

Exercise1:- Deploy Landing Zone

- Azure DevOps Pipeline:- Terraform consisting of a core Landing Zone (Azure resources ready for an environment to be migrated to)

Exercise2:- Discover and assess the on-premise environment

- Azure Migrate:- Server Assessment (creating migration assessment and using Azure migrate dependency visualisation)
- Setup dependency agent on each VM (Windows & linux)
- Dependency view/Service map to notice ports for NSG/ASG Work

Exercise3:- DomainController2 creation and setup DC Promo

- Deploy VM in Azure
- Configure as DC with promo setup
- Part of this will understand routing including Gateway VPN setup (Azure RouteTables and Routing service on Windows to be configured)
- Sites & Services setup

Exercise 4:- Migrate the application stack using Azure Migrate: Server Migration

- Setup Servers and migrate using Azure Migrate (enabling replication etc)
- Review and proposed NSG/ASG rules taken from exercise 2 dependency

Exercise 5:- Server Migration

- Perform server migrations to Azure
- Post-migration tasks on each VM (Log Analytics setup, static IP , AV etc)
- Confirm domain activity
- Configure ASG/NSG configuration taken from exercise 4 review

Exercise 6:- VM Backup and DR

- Enable VM backup for each VM
- Setup Azure Site Recovery for VMs (ASR)

Exercise 7: Azure Additional configurations

- Azure Bastion:- To allow team to RDP to VMs etc

- Azure Firewall:-
 - Will be perimeter firewall, can look at routing all outbound traffic via it
- Review recommendations from Azure Advisor and Security centre
- Azure Automation
- Azure alerting/Log analytics etc

Exercise 8: Perform DR test

- Azure Site Recovery & test to another region
- Would need to have landing zone cloned to another region etc as well