



Microsoft Azure Hands-on

40

Academic Hours

Microsoft Azure Hands-on

Overview

Cloud computing is a new form of Internet-based computing that provides shared computer processing resources and data to computers and other devices on demand. It is a model for enabling ubiquitous, on-demand access to a shared pool of configurable computing resources (e.g., computer networks, servers, storage, applications and services), which can be rapidly provisioned and released with minimal management effort. Basically, Cloud computing allows the users and enterprises with various capabilities to store and process their data in either privately owned cloud, or on a third-party server in order to make data accessing mechanisms much more easy and reliable. Data centers that may be located far from the user—ranging in distance from across a city to across the world. Cloud computing relies on sharing of resources to achieve coherence and economy of scale, similar to a utility (like the electricity grid) over an electricity network.

Microsoft Azure - is a cloud computing service created by Microsoft for building, testing, deploying, and managing applications and services through a global network of Microsoft-managed data centers. Microsoft Azure Cloud services can be accessed by software developers, cloud administrators and other enterprise IT professionals over the public internet or through a dedicated network connection. Azure Platform offers services for compute, storage, networking, big data, machine learning and the internet of things (IoT), as well as cloud management, security and developer tools.



Target Audience

This course is for Azure Administrators. Azure Administrators manage the cloud services that span storage, networking, and compute cloud capabilities, with a deep understanding of each service across the full IT lifecycle. They take end-user requests for new cloud applications and make recommendations on services to use for optimal performance and scale, as well as provision, size, monitor and adjust as appropriate. This role requires communicating and coordinating with vendors. Azure Administrators use the Azure Portal and as they become more proficient they use PowerShell and the Command Line Interface.



Objectives

This course teaches IT Professionals how to manage their Azure subscriptions, including access, policies, and compliance, as well as how to track and estimate service usage and related costs. Students also learn how cloud resources are managed in Azure through user and group accounts. Students learn how to grant appropriate access to Azure AD users, groups, and services through Role-based access control (RBAC). Students also discover the core monitoring tools and capabilities provided by Azure, including Azure Alerts and Activity Log. Students are then introduced to Log Analytics as a broad data analytics solution, and use this service to query and analyze operational data. Students then learn about the Azure Resource Manager deployment model, and how to work with resources, resource groups and ARM templates.



Content

Module 01

Cloud Computing Overview

- | What is cloud computing?
- | Cloud Computing models: SaaS, PaaS, IaaS
- | Cloud implementation models: Public, Private, Hybrid
- | Planning and design cloud services
- | Cloud Security & Privacy
- | Backup and Disaster Recovery
- | Main Cloud services overview (Compute, Storage, DB, Network)
- | Elasticity and scalability

Module 02

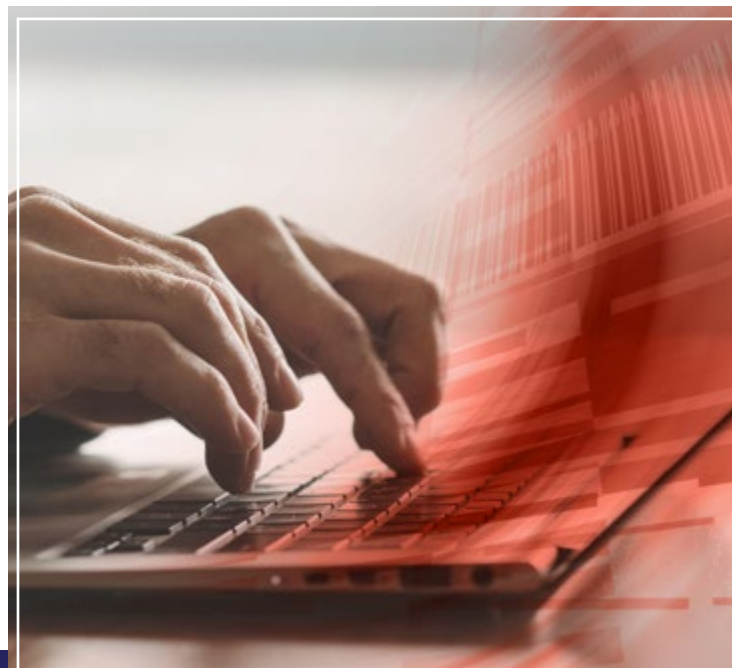
Microsoft Azure - Overview (Compute, Storage, Networking)

