

Microsoft Azure Fundamentals  
Training Bootcamp

# Azure Compute Options Introduction

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- ❑ 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

# What are virtual machines (VMs) ?

- ❑ Virtual computers (servers) running in the cloud
- ❑ VMs virtualize the hardware layer, the physical infrastructure, and comprise: vCPU, vMemory, vStorage and vNIC
- ❑ A guest OS can be installed (on the VM), separate and totally independent from the host OS (server)
- ❑ VMs act as physical computers



# What are containers ?

- ❑ Just like VMs, containers can be used in order to run your Apps in the cloud
- ❑ Some differences exist:
  - ❑ Containers don't own an OS
  - ❑ Containers start in milliseconds (ms)
  - ❑ Containers use far less storage
- ❑ More in the dedicated lecture ...



# What is Azure App Service ?

- ❑ Azure App Service is the platform-as-a-service (PaaS) offering from Microsoft Azure
- ❑ With Azure App Service you can build web apps in the programming language of your choice without managing infrastructure



.NET



Node.js



PHP



Java



Python (on Linux)



HTML



Custom Windows container (Preview)

# What is Serverless ? Azure Functions

- ❑ Serverless computing enables developers to build applications faster by eliminating the need for them to manage infrastructure
- ❑ With serverless applications, Azure automatically provisions, scales and manages the infrastructure required to run the code
- ❑ Build app -> execute it ! (create index.html and run it in a cloud ready environment)



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Thank you