

Implementing Microsoft Azure Infrastructure Solutions (20533)

- **Formato do curso:** Presencial
- **Localidade:** Porto
- **Data:** 28 Set. 2018 a 01 Jul. 2022
- **Preço:** 1670€
- **Horário:** Pós-laboral - 2ª, 4ª e 6ª, das 18h30 às 21h30
- **Nível:** Avançado
- **Duração:** 35 horas

Este curso está direcionado para profissionais de IT que no seu dia-a-dia gerem AD DS, virtualization technologies e applications e pretendem integrar com as soluções Azure. Este curso é o segundo de uma serie de dois cursos.

Formação de preparação para exame, por forma a obter a certificação MCSD: Azure Solutions Architect.

Exame não incluído.

Destinatários

- Profissionais de IT que pretendem implementar, configurar e administrar serviços e virtual machines (VMs) no Azure
- Profissionais de IT que usam a solução Microsoft System Center para a gestão e orquestração de uma infraestrutura de servidores
- Administradores Windows que pretendem avaliar e migrar on-premises Active Directory roles e serviços para a cloud
- Profissionais de IT que querem usar a solução Windows Azure para alojar websites e mobile app backend services
- Profissionais de IT que são experientes em outras tecnologias Cloud non-Microsoft
- Profissionais de IT que pretendem fazer o exame de certificação 70-533

Pré-requisitos

- Conhecimentos de Redes de Computador: TCP/IP, UDP e DNS
- Conhecimentos de Microsoft Active Directory Domain Services

- Conhecimentos de Microsoft Hyper-V
 - Conhecimentos de IIS
 - Conhecimentos dos conceitos de base de dados
 - Conhecimentos dos de backup, resilience e disaster recovery
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Objectivos

- Serviços disponíveis na plataforma Azure e utilização dos Management Portals para gestão das instancias
 - Implementação e gestão de virtual networking no Azure e a integração com a infraestrutura on-premises
 - Planificação e criação de Azure virtual machines
 - Configuração, gestão e criação de Azure virtual machines para otimização de availability e reliability
 - Implementação e configuração de web apps e mobile apps
 - Implementação, gestão, backup e monitorização das soluções de storage
 - Planificação e implementação de data services baseado em SQL Database para aplicações
 - Implementação, configuração, monitorização e diagnostico de cloud services
 - Criação e gestão Azure AD tenants e configuração de integração de aplicações com o Azure AD
 - Integração de sincronização de on-premises Windows AD com Azure AD
 - Automatização de tarefas e operações no Azure management
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Metodologia

Pode assistir a este curso de forma:

- Presencial
 - [MOC On-demand](#)
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Programa

Introduction to Azure This module provides the students a high level introduction to Azure. After completing this module, students will be familiar with:

- Cloud technology.
- Microsoft Azure.
- The Azure Portals.
- Managing Azure with Windows PowerShell.

Implementing and Managing Virtual Networks In this module students will learn how to Implement Virtual Networks, why they are important and how to manage them post-implementation.

After completing this module students will be able to :

- Plan for Virtual Networks
- Create a Virtual Network.
- Administer Virtual Networks.
- Configure Point-to-Site VPNs.

Implement Virtual Machines In this module students will learn how to plan and implement virtual machines, including use of the Microsoft Assessment and Planning (MAP) for Azure toolkit. Students will learn about the differences between on-premise and Azure virtual machines, and of different ways to implement VMs.

After completing this module students will be able to:

- Plan and implement virtual machines.
- Use the Microsoft Assessment and Planning (MAP) for Azure toolkit.
- Understand the differences between on-premise and Azure virtual machines.
- Implement VMs in different ways .

Managing Virtual Machines Having previously learnt how to implement virtual machines students will now learn how to manage the machines they have implemented.

After completing this module, students will be able to:

- Configure Virtual machines.
- Manage Virtual Machines.
- Monitor Virtual Machines.

Implementing Websites In this module students will learn how to plan for website deployment, covering different levels of website and differing deployment models. They will then learn how to deploy a website, how to configure the site, how to monitor the performance of the site, what Webjobs are and how to use them and finally what Traffic Manager is and how it is used.

After completing this module, students will be able to:

- Explain the different types of website available and when to use them.
- Understand the different deployment options, and be able to use them to deploy a website
- Configure websites
- Monitor websites
- Create and deploy Webjobs
- Understand and use Traffic Manager

Planning and Implementing Storage

In this module students will look at types of storage, how to choose/plan storage, storage accounts, and affinity groups. They will move on to learn how implement BLOBs and azure files, recovery services and backup, diagnostics, monitoring, and analytics.

After completing this module, students will be able to:

- Identify different types of storage and when to use each one.

- Implement BLOBs and Azure files.
- Protect their data using recovery services and backup
- Monitor their storage, and about the analytics available to help with this task.

Planning and Implementing Data Services In this module students will look at the differences between SQL databases on-premise and Azure SQL databases. They will learn how to implement Azure SQL databases, how to migrate data to SQL Azure, how to monitor the databases once created in Azure and about business continuity using database copy and export, Self-service restore and Geo-replication.

At the end of this module students will be able to:

- Understand the differences in using SQL Azure databases and how to migrate their data to them.
- Keep their data secure in SQL Azure.
- Monitor their SQL Azure databases and recover data should it be required for business continuity.

Implementing Cloud Services and Mobile Services

In this module students will look at cloud services and how they compare to VM and website execution models. They will also look at Web roles and worker roles. They will then move onto learn about deploying and configuring cloud services. They will also look a mobile services, at how to create, deploy and configure. Finally they will learn about monitoring and diagnostics

After completing this module, students will be able to:

- Understand what a cloud service is, how it is deployed and configured.
- Understand what a mobile service is, how it is deployed and configured.
- Monitor and diagnose issues with the services.

Implementing Content Delivery Networks and Media Services In this module students learn what a content delivery network is and how to implement one. They then move on to look at Azure Media Services, and how to utilize media in Azure.

After completing this module, students will be able to:

- Explain what a content delivery network is and why they would want to use one.
- Implement a content delivery network and attach media to it
- Create a media account and be able to load and manage data within the account.

Implementing Azure Active Directory In this module students will learn how to implement Azure Active directory, and then manage users within the directory. They will also look at adding customer domains, at multi-factor authentication and at application integration with Azure active Directory. Finally they will learn about the features and benefits offered by Azure Active Directory Premium.

After completing this module, students will be able to:

- Implement and configure Azure Active Directory, including the use of multi-factor authentication and single sign-on.
- Have an understanding of Azure Active Directory premium and the benefits it offers above the standard

package.

Managing Active Directory in a Hybrid Environment In this module students learn about managing Active Directory in a Hybrid environment. They start by looking at extending the on-premises active directory into the cloud, and how to manage Office 365 users. They then move on to learn about Directory Synchronization (Dir Synch) and federation (AD FS).

After completing this module, students will be able to:

- Extend their on-premises active directory to Azure
- Implement Dir Synch and/or AD FS and to understand which is appropriate in a given situation.

Implementing Automation

This module starts with an introduction to automation and the components. The student then moves on to look at PowerShell Workflows, particularly the move from PowerShell scripts to workflows and finally looks at managing automation through creating and publishing runbooks, creating and scheduling jobs and monitoring job execution.

After completing this module, students will be able to:

- Understand the various automation components and know when and how to use them.
- Create PowerShell workflows and runbooks for use in automating their environment.