Azure for Developers

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Edument



M0 Introduction

Course introduction



Goals

- Learn concepts of cloud computing
- Understand benefits of cloud computing
- Gain familiarity with core Azure services for building applications
- Get hands on experience using the Azure Portal

Lab requirements

- Microsoft account
- Accept email invitation to collaborate
- Visual Studio 2019 or better with C# and .NET 6 SDK
- Visual Studio Code (optional)
- Git

Lab Instructions

- Always choose region North Europe
- Always choose Resource Group Edument
- Many resource names need to be globally unique, add some random numbers as suffix
- Clone or download the https://github.com/devrex/AzureDev repo
- Feel free to use Visual Studio Community instead of VS Code
- Starter vs Solution

Schedule AM

- M0 Introduction
- M1 Cloud Computing
- M2 Azure Cloud LAB!
- M3 –Storage
- M4 Blob Storage LAB!
- Lunch

Schedule PM

- M5 Relational databases
- M6 Cosmos DB
- M7 Web applications
- M8 Containers on Azure
- M9 Azure Functions
- M10 Security
- M11 Azure Vault

M1 Cloud Computing

- Datacenter as a service
- Edument slide deck



M2 Azure Overview

- Edument slide deck
- Demo Azure Portal
 - Resource groups
 - Regions
 - Creating resources
- LAB Examine the portal https://portal.azure.com

M3 Data storage overview

- Edument slide deck
- Demo storage account

M4 Azure Blob Storage

- Edument slide deck
- Demo
- LAB! Learning Path 03: Develop solutions that use blob storage

M5 Relational Databases

- Relational databases on Azure
- Demo Azure SQL

Relational on Azure

- Azure Sql managed service
- Sql Managed Instance 100% Enterprise Edition compatible
- Install SQL Server on Virtual Machines (don't do it)
- Azure database for Mysql
- Azure database for PostgreSQL
- CosmosDB for PostgreSQL

M6 Azure Cosmos DB

- Edument slides
- Demo
- LAB if time permits
 Learning Path 04: Develop solutions that use Cosmos DB storage

M7 Hosting web applications

- Edument Slides
- Demo App Service, create app service plan
- LAB
 Learning Path 01: Implement Azure App Service Web Apps

M8 Containers on Azure

- Edument Slides
- Demo container instances (if time permits)
- LAB (if time permits)
 Learning Path 05: Implement containerized solutions

M9 Azure Functions

- Edument Slides
- Demo
- LAB (if time permits)
 Learning Path 02: Implement Azure Functions

M10 Security

• Edument slides?

M11 Azure Vault

- Edument slides
- Demo
- LAB! (if time permits)
 Learning Path 07: Implement secure Azure solutions