**Overview**

In this exercise, you will be enabling Virtual Machine backups and prepare and configure for a Disaster Recovery scenario.

**Tasks**

1. Enable Virtual Machine backup for each Virtual Machine
2. Setup Azure Site Recovery for VMs (to its DR region)

**Enable Virtual Machine backup for each Virtual Machine**

1. Create recovery services vault
2. Create required VM backup policy
3. Assign specific policy (policy needs to be created as below)to each VM
4. Run a backup for each VM

|  |  |
| --- | --- |
| **VM Name** | **Backup schedule** |
| Domaincontroller2 | Daily @ 11pm |
| SmartHotelWeb1 | Weekly on Sunday at 10pm |
| SmartHotelWeb2 | Weekly on Sunday at 10pm |
| SmartHotelSQL1 | Daily @ 11pm |

**Setup Azure Recovery for VMs (to its DR Region)**

1. Backbone infrastructure is required so a like-for-like clone can be configured (Create a pipeline and deploy Azure vNET etc to DR Region)
2. Configure a new Recovery services vault for Site Recovery
3. Enable ASR replication for each VM (this takes sometime to complete)

**Prior requirements for ASR:-**

**\*\*Review the Terraform state file, do not run new code until it has been reconfigured or it can remove the current resources due to state changing in your code\*\***

Storage account:- cache storage account in same region as current VMs

Automation account (in DR Region):- This automation account will be used by Site Recovery to update the Site Recovery extension on all the replicated machines associated with the vault.

vNET/landing zone to be deployed into DR resource group (No DC2 VM to be deployed this time)

Standard replication policy is fine for this

**Exercise targets**

1. Each VM to have a correctly backup policy in place along with at least 1 backup completed
2. Successful setup and configuration of ASR along with all VMs replication enabled and 100% ready to begin a migration if required