**Overview**

In this exercise you will be building a landing zone using Terraform to build and deploy using Azure DevOps.

The landing zone will be used the deploy any additional resources along with the migrated virtual machines using Azure Migrate.

Landing Zone backbone to consist of:-

Deploy landing zone into 1 Resource Group – confirm Resource Group Name

**Resource Group**

|  |  |
| --- | --- |
| Name | Landingzone-rg-(randomnumber) |

**Virtual Network**

|  |  |
| --- | --- |
| Name | Landing-zone-vnet |
| AddressSpace | 192.168.0.0/16 |
| Subnets:- |  |
| Gatewaysubnet | 192.168.0.0/24 |
| AzureFirewallSubnet | 192.168.1.0/24 |
| domaincontrollersubnet | 192.168.2.0/24 |
| smartHotelWAFSubnet | 192.168.3.0/24 |
| smartHotelWeb1Subnet | 192.168.4.0/24 |
| smartHotelWeb2Subnet | 192.168.5.0/24 |
| smartHotelSQLSubnet | 192.168.6.0/24 |
| Server2003Subnet | 192.168.7.0/24 |
| AppGwSubnet | 192.168.8.0/24 |
|  |  |

**Network Security Group**

|  |  |
| --- | --- |
| Name | Landingzone-nsg |

**Application Security Groups**

|  |  |
| --- | --- |
| DomainControllers | DCasg |
| WAF | WAFasg |
| SmartHotelWeb1 VM | Web1asg |
| SmartHotelWeb2 VM | Web2asg |
| SmartHotelSQL1 VM | SQLasg |

**Recovery Services Vaults**

|  |  |
| --- | --- |
| Recovery Service Vault for backups | Hyperv-migration-backup |
| Recovery Service Vault for Azue Site Recovery (ASR) | Hyperv-migration-asr |

**Storage Account**

|  |  |
| --- | --- |
| Storage Account | [uniquename]-hypervmigrationsa |

**Log Analytics**

|  |  |
| --- | --- |
| Name | (create\_name) |

**VPN** **Gateway**

|  |  |
| --- | --- |
| Name | Landingzone-gw |
| Public IP | Landingzone-gw-pip |

Machine generated alternative text:
Name 
DCasg 
landing-zone-migration 
landingzone-migration-nsg 
landingzone-routetable 
SQL lasg 
thomas-hyperv'-migration-asr 
thomas-hyperv'-mig ration- backup 
thomashypervmigration 
thomashypervmigrationsa 
WAFasg 
Web I asg 
WE32asg 
Type T 
Application security group 
Virtual network 
Network security group 
Route table 
Application security group 
Recover,' Services vault 
Recover,' Services vault 
GDg Analytics workspace 
Storage accænt 
Application security group 
Application security group 
Application security group 
Location T 
East US 2 
East US 2 
East US 2 
East US 2 
East US 2 
West US 2 
East US 2 
East US 2 
East US 2 
East US 2 
East US 2 
East US 2 

**DevOps Pipeline**

**See DevOps Pipeline.docx on initial setup**

* Service Principal to be created to successfully deploy using pipeline

The pipeline is to be built so it can be ran multiple times and additional resources can be added, such as

* Virtual Machine
* Update to Network Security Group etc

**Exercise targets**

1. Create successful Terraform Landing zone code
2. Run Azure DevOps pipeline multiple times with no issues
3. Connect VPN Gateway with RAS VPN on Hyper-V Host