

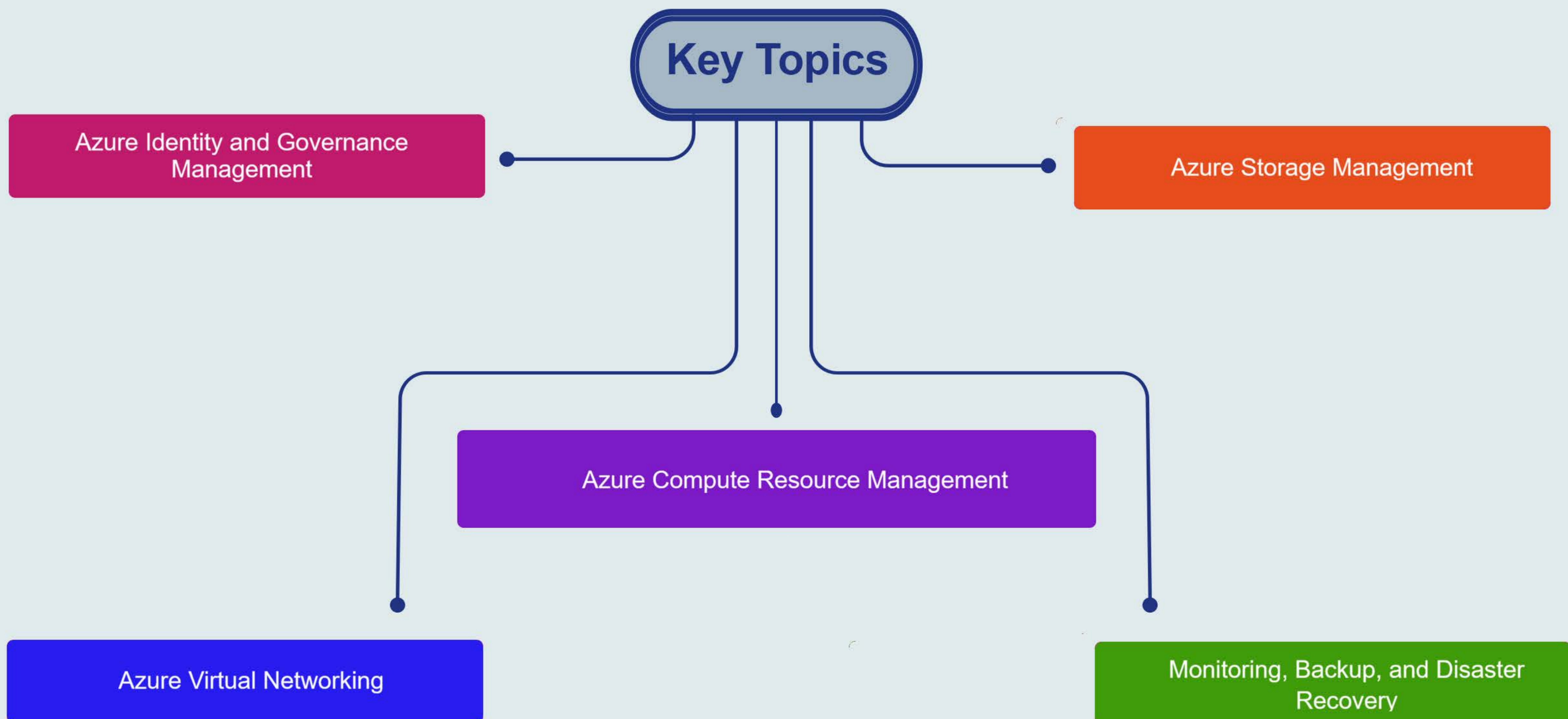
About the Course

Microsoft Azure is one of the world's leading cloud computing platforms used by organizations to build, deploy, and manage applications through Microsoft-managed datacenters. This course provides a comprehensive introduction to administering Azure environments based on the AZ-104 Microsoft Azure Administrator certification. Participants will learn how to manage Azure identities, governance, storage, compute resources, and virtual networks. The course focuses on practical administration skills required to operate and maintain cloud infrastructure efficiently. Students will gain hands-on experience with Azure Portal, Azure CLI, and PowerShell to manage resources. Core services such as virtual machines, storage accounts, and networking components are explored in depth. The course also covers monitoring, backup, and disaster recovery solutions to ensure high availability and reliability. Security and identity management using Microsoft Entra ID are included as key components of modern cloud administration. Participants will learn best practices for implementing governance through policies, role-based access control, and resource management. Automation techniques using templates and scripts will also be introduced. By the end of the course, learners will understand how to deploy, manage, and secure Azure resources in real-world environments. The course prepares participants to administer Azure environments in enterprise settings. It also aligns with the skills measured in the AZ-104 certification exam. Practical labs and real scenarios reinforce theoretical concepts. Upon completion, students will be ready to work as Azure administrators or manage cloud infrastructure effectively.

Learning Objectives



Key Topics



Pre Requisites

- **Cloud Computing Fundamentals**

What You Will Receive



Who Should Attend

This course is intended for:

- System Administrators transitioning to cloud environments
- IT professionals responsible for managing cloud infrastructure
- Network administrators and DevOps engineers
- Cloud engineers working with Microsoft Azure
- Individuals preparing for the AZ-104 certification exam



Syllabus



Azure Administration Overview

- Introduction to Microsoft Azure
- Azure architecture and core services
- Azure Portal, Cloud Shell, and CLI
- Resource groups and resource management



Manage Identities and Governance

- Microsoft Entra ID overview
- Users, groups, and roles
- Role-Based Access Control (RBAC)
- Azure subscriptions and management groups
- Azure Policy and resource locks



Implement and Manage Storage

- Azure Storage accounts
- Blob storage and containers
- File shares and disk storage
- Storage security and access keys
- Data redundancy and replication



Deploy and Manage Azure Compute

- Virtual Machines and VM sizes
- VM availability and scaling
- Azure App Services
- Containers and container instances
- Azure Kubernetes basics



Configure and Manage Virtual Networking

- Virtual networks and subnets
- IP addressing in Azure
- Network security groups (NSG)
- Azure Load Balancer and Application Gateway
- VPN Gateway and VNet peering

Syllabus



Monitor and Maintain Azure Resources

- Azure Monitor and metrics
- Log Analytics workspace
- Alerts and diagnostics
- Azure Backup
- Azure Site Recovery

Hands-on Training



- **Creating and Managing Azure Resources**
- **Managing Azure Identities**
- **Deploying Azure Storage**
- **Deploying Virtual Machines**
- **Configuring Azure Networking**
- **Monitoring and Backup**