

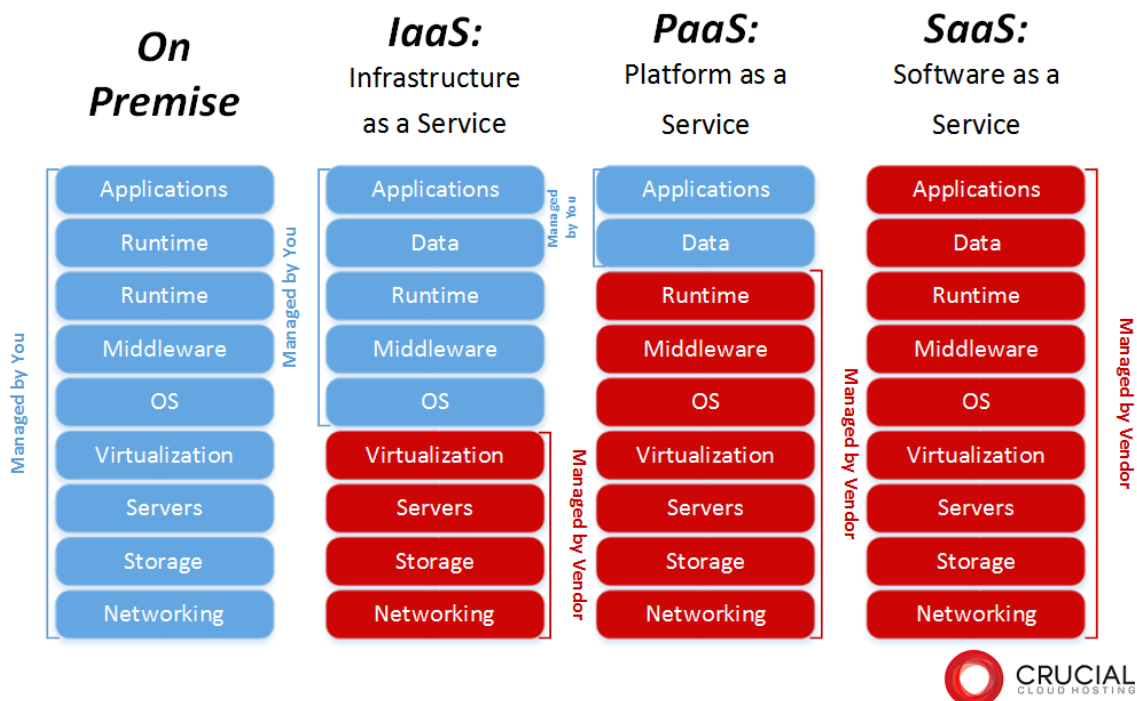
Exploring AWS Cloud (24th July 2026)

S.No	Topic Covered	AWS Service
Session - 1 Topic : Cloud Basics & IAM		
1	Introduction to AWS Cloud	
2	AWS Console Basic Walkthrough	
3	User Creation, User Policies, User Roles & Multi Factor Authentication (MFA), Alias account name	IAM - (Identity Access Management)
4	Creating a EC2 Linux instance on AWS Cloud	EC2 (Elastic Cloud)
Session – 2 Topic : Website deployment on AWS		
1	Preparing the environment & Deploying Website on the AWS Ubuntu Cloud Server	EC2 (Elastic Cloud)
2	Creating & managing the private keys	EC2 (Elastic Cloud)
3	Usage of SSH Software (bitvise)	EC2 (Elastic Cloud)
4	Fetching website from www.webxo360.com and deploying	Out source
5	Assigning Static IP address	EC2 (Elastic Cloud)
6	Assigning a Domain name to our website	Route 53 / Any DNS SP

Introduction to Cloud

- Cloud computing is the **on-demand availability of computer system resources**, especially data storage and computing power, without direct active management by the user.
- Large clouds often have functions distributed over multiple locations, each location being a data center. - [Wikipedia](#)

