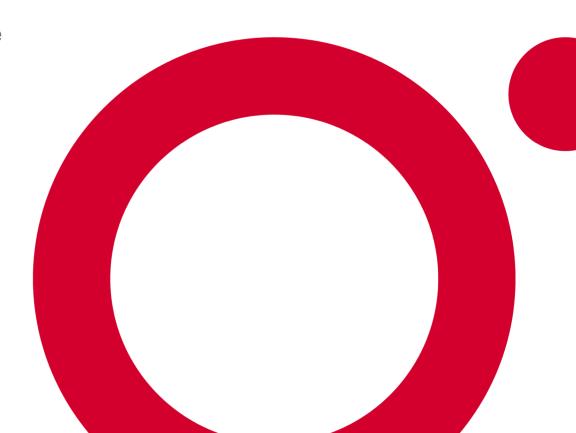
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AZ-104 Crash Course – Azure administrator certification



AZ-104 – Microsoft Azure Administrator

- Always review the latest skills measured https://docs.microsoft.com/learn/certifications/exams/az-104
- Exam covers a lot of topics
- You may get hands-on labs and / or scenarios
- Take your time
- If possible, schedule on-site exam



This crash course

- Doesn't cover everything in the exam
- Provides lots of hands-on labs to build up for additional study
- Covers the following exam topics:
- a) Virtual networking
- b) Core VM tasks
- c) Storage
- d) Identity and resource management



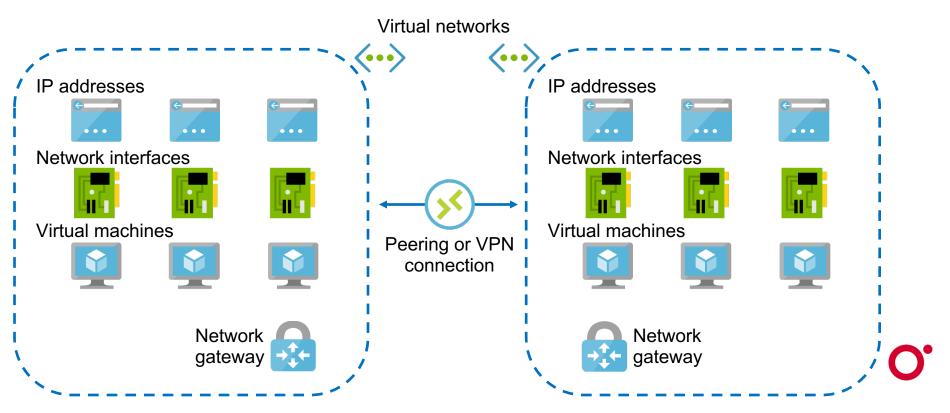
Objective: Configure and manage virtual networks

Objective: Implement and manage virtual networking

Objective: Create connectivity between virtual networks



Virtual network components



Exercise – Lab 01 worksheet

Objective: Implement and manage virtual networking

Objective: Create connectivity between virtual networks



Poll

How do you secure network access to resources?

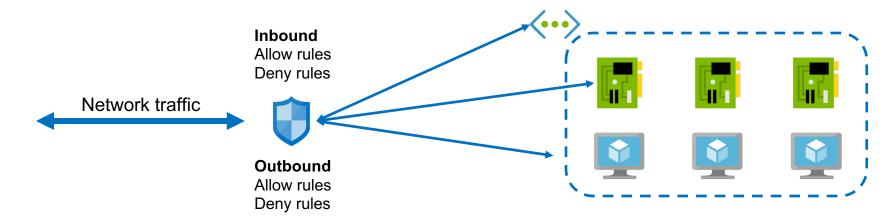
- a) Firewall and access rules
- b) Virtual private network (VPN)
- c) Demilitarized zone (DMZ)
- d) Other discuss in chat



Objective: Create and configure a Network Security Group (NSG)



Network security groups





Exercise – Lab 02 worksheet

Objective: Create and configure a Network Security Group (NSG)



Pulse check

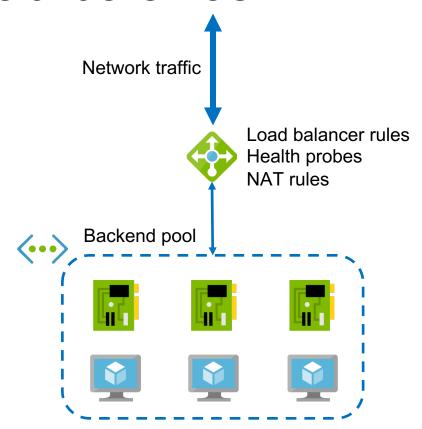
Virtual network basics and security



Objective: Implement Azure load balancer



Azure load balancer





Exercise – Lab 03 worksheet

Objective: Implement Azure load balancer



Objective: Configure name resolution



Exercise – Lab 04 worksheet

Objective: Configure name resolution



Questions?



