Azure Fundamentals (AZ-900)



Shailendra Chauhan

Microsoft MVP, Technical Consultant and Corporate Trainer



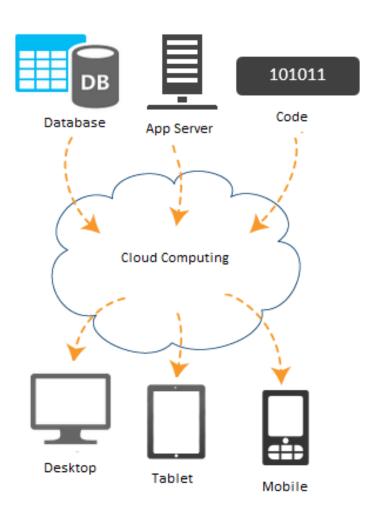
Agenda

- What is Cloud Computing?
- Microsoft Azure Platform
- Cloud Deployment Models
- Microsoft Azure Platform History
- Public Cloud Adoption
- Microsoft Azure Advantages
- Azure Certifications



What is Cloud Computing?

- A way to deliver the computing as a service rather than a product.
- Provides on-demand hardware (like Server), storage resources, services hosting, services management environment, and other devices as a resource over the internet.
- Typically, it is a way to rent compute power and storage from someone else's datacenter.





Cloud Computing Advantages

- **High availability**: Your cloud-based applications/service will always run with no downtime even when things go wrong.
- Scalability: Cloud-based applications can be scaled in two ways:
 - **Vertically**: Computing capacity can be increased by adding RAM or CPUs to a virtual machine.
 - Horizontally: Computing capacity can be increased by adding instances of a resource.
- **Elasticity**: Cloud-based applications can be configured for auto scaling, so it will always have the resources when they need.

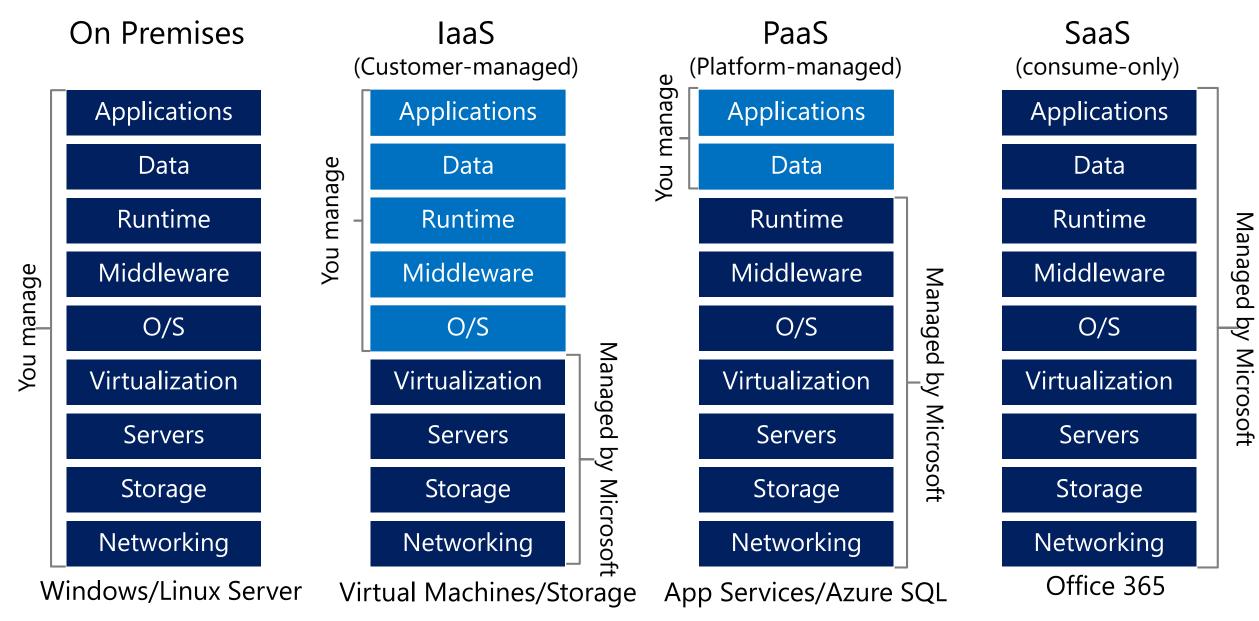


Cloud Computing Advantages Contd...

