Microsoft Azure Fundamentals
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Module Completion & Exam Hints

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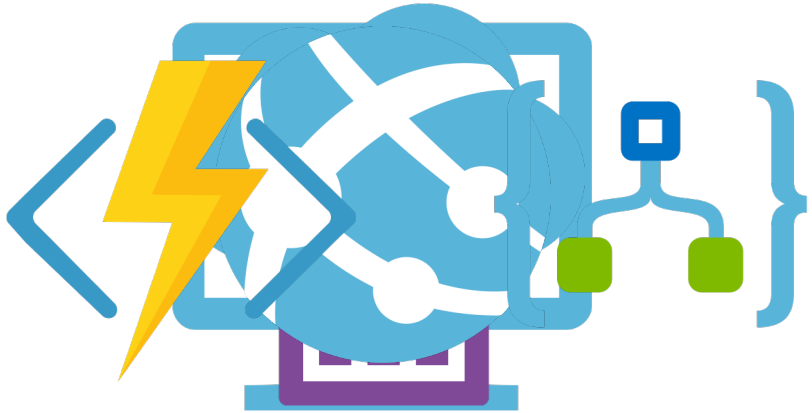
Azure Compute Options

Azure Compute Options Introduction

- Azure compute is an *on-demand* computing service that facilitates running your Apps in the cloud

- Resources in Azure are available *on-demand* in minutes or even seconds (depends on the compute option)

- Azure Computing options:
  - VMs
  - Containers
  - Azure App Service
  - Serverless (Function & Logic Apps)



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Azure Containers

Containers in Azure – Azure Container Instances

- You can easily run containers on Azure without managing servers -> *Azure Container Instances (ACI)*

- ACI (Azure PaaS offering) allows uploading your containers to Azure and running them immediately

- No virtual machines to manage, no additional configuration needed

Containers in Azure – Azure Kubernetes Service

- Azure Kubernetes Service (AKS) makes deploying and managing containerized applications easy

- Azure Kubernetes Service (AKS) is a complete orchestration service for containers with distributed architectures with multiple containers

- Orchestration – use AKS in order to automate, manage and interact with a large number of containers

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Azure App Service

Azure App Service

- Azure App Service is an HTTP-based service for hosting web applications, REST APIs and mobile back ends

- Available programming languages:

- Azure App Service – PaaS offering

- Pricing – based on App Service Plan

App Service

App Service Plan

- With App Service, apps run in an App Service plan; when you create an App Service plan, a set of compute resources is created for that plan in that region

- Each App Service plan defines: Region, Number of VM instances, size of VMs, pricing tier

- The pricing tier of an App Service plan determines what App Service features you get and how much you pay for the plan

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Azure Serverless Computing

Serverless Computing Main Pillars

- *Abstraction of servers*
  - With serverless computing, you simply upload you code to Azure, which is run assuring HA as well
- *Event-driven*
  - App code is run based on triggers or events
  - i.e. Run a function when it receives an HTTP request
- *Pay by the run time*
  - You pay only for the duration your code runs
  - Times it was executed

Azure Functions

- With Azure Functions you can run small pieces of code ("functions") without worrying about application infrastructure

- The function is triggered by an event

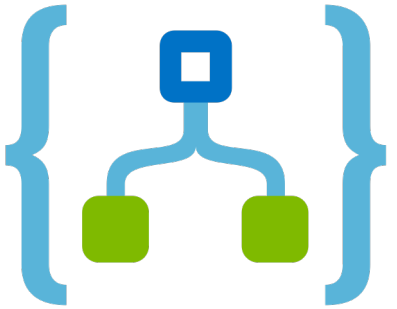
- Trigger examples:
  - Respond to data changes
  - Run a task on schedule
  - Run a function as response to HTTP request

Azure Functions

Azure Logic Apps

- Azure Logic Apps are similar to Azure Functions, just that you don't have to write code

- With Azure Logic Apps you can:
  - Schedule
  - Automate and orchestrate tasks
  - Business processes and *workflows*



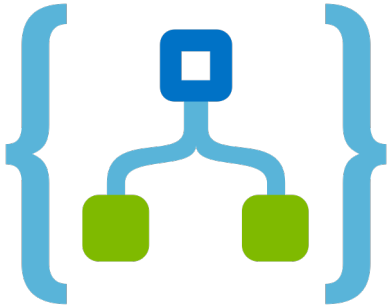
Azure Logic Apps

when you need to integrate apps, data, systems and services across enterprises or organizations

- What does workflow mean ?

Azure Logic Apps Introduction

- Workflow - Visualize, design, build, automate and deploy business processes as series of steps



Azure Logic Apps

- Azure Functions executes code, while Azure Logic Apps executes workflows, using prebuilt logic blocks
- You create Logic Apps workflows using a visual designer on Azure Portal or Visual Studio

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Thank you