11 maart 2022

PRESENTATIE PROJECT V1.0

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Project V1.0

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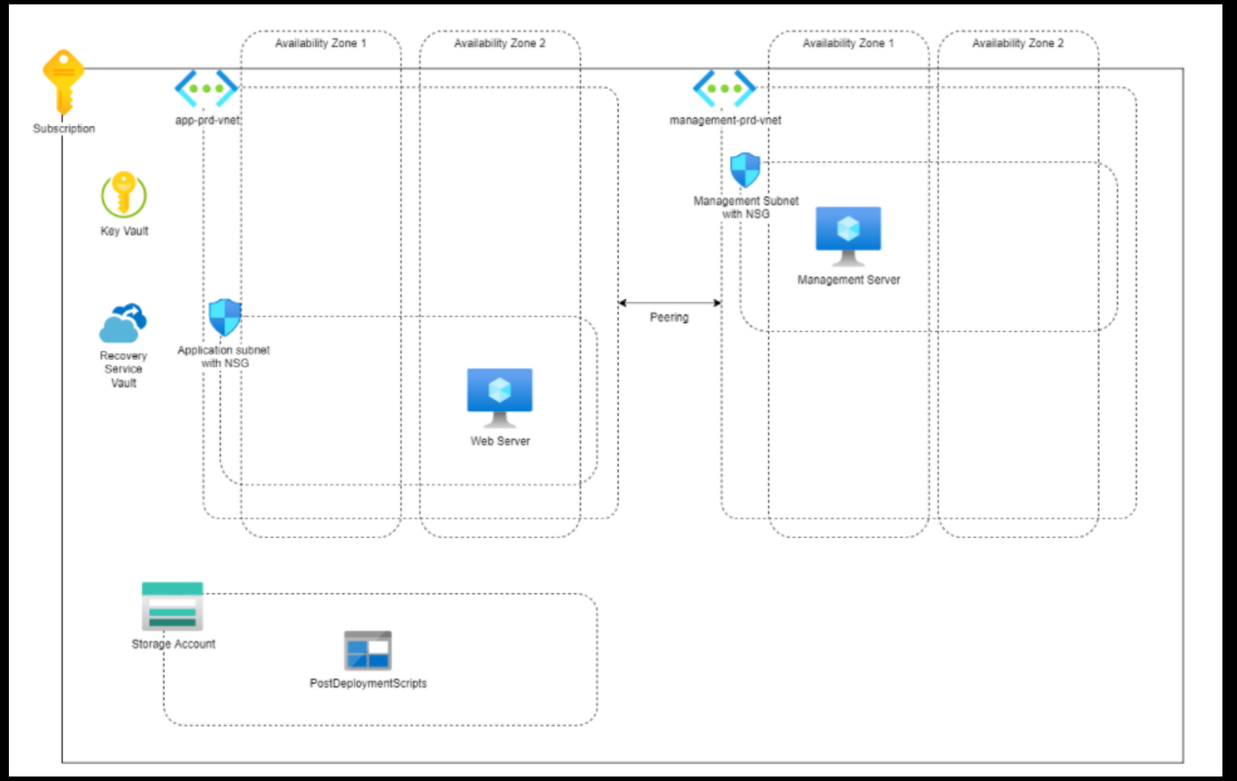
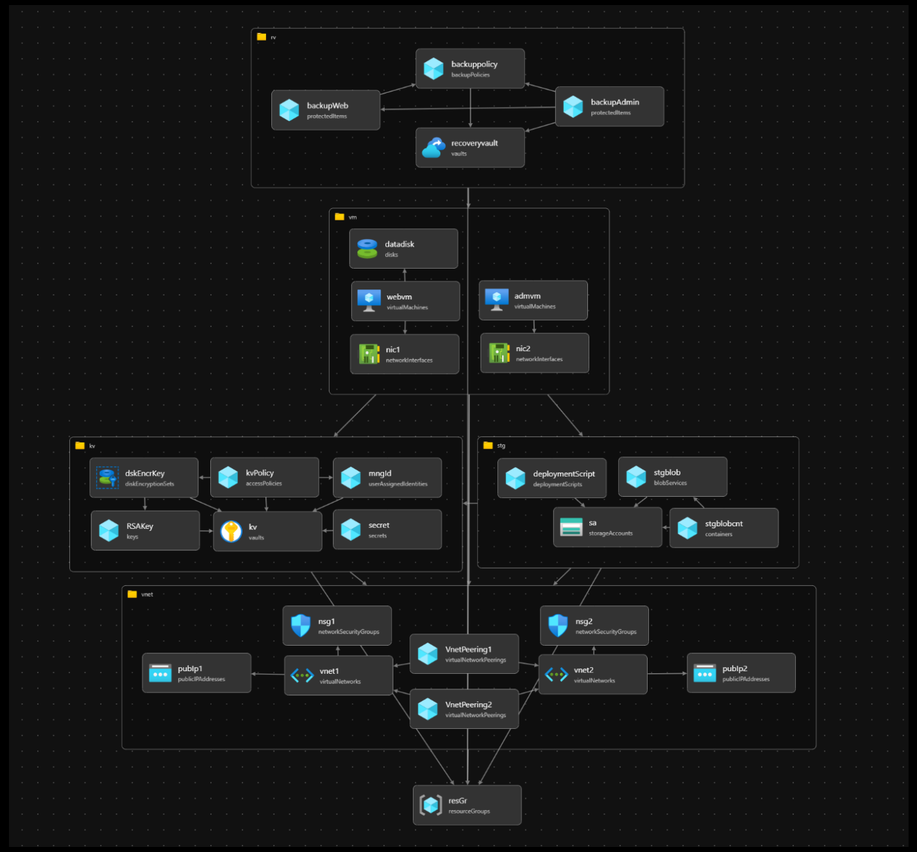
Ontwerp


