





Microsoft Services

Introductions

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- Customer Engineer @ Microsoft
- Cross-platform application developer
- Civil Engineer and Information Tech
- Soccer, hiking and reading

Your introduction

Who are you?

Expectations about this sessions

Day 1

Module - Azure Overview

• Duration: 30 mins

Module – Azure Resource Manager

• Duration : 45 mins

Module – Azure SQL (Optional)

• Duration: 45 mins

Lab – Azure SQL (Optional)

• Duration: 45 mins

Module – Web Apps (Optional)

• Duration: 1 hour

Day 2

Lab – Web Apps (Optional)

• Duration: 30 mins

Module – DevOps Foundations

• Duration: 30 mins

Module – End to End DevOps - Part 1: Plan

• Duration: 30 mins

Lab – End to End DevOps - Part 1: Plan

• Duration : 1 hour

Module – End to End DevOps - Part 2: Dev and Test

• Duration : 45 mins

Lab – End to End DevOps - Part 2: Dev and Test

Duration: 2 hours

Day 3

Module – End to End DevOps - Part 3: Release

Duration: 45 mins

Lab – End to End DevOps - Part 3: Release

Duration: 2 hours

Module – End to End DevOps - Part 4: Monitor and Learn

• Duration: 30 mins

Lab – End to End DevOps - Part 4: Monitor and Learn

Duration: 1 hour

• Either PartsUnlimited or **customer's** own application

Day 4

Proof of Concept

• Either PartsUnlimited or **customer's** own application

Proof of Concept

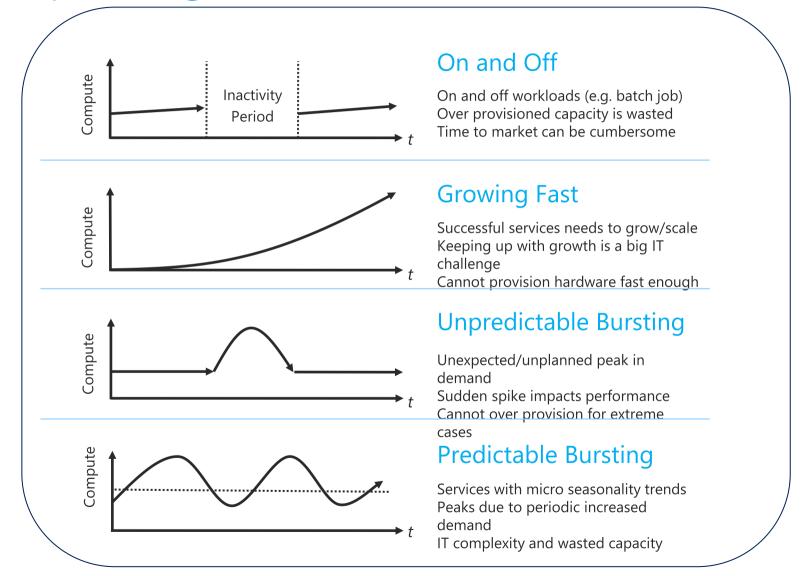
Objectives

After completing this learning unit, you will understand:

- Cloud Computing Introduction
- Microsoft Azure Overview
- Azure Compute Overview

Cloud Computing Introduction

Cloud Computing Patterns



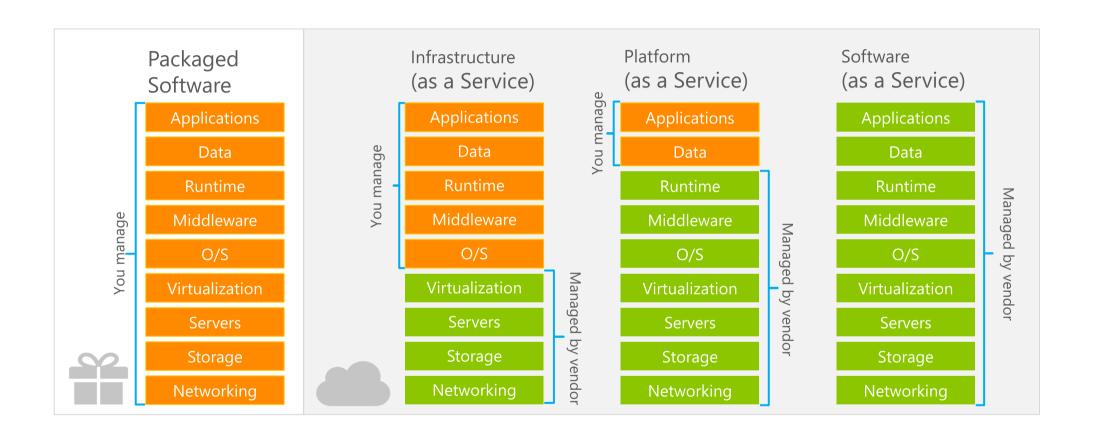
Cloud Computing







Cloud Computing (continued)



