMI**

You can launch an instance from an existing AMI, customize the instance by installing/uninstalling packages on the instance, and then save this updated configuration as a custom AMI. Instances launched from this new custom AMI include the customizations that you made when you created the AMI.

AMI can be shared across different accounts without making it public, but in the same region.  If the Custom AMI is required in another region, it needs to be copied and then shared again. ([Reference](https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/sharing-amis.html))

**Difference between EBS Snapshot and AMI**

An **AMI** image is a backup of an entire EC2 instance. Associated with an AMI image are EBS snapshots. Those EBS snapshots are the backups of the individual EBS volumes attached to the EC2 instance at the time the AMI image was created.

An **EBS snapshot** is a backup of a single EBS volume. The EBS snapshot contains all the data stored on the EBS volume at the time the EBS snapshot was created.

[AWS - EBS (Snapshots, Volume Types) + EFS (Lifecycle, Mounts)](https://itdefined.org/course/training-material/2/23/748/)

**Amazon Elastic Block Store (Amazon EBS)**

Amazon Elastic Block Store (Amazon EBS) provides block level storage volumes for use with EC2 instances. EBS volumes behave like raw, unformatted block devices.

EBS volumes are persistent. They can live beyond the life of the ec2 instance that they are attached to. They can be attached/detached to and from different ec2 instances.

An EBS volume can only be attached to 1 ec2 instance at a time (Multi Attach EBS Volume can be attached to multiple instances). They are mounted to the file system.

You can back up the EBS volume into a snapshot, which can later be used/restored into a new EBS volume.

**Types of EBS Volumes**

Reference: [EBS volume types](https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebs-volume-types.html)

Solid State Drives (SSD)

General Purpose SSD

Provisioned IOPS SSD

Hard Disk Drives (HDD)

Throughput Optimized HDD

Cold HDD

Previous Generation

Magnetic

**EBS Snapshots**

You can back up the data on your Amazon EBS volumes to Amazon S3 by taking point-in-time snapshots.

Snapshots are incremental backups.

Each snapshot contains all of the information that is needed to restore your data (from the moment when the snapshot was taken) to a new EBS volume.

You can use Amazon Data Lifecycle Manager to automate the creation, retention, and deletion of snapshots taken to back up your Amazon EBS volumes

**Difference between EBS Snapshot and AMI**

|  |  |
| --- | --- |
| **EBS snapshot** | **AMI** |
| An EBS snapshot is a backup of a single EBS volume. The EBS snapshot contains all the data stored on the EBS volume at the time the EBS snapshot was created. | An AMI image is a backup of an entire EC2 instance. Associated with an AMI image are EBS snapshots. Those EBS snapshots are the backups of the individual EBS volumes attached to the EC2 instance at the time the AMI image was created. |

In summary, **EBS snapshots** are focused on data backup and recovery, allowing you to capture the state of an EBS volume at a specific point in time. On the other hand, **AMIs** provide a full system image, including the operating system and applications, allowing you to create identical instances or launch new instances based on a known configuration.

**Amazon EFS (Elastic File System):**

Amazon Elastic file systemis a regional service storing data within and across multiple Availability Zones (AZs) for high availability and durability

Amazon EFS is an NFS file system service offered by AWS.

An Amazon EFS file system is excellent as a managed network file system that can be shared across different Amazon EC2 instances.

Amazon EFS works like NAS devices and performs well for big data analytics, media processing workflows, and content management.

EFS can be accessed by multiple instances at a time through NFS protocol. It is used as a clustered database and document sharing.

**Benefits of EFS:**

With EFS you need not worry about managing file servers or storage, updating hardware, configuring software, or performing backups as EFS is a fully managed service

 The distributed architecture of Amazon EFS provides data protection from an AZ outage, system and component failures, and network connection errors.

Network Access to the files can be controlled using Virtual Private Cloud security group rules and with Identity Access Management policies and EFS access points you can control the access to your files

Amazon EFS is designed to provide the throughput, IOPS, and low latency needed for a broad range of workloads

With Amazon EFS, storage capacity is elastic, growing and shrinking automatically as you add and remove files, dynamically providing the storage capacity to applications as needed.

AWS EFS provides encryption of data both at rest and in transit so that your data is secure.

**EFS Access Points:**(Reference: [Access Points](https://docs.aws.amazon.com/efs/latest/ug/efs-access-points.html))

Access Points are application-specific entry points into an EFS file system that make it easier to manage application access to shared datasets.

Access points can enforce a user identity, including the user's POSIX groups

Access points can also enforce a different root directory for the file system so that clients can only access data in the specified directory or its subdirectories.