Cloud Service Models



Examples

1. On-Premise - Rack Servers on the premises

2. IaaS - AWS , Digital Ocean, Linode servers

3. PaaS - Google App Engine

4. SaaS - Netflix , Youtube

Advantages

- Back-up and restore data
- Improved collaboration
- Excellent accessibility
- Low maintenance cost
- Mobility
- Services in the pay-per-use model
- Unlimited storage capacity
- Data security

Disadvantages

- Internet Connectivity
- Vendor lock-in
- Limited Control

AWS Data Centers

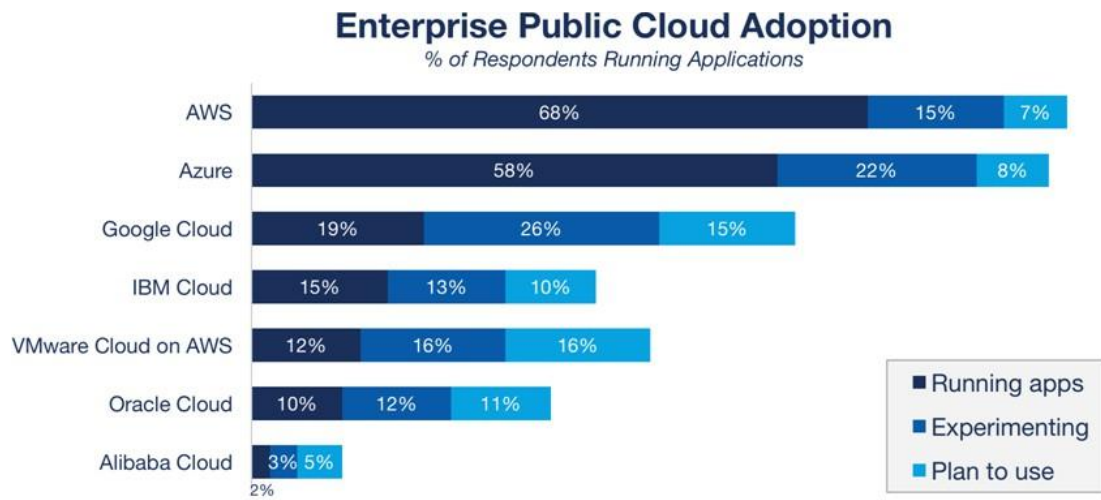




Why AWS?

- It is the No.1 Cloud service provider in the world.
- It is available in more than 26 regions around the world.
- It has over 200+ Services.





Source: RightScale 2018 State of the Cloud Report

Let's Begin the Practical Session.....

AWS Ubuntu Cloud Server EC2-Instance Commands

Some of the important Ubuntu commands for preparing the environment & deploying the static website on the AWS Ubuntu EC2-Instance.

Default username : ubuntu

Order in which these commands have to be executed

S.no	Ubuntu Commands	Actions
1	<code>sudo su</code>	Elevate yourself to the root user
2	<code>sudo apt update</code>	Check for the Updates
3	<code>sudo apt upgrade</code>	Run server update
4	<code>sudo apt install apache2</code>	Install the apache http service on the server
5	<code>cd /var/www/html</code>	Changing Directory
6	<code>ls</code>	To list files
7	<code>vim index.html</code>	To open index file in edit mode
8	Click i	To open file in edit mode
9	Esc + : wq	To write and quit
10	<code>wget outer_source_link</code>	To fetch files from outer source into EC2 Instance.
11	<code>rm index.html</code>	Remove old index file
12	<code>sudo apt install unzip</code> <code>unzip FileName.zip</code>	Extracting Files
13	<code>mv (unzippedfile)/* .</code> Example: <code>mv Website/* .</code> (If filename is Website)	Moving the files into root directory

Some Important links:

<https://webxo360.com/downloads/>



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<https://forms.gle/CgRbEM4qTWzropKq7>