- | Azure Virtual Machines Overview
 - Creating Virtual Machines in the Azure Portal
 - Creating Virtual Machines (PowerShell)
 - Creating Virtual Machines using ARM Templates
 - Deploying Custom Images
 - Deploying Linux Virtual Machines
- | Overview of Virtual Machine Configuration
- | Virtual Machine Networking
- | Virtual Machine Storage
 - ARM templates
- | Azure storage accounts
 - Resource Groups

Module 03

Microsoft Azure – Compute, Storage, Networking

- | Virtual machine storage
 - Blob storage
 - Azure files
 - Structured storage
- | Shared access keys
- | Azure backup
- | Azure File Sync
- | Introducing Virtual Networks
 - Creating Azure Virtual Networks
 - Review of IP Addressing
 - Network Routing
 - Azure DNS Basics
- | Virtual Network Peering
- | Introduction to Network Security Groups
- | Implementing Network Security Groups and Service Endpoints



Module 04

Microsoft Azure - Security

- | Azure Users and Groups
 - Role-based Access Control
- | Exploring Monitoring Capabilities in Azure
- | Azure Alerts
- | Monitoring Metrics and Alerts
- | Azure Activity Log

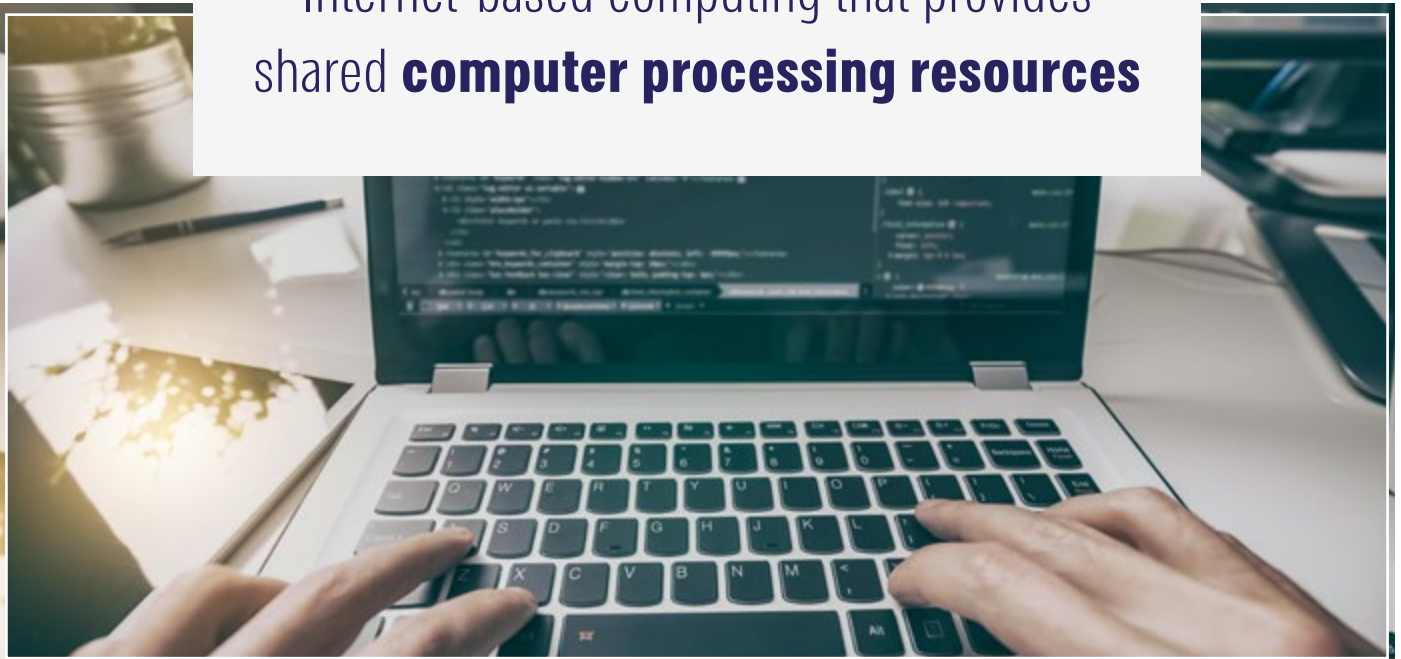
Module 05

Microsoft Azure - Security

- | Azure Active Directory Overview
- | Azure Domains and Tenants
- | Azure Users and Groups
- | Azure Roles
- | Self-Service Password Reset
- | Azure AD Identity Protection
- | Integrating SaaS Applications with Azure AD
- | Managing Devices
- | Azure Active Directory Integration Options
- | Azure AD Application Proxy



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info@hackerupro.com



www.hackerupro.com