**NOTE:**We can mount and access EFS volumes across VPCs, i.e., EFS in VPC1 can be accessed from an ec2 instance running in VPC2, provided **both the VPCs are connected** using VPC peering or Transit Gateway.  (Reference: [Mount a File System from a Different VPC](https://itdefined.org/course/training-material/2/23/748/Mount%20a%20File%20System%20from%20a%20Different%20VPC))

[AWS - EFS (Access Points) + S3 (Storage Classes, Lifecycle Policy, Encryption, Versioning)](https://itdefined.org/course/training-material/2/23/752/)

**Amazon S3 (Simple storage service)**

Amazon S3 is an object storage service. It is a scalable, high-speed, web-based cloud storage service.

It 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.

S3 provides 99.999999999% durability for objects stored in the service and supports multiple security and compliance certifications.

**Single operation upload:**

It’s a traditional upload where you will upload the object in one part

A single operation upload can upload the file up to 5GB in size.

**Upload object in parts:**

Using multipart upload, you can upload the large objects up to 5TB.

You can use multipart upload for the objects from 5MB to 5TB in size.

**Rules for bucket naming:**

Bucket names must be between 3 and 63 characters long.

Bucket names can consist only of lowercase letters, numbers, dots (.) and hyphens (-)

Bucket names must begin and end with a letter or number.

Bucket names must not be formatted as an IP address (for example, 192.168.5.4).

Bucket names can't begin with xn-- (for buckets created after February 2020).

**Limitation of S3 bucket:**

Only 100 buckets can be created per account.

Can hold unlimited objects

**S3 Storage classes: (Reference:**[**https://aws.amazon.com/s3/storage-classes/**](https://aws.amazon.com/s3/storage-classes/)**)**

Standard

S3 Intelligent-Tiering

S3 Standard-IA: Infrequent Access

S3 One Zone-IA

Glacier

Glacier Instant Retrieval

Glacier Flexible Retrieval

Glacier Deep Archive

S3 Outposts

**Types of Encryption**

**Server-side Encryption**– Done by AWS – Aws managed encryption

**Client-side Encryption**– Done by user – Customer managed encryption  
  
In server side encryption, master key is managed by AWS.  
In client side encryption, we need to provide the master keys.  
  
Server side encryption is also called as encryption at rest. (after storing the data in s3)  
In client side encryption, encryption will be done during transit (first encrypt the data and then store it in s3).

**Difference between EBS v/s EFS v/s S3**

|  |  |  |
| --- | --- | --- |
| **AMAZON S3** | **AMAZON EBS** | **AMAZON EFS** |
| Can be publicly accessible Web interface Object Storage Scalable Slower than EBS and EFS | Accessible only via the given EC2 Machine File System interface Block Storage Hardly scalable Faster than S3 and EFS | Accessible via several EC2 machines and AWS services Web and file system interface Object storage Scalable Faster than S3, slower than EBS |
| Good for storing backups and other static data | Is meant to be EC2 drive | Good for applications and shareable workloads |

**S3 Lifecycle policy:**

An object lifecycle policy is a set of rules that automate the migration of the object storage class to different storage class

By default, lifecycle policies are disabled for a bucket

Lifecycle Management can be applied to both current and previous versions.

It can be used either in conjunction with the versioning or without versioning.

There are 2 types of actions:

**Transition actions:** Moving objects from one storage class to another storage class. Each storage class has a different cost associated with it.

**Expiration actions:** When objects expire after a span of time (say 30 days,60 days, etc). Amazon S3 deletes expired objects on your behalf.

A diagram of a bucket

Description automatically generated

**S3 Encryption:**

Two ways of protecting information while transferring data with S3

**1.Server side/ At rest:**

A diagram of a red speaker

Description automatically generated

**2. In-transit/Client-side encryption:**  
(a) Using KMS or (b) Using Client side Master key

A diagram of a computer software

Description automatically generated with medium confidence

**S3 Bucket Versioning**  
Buckets can be in one of three states:

Un-versioned (the default)

Versioning-enabled

Versioning-suspended

You can enable and suspend versioning at the bucket level. After you enable versioning on a bucket, it can never return to an unversioned state. But you can suspend versioning on that bucket.

Objects that are stored in your bucket before you set the versioning state have a version ID of**null**.

When you enable versioning, existing objects in your bucket do not change. What changes is how Amazon S3 handles the objects in future requests. (Reference: [Working with objects in a versioning-enabled bucket](https://docs.aws.amazon.com/AmazonS3/latest/userguide/manage-objects-versioned-bucket.html))

The bucket owner (or any user with appropriate permissions) can suspend versioning to stop accruing object versions.

When you suspend versioning, existing objects in your bucket do not change. What changes is how Amazon S3 handles objects in future requests. (Reference: [Working with objects in a versioning-suspended bucket](https://docs.aws.amazon.com/AmazonS3/latest/userguide/VersionSuspendedBehavior.html))

[AWS - IAM (Users, Groups, Policies)](https://itdefined.org/course/training-material/2/23/760/)

**Amazon IAM (Identity and Access Management)**

IAM provides access to AWS accounts and services where we can manage Users, Groups, Roles and Policies.