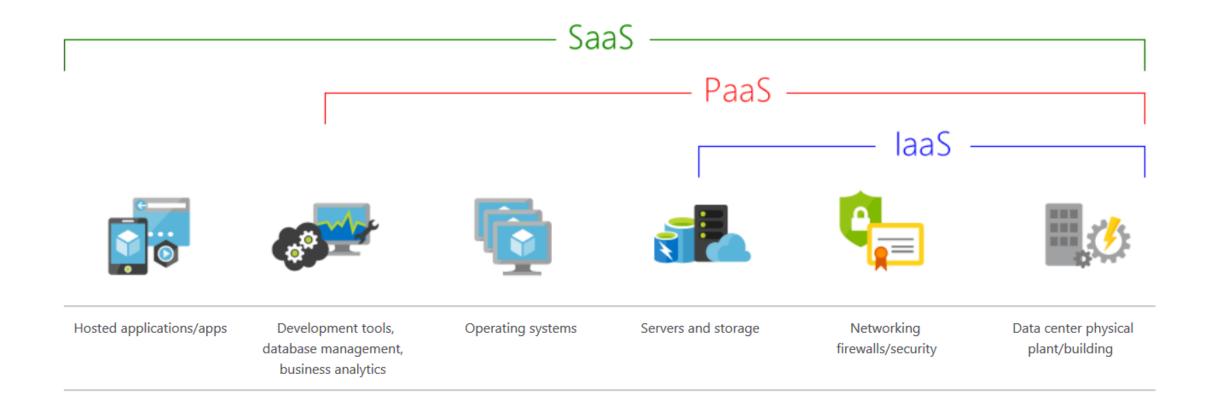
- Agility: Cloud-based resources can be deployed and configured quickly as your application requirements change.
- **Geo-distribution**: Applications and data can be deployed to regional datacenters around the globe, so your customers always have the best performance in their region.
- **Disaster recovery**: cloud-based application data is replicated and geodistribution make your data safe even a disaster occur.



Cloud Computing Offering



Cloud Computing Offering



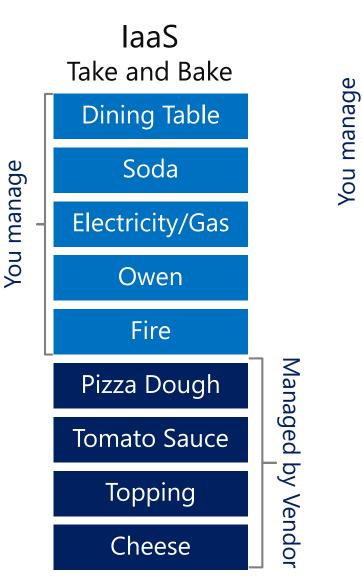


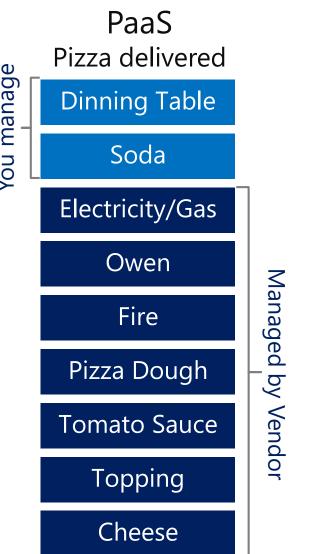
Cloud Computing Offering hungry kya!



manage

You





Dine out Dinning Table Soda Electricity/Gas Managed Owen Fire by Vendor Pizza Dough **Tomato Sauce** Topping Cheese DotNetTricks

SaaS

Serverless Computing (FaaS)

- In serverless computing servers are still running the code. But the tasks associated with infrastructure provisioning and management are invisible to the developer.
- Enables developers to build applications faster by eliminating the need to provisions, scales manage infrastructure.
- Serverless architectures are highly scalable and event-driven. They use resources only when a function or trigger occurs.
- Serverless computing enables team to increase their productivity and bring products to market faster.



