Migrating Application Workloads to Azure

Referencia
WS-050

Duración (horas)
12

Última actualización
9 marzo 2020

Modalidades
Presencial, OpenClass®, a medida

Examen
WS-050

Introducción

This workshop teaches IT Professionals how to migrate existing on-premises workloads and assets to the cloud, specifically to the Microsoft Azure platform. Students learn how to assess and evaluate an existing on-premises environment in preparation for a cloud migration. Students also learn how to monitor and optimize their Azure-based workloads to maximize return on investment (ROI) and use Azure services to protect and manage your virtual machines, applications, and data.

Objetivos

At the end of the course the students will be able to:

- Identify the tools and services specific to each phase of the migration.
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- Discover and assess on-premises workloads for migration to Azure
- Obtain deeper profiling of an environment using app dependency mapping and assessment customizations
- Perform an end-to-end migration of on-premises workloads to Azure using Azure Migrate
- Replicate data from an on-premises datacenter to Azure or to a secondary site
- Migrate data from existing data sources to Azure data platforms using the Database Migration Service
- Secure and manage migrated workloads using Azure Security Center, Azure Backup, and Log Analytics
- Ensure an effective business continuity strategy that includes high availability, disaster recovery
- Back up and protect Azure IaaS virtual machines from any location using the Azure Backup Service
- Define a recovery plan to ensure virtual machines fail over properly before running a full failover

Perfil de los alumnos

This workshop is for IT Administrators and staff who need to plan, implement and manage migrations of on-premises resources to Azure, or to replicate Azure virtual machines to other Azure locations. They take business requests from workload owners to migrate workloads to the cloud in order to take advantage of the benefits that a cloud-enabled strategy provides over a traditional datacenter approach. This role requires communicating and coordinating with different individuals within an organization's IT department and business groups, as well as vendors.

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Requisitos previos

The students should have the following prerequisites:

- IT Administrators start this role with experience on operating systems, virtualization, cloud infrastructure, storage structures, and networking. In addition, IT administrators should have experience or equivalent knowledge in administering an IaaS Azure infrastructure.
- Understanding of on-premises virtualization technologies, including: VMs, virtual networking, and virtual hard disks.
- Understanding of network configuration, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies.
- Understanding of Active Directory concepts, including domains, forests, domain controllers, replication, Kerberos protocol, and Lightweight Directory Access Protocol (LDAP).
- Understanding of resilience and disaster recovery, including backup and restore operations.
- Familiarity with using Azure, including the Azure portal, Cloud Shell, Azure PowerShell, CLI and ARM template.
- Understanding of Azure Active Directory and cloud identity management.
- Understanding of management of subscriptions, users, groups, and billing, and Azure policies.

Metodología

Active and participatory course through demonstrations, practical exercises and clinical analysis of users of all the theoretical topics taught by the instructor in order to deal with real cases of the related product. The trainer will also use different dynamics that allow group work in the classroom as challenges, evaluation exams and real cases to prepare for the associated Microsoft certification exam, if there is one.

Certificación

Continual evaluation based on group and individual activities. The faculty will give continuous feedback and at the end of the activities to each participant.

During the course the participants will complete an evaluation test that must be passed with more than 75%. They will have one hour available for its realization

Conditions of additional certification services are subject to the terms of the license owner or of the authorized certification authority.

Profesorado

Our team of highly qualified instructors combine training activities with the development of their profession as experts in the field of IT. Professionals certified by the major manufacturers capable of transferring an enjoyable and easy to understand technical concepts more abstract.

Documentación

A copy of the official Microsoft documentation.

Contenidos

1. Planning and Assessing and Azure Migration

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- Cloud Migration – Business Motivations, Goals and Outcomes
- Discovery and Assessment
- Lab: Discover and Assess On-Premises Resources for Migration

2. Introduction to Data Migration

- Azure Data Box
- Database Migration
- Lab: Migrate On-Premises SQL Server Database to Azure SQL Managed Instance

3. Implementing Migration using Azure Migrate Services

- Overview of Azure Migrate Server Migration
- VMware – Agentless Migration
- VMware – Agent-based Migration
- Securing Migrated Workloads
- Datacenter Migration using Microsoft Migration Factory
- Lab: Replicate Virtual Machines to Azure

4. Backup and Disaster Recovery in Azure

- Azure Backup Overview
- Implementing Azure IaaS Backup
- Azure to Azure Site Recovery
- Application Disaster Recovery

Acreditación

Se emitirá Certificado de Asistencia sólo a los alumnos con una asistencia superior al 75% y Diploma aprovechamiento si superan también la prueba de evaluación.

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