Microsoft Azure

regions worldwide countries







^{*} Two Azure Government Secret region locations undisclosed

How are Microsoft Azure Charges Incurred?

- Free (\$200 credit with registration and 30-day usage)
- Pay only for what you use*
- VMs (laaS and web/worker role) usage is by the minute
 - Previous usage rounded up to one hour
- VMs (laaS only) that are stopped in Microsoft Azure do not incur charges

*Microsoft Azure Enterprise Agreement (EA) billing process differs

Microsoft Azure Compute

Virtual Machines

Provision Windows and Linux virtual machines in seconds

Virtual Machine Scale Sets

Manage and scale up to thousands of Linux and Windows virtual machines

App Service

Quickly create powerful cloud apps for web and mobile

Functions

Process events with serverless code

Microsoft Azure Compute - Continued

Azure Container Service

(AKS) Simplify the deployment, management, and operations of Kubernetes

Container Instances

Easily run containers with a single command

Batch Cloud

Scale job scheduling and compute management

Microsoft Azure Compute - Continued

Service Fabric

Develop microservices and orchestrate containers on Windows or Linux

Cloud Services

Create highly-available, infinitely-scalable cloud applications and APIs

Microsoft Azure App Service

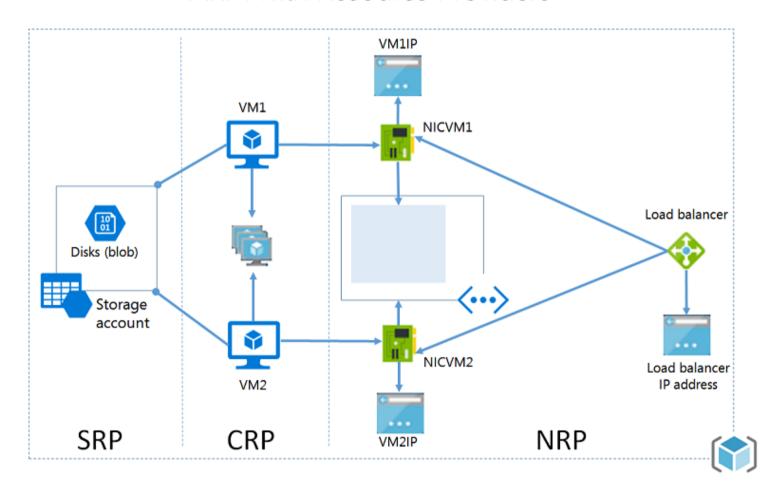
- App Service fully managed platform in Azure for web, mobile and integration scenarios. This
 includes:
 - Web Apps Enterprise grade web applications
 - Mobile Apps Build native and cross platform apps for iOS, Android, and Windows apps or crossplatform Xamarin or Cordova (Phonegap) apps
 - API Apps API apps in Azure App Service are used to develop, publish, manage, and monetize APIs.
 - Logic Apps Allows developers to design workflows that articulate intent via a trigger and series of steps, each invoking an App Service API app
 - Functions Serverless computing platform. Create methods and only pay for the time the method takes to execute

High Level view of Virtual Machine Services

- Compute resources
 - Virtual Machines
 - VM Extensions
- Networking Resources
 - Virtual networks
 - Network interface cards (NICs)
 - Load balancers
 - IP addresses
- Network Security Groups
- Storage Resources if not using Managed Disks
 - Blobs, tables, queues and Files functionality
 - Storage accounts (blobs) Standard & Premium Storage

Management model for PaaS/laaS

ARM with Resource Providers



Demonstration: Management Portal

Build, manage, and monitor everything from simple web apps to complex cloud applications in a single, unified console



Activity: Setup Azure Subscription

Activate your Azure trial subscription for the remaining labs