Cloud Computing Deployment Models



Accessible over the public internet



Exclusive for an Organization



A Mix of public & private

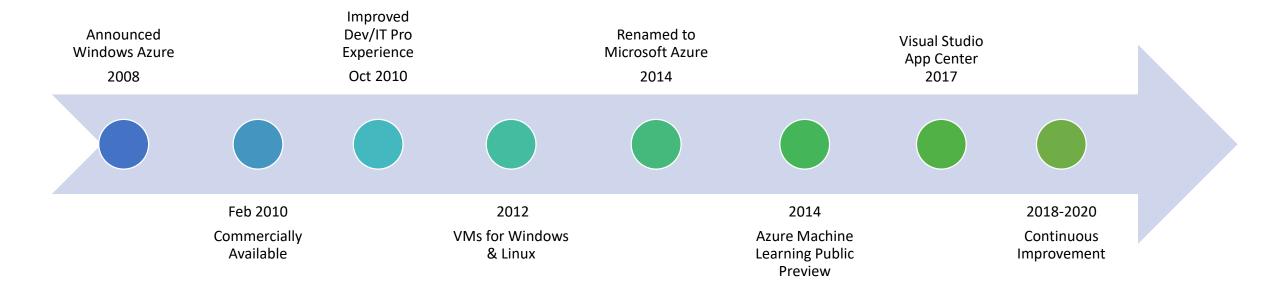


Microsoft Azure Platform

- An open and flexible cloud platform which offers a set of cloud services that help your organization to meet your current and future business challenges.
- Provides on-demand compute and storage to host, scale, and manage web applications on the internet through Microsoft datacenters.
- You can build applications using any language, tool, or framework. Even you can integrate your public cloud applications with your existing IT environment.

