What are Serverless Technologies?

Serverless Technologies

"Serverless computing enables developers to build applications faster by eliminating the need for them to manage infrastructure. With serverless applications, the cloud service provider automatically provisions, scales, and manages the infrastructure required to run the code..."

[Source: https://azure.microsoft.com/en-us/overview/serverless-computing/]

Serverless Technologies

Set up code to run on demand

Provision and automatically scale computing resources as needed

Pay for resources used, instead of a fixed amount

Servers still exist, but you don't need to think about them

Faster and easier to build and deploy applications

Types of serverless services

Function as a Service (FaaS)

Deploy cloud functions without provisioning servers

Event-driven – functions are triggered by various events

Only pay for compute time when functions are run

Containers as a Service (CaaS)

Deploy and manage Docker containers to clouds

Types of serverless services

When would you use FaaS vs Caas?

FaaS: short-lived functions with few dependencies, minor data processing

CaaS: longer processes with many dependencies, heavy processing requirements

"Big Three" FaaS platforms

AWS Lambda Functions

Google Cloud Functions

Microsoft Azure Functions