It is a global service. Anything you create/change applies **globally** to all AWS regions.

**IAM Users** - We create users and assign necessary permissions to them in the form of policies.

**IAM Groups** - We can create groups for ex. Developers, Administrators, Testers/QA etc and attach policies at the group level.

**IAM Roles** - These are entities used to create and assign permissions to allow users/resources to perform actions

**IAM Policy** defines permissions for users/roles to perform an action/operation on AWS cloud

**Types of IAM Policy: (Reference:**[**link**](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies.html)**)**

**Identity-based Policies:** Applicable on users, groups of users, and roles

AWS Managed policy

Custom Managed Policy

Inline Policy

**Resource-based policies:** Attach to a resource such as an Amazon S3 bucket

**Session Policies:** create a temporary session for a role or federated user

There are also **Permissions Boundaries**, **Organizations SCPs**and **Access control lists (ACLs)**

**Note:** More than one policy can be attached to a user or a group at the same time.

Policies can’t be attached directly to resources like EC2 instance, S3 bucket etc.

You can make use of AWS Policy Generator - <https://awspolicygen.s3.amazonaws.com/policygen.html>

[AWS - IAM (Roles, Cross Account Role, Identity Provider, SSO) + AWS CLI (STS, Assume Role)](https://itdefined.org/course/training-material/2/23/761/)

**IAM Roles** - These are entities used to create and assign permissions to allow users/resources to perform actions on AWS account.

**Cross Account Role (**[Reference](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles_common-scenarios_aws-accounts.html))- Cross-account IAM roles allow users from one account to securely connect and access AWS resources in another account. There must be relevant permissions provided in the policies attached to the user (account1) and the role (account2) to assume the role.

**AWS CLI**

The AWS Command Line Interface (AWS CLI) is an open source tool that enables you to interact with AWS services using commands in your command-line shell. With minimal configuration, the AWS CLI enables you to start running commands that implement functionality equivalent to that provided by the browser-based AWS Management Console from the command prompt in your terminal program:

Linux shells – Use common shell programs such as bash, zsh, and tcsh to run commands in Linux or macOS.  
Windows command line – On Windows, run commands at the Windows command prompt or in PowerShell.  
Remotely – Run commands on Amazon Elastic Compute Cloud (Amazon EC2) instances through a remote terminal program such as PuTTY or SSH, or with AWS Systems Manager.

**Install** or **Update** AWS CLI by following the link [here](https://docs.aws.amazon.com/cli/latest/userguide/getting-started-install.html).

**STS – Getting Session Token for temporary access to AWS accounts**

The AWS Security Token Service (STS) is a web service that enables you to request temporary, limited-privilege credentials for AWS Identity and Access Management (IAM) users or for users that you authenticate (federated users).

Run the following commands to configure AWS CLI and get session token

aws configure   
               <Enter Access Key Id and Secret Access Key, Region and Output>

aws sts get-session-token  
example output:  
{  
   "Credentials": {  
        "AccessKeyId": "ASIATFOKVBZRFMBZYVGJ",  
        "SecretAccessKey": "mN7FUNC4RyGWs9sqYR2HBJ189VRgIU4D1lO6vSh8",  
        "SessionToken": "",  
        "Expiration": “2023-07-03T23:06:22+00:00”  
   }  
}

**Assume Role:**

aws sts assume-role

Returns a set of temporary security credentials that you can use to access AWS resources that you might not normally have access to. These temporary credentials consist of an access key ID, a secret access key, and a security token.

**Example using STS and Assuming Role to query AWS resources:**

1. Create a IAM user   
2. Add ec2 full access policy   
3. Try to list the bucket (aws s3 list-buckets) - you can't list the bucket because the user is not having the permission to list bucket (access denied)  
4. Grant the user to assume a role   
> Create a role   
> Attach a policy s3 full access policy   
> Edit the role under **Trust Relationship**, modify the policy to user instead of ec2  
"Principal": {  
                 **"Service": “ec2.amazonaws.com”**  
}

to

"Principal": {  
               **"AWS": “arn:aws:iam::237423272700:user/test-user-cli”**  
}

5. aws sts assume-role --role-arn <enter\_role\_arn> --role-session-name s3-access --duration-seconds 3600  
6. copy the Accesskey, Secretkey and Session token (Reference: [Linux or Windows](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_temp_use-resources.html#using-temp-creds-sdk-cli))  
7.  export AWS\_ACCESS\_KEY\_ID=<enter the copied access key>  
     export AWS\_SECRET\_ACCESS\_KEY=<enter the copied session key>  
     export AWS\_SESSION\_TOKEN=<sessiontoken>  
8. aws s3 ls **OR**aws s3api list-objects --bucket <bucket\_name>

Assignment - 2024-06-15erforming basic actions like ec2 start/stop/terminate using AWS CLI