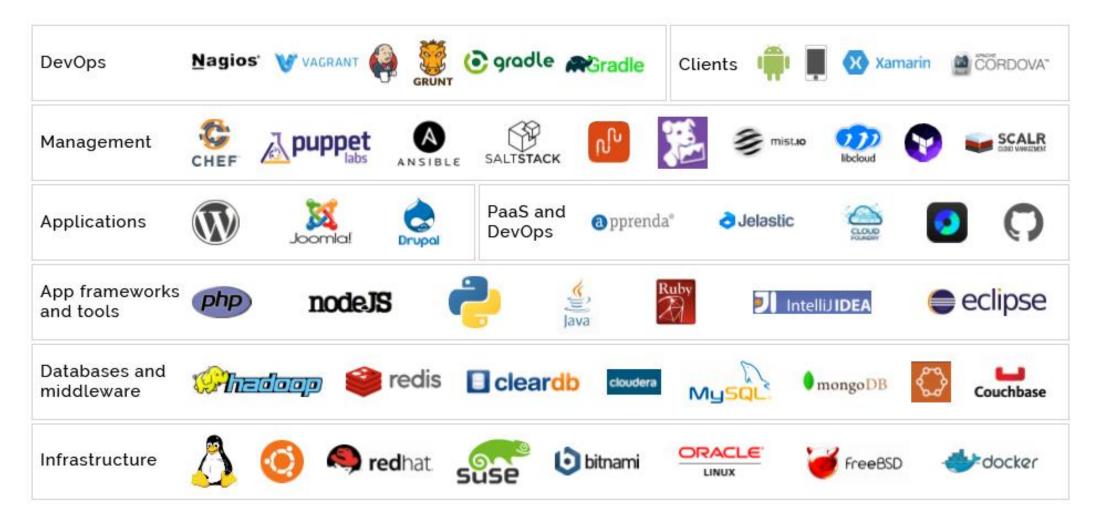


Microsoft Azure Platform History



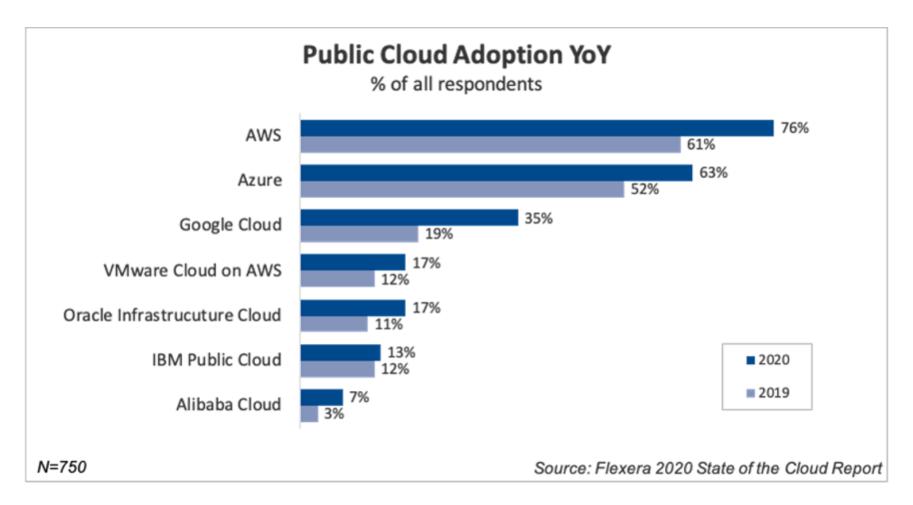


Support for Open Source





Public Cloud Adoption 2019 vs. 2020





Microsoft Azure Services

Platform Services

Web and mobile

API Management









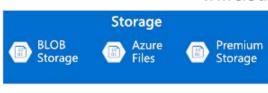
Developer services

X Azure SDK



Infrastructure Services



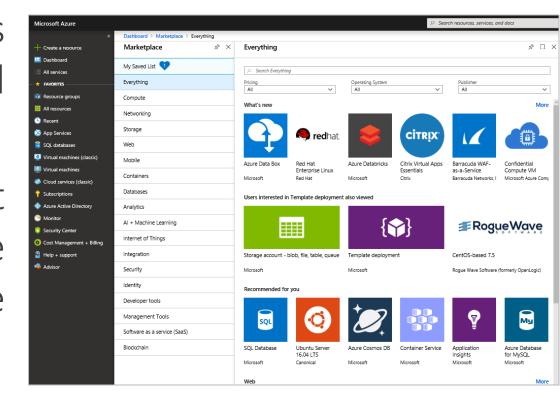






Azure Marketplace

- An online store that hosts applications that are certified and optimized to run in Azure
- Helps us to connect with Microsoft partners, independent software vendors, and startups that are offering their solutions and services.
- There are more than 8,000 listings





Configuring Visual Studio 2017/2019

Modifying — Visual Studio Enterprise 2017 — 15.4.1 Workloads Individual components Language packs Windows (3) Universal Windows Platform development .NET desktop development Create applications for the Universal Windows Platform Build WPF, Windows Forms, and console applications using with C#, VB, JavaScript, or optionally C++. C#, Visual Basic, and F#, Desktop development with C++ Build classic Windows-based applications using the power of the Visual C++ toolset, ATL, and optional features like... Web & Cloud (7) ASP.NET and web development Azure development Build web applications using ASP.NET, ASP.NET Core, Azure SDK, tools, and projects for developing cloud apps HTML, JavaScript, and container development tools. and creating resources. Node.js development Python development Editing, debugging, interactive development and source Build scalable network applications using Node.js, an control for Python. asynchronous event-driven JavaScript runtime.



Azure Certifications



Job Roles

- **Developer**: Responsible to design, build, test, and maintain solutions using Microsoft technologies.
- Administrator: Responsible to implement, monitor, and maintain solutions using Microsoft technologies.
- Solutions Architect: Responsible to design solutions that meet the needs of the business using Microsoft technologies.



Expertise Levels









Azure Certification Badges





AZ-900 Exam Format

- No. of Questions: 40-60
- Questions Types: Multiple Choice, Multi Response, Case Study etc.
- Passing Score: 700 on a scale of (1-1000)
- Exam Duration: 85 Minutes
- Exam Fee: \$99/ ₹3696



AZ-204/AZ-104 Exam Format

- No. of Questions: 40-60
- Questions Types: Multiple Choice, Multi Response, Case Study etc.
- Passing Score: 700 on a scale of (1-1000)
- Exam Duration: 150 Minutes
- Exam Fee: \$165/ ₹4800