5-minute break



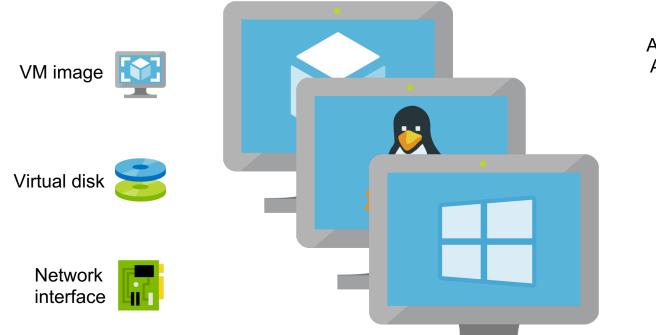
Objective: Deploy and manage Azure compute resources

Objective: Create and configure a VM for Windows and Linux

Objective: Automate deployment of VMs



Creating Azure virtual machines



Availability Set or Availability Zone







Exercise – Lab 05 worksheet

Objective: Create and configure a VM for Windows and Linux

Objective: Automate deployment of VMs



Poll

What is your preferred management tool?

- a) Web-based portal
- b) Azure PowerShell
- c) Azure CLI
- d) Other discuss in chat



Objective: Manage Azure VM



Exercise – Lab 06 worksheet

Objective: Manage Azure VM



Pulse check

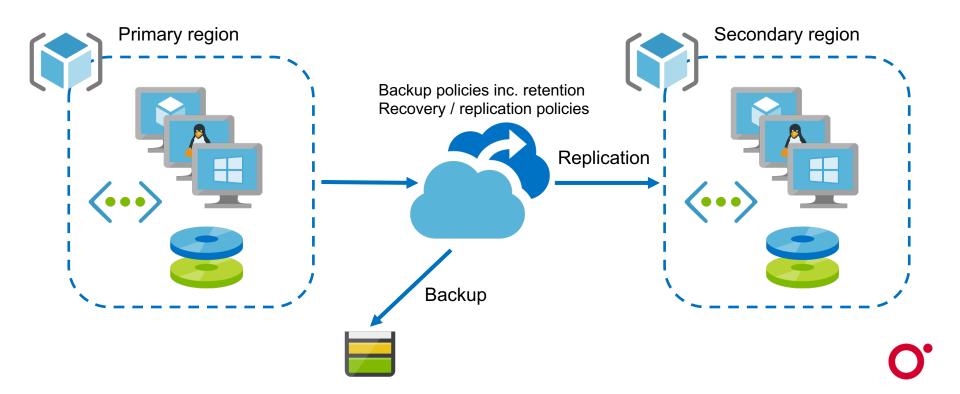
Core VM configuration tasks



Objective: Manage VM backups



Recovery Services Vault



Exercise - Lab 07 worksheet

Objective: Manage VM backups



Bringing together compute and networking



Exercise - Lab 08 worksheet

Test network security group rules Test load balancer and NAT rules



Questions?



5-minute break



Objective: Implement and manage storage

Objective: Create and configure storage accounts

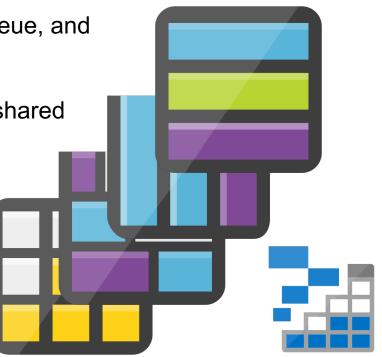


Azure Storage

Azure Storage provides Blob, Table, Queue, and File storage.

Access to storage is by access keys or shared access signatures (SAS).

You can use Azure Storage Explorer to browse - especially useful for Tables and Queues.





Exercise - Lab 09 worksheet

Objective: Create and configure storage accounts

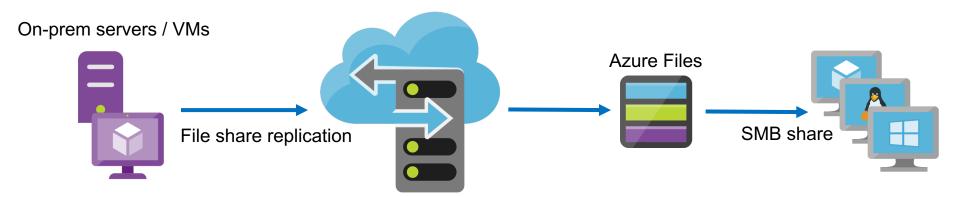


Presentation

Objective: Configure Azure files



Azure Files and Sync Service





Exercise - Lab 10 worksheet

Objective: Configure Azure files



Questions?



Objectives: Manage identities, and subscriptions and resources

Poll

What is your involvement with identity management in your environment?

- a) I'm an administrator I can create, edit, and delete users or groups
- b) I have helpdesk permissions I can create users or reset passwords
- c) I have no permissions other than to my own data
- d) Other share in the chat



Presentation

Objective: Manage Azure Active Directory (AD)

Objective: Manage Azure AD objects (users, groups, and devices)



Azure Active Directory (Azure AD)

Users, groups, guests, B2C





Domain Services, Identity Protection, Conditional







Self-service password reset, Azure Multi-Factor Authentication, password protection



Exercise - Lab 11 worksheet

Objective: Manage Azure Active Directory (AD)

Objective: Manage Azure AD objects (users, groups, and devices)



Presentation

Objective: Manage resource groups

Objective: Manage role-based access control (RBAC)



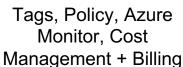
Subscription and resource management

Management groups, alerts, Advisor, RBAC, locks













Exercise - Lab 12 worksheet

Objective: Manage resource groups

Objective: Manage role-based access control (RBAC)



Questions?



Final questions?



Course survey



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Thank you