Availability Zone 1
Availability Zone 2
Availability Zone 1
Availability Zone 2
Subscription
app-prd-vnet
management-prd-vnet
Key Vault
Management Subnet with NSG
Management Server
Recovery Service Vault
Application subnet with NSG
Peering
Web Server
Storage Account
PostDeploymentScripts

Opbouw dependancies



Code Snippets

```
//- init-based params
param recVltName string = 'rv${toLower(toLower(uniqueString(utcNow())))}'
param tenantId string = subscription().tenantId
param kvName string = '${clientVar.client}-KV-${toLower(uniqueString(utcNow()))}'
param stgName string = 'sto${toLower(toLower(uniqueString(utcNow())))}'

//////// CREATE RESOURCE GROUP //////////////
resource resGr 'Microsoft.Resources/resourceGroups@2021-04-01' = if(bool(deploy.rg)){···
}

/////////////// V-NET ///////////////////////
module vNet 'module/mod-vnetv2.bicep' = [for (vnetName, i) in vnetVar.vnetName: if(bool(deploy.vnet)){
  scope: resGr
  name:'${clientVar.client}-vNet${i}'
  params: {

    tags: tagsC
    clientVar:clientVar
    vnetVar: vnetVar
    privIp: privIp
    i: i
  }
}]
```

```
//------------- Create Public IP's ------------------------------------------
resource pubIp 'Microsoft.Network/publicIPAddresses@2021-05-01' = {
  name:'pubIp${i+1}'
  location: clientVar.location
  tags:tags
  zones: [
    '1'
  ]
  properties: {
    publicIPAllocationMethod: 'Static'
  }
}

//----------------- Create NSG's -------------------------------------------
resource nsg 'Microsoft.Network/networkSecurityGroups@2021-05-01' = {···
}
//------------------ Create VNET's -----------------------------------------
resource vnet 'Microsoft.Network/virtualNetworks@2021-05-01' = {
  name: vnetVar.vnetName[i]
  location: clientVar.location
  tags:tags
  properties: {
    addressSpace: {
      addressPrefixes: [
        vnetVar.vnetPrefix[i]
      ]
    }
    subnets: [
      {
        name: 'subnet${i}'
        properties: {
          addressPrefix: vnetVar.vnetPrefix[i]
          networkSecurityGroup: {
            id: nsg.id
          }
          serviceEndpoints: [
            {
              service: 'Microsoft.KeyVault'
            }
            {
              service: 'Microsoft.Storage'
            }
          ]
        }
      }
    ]
  }
}
```

Code Snippets

```
param vnetVar object
param vnetId0 string
param vnetId1 string

resource vnet 'Microsoft.Network/virtualNetworks@2021-05-01' existing = [for (vnetName, i) in vnetVar.vnetName: {
  name: vnetVar.vnetName[i]
}]

param tempArr array = [
  vnetId1
  vnetId0
]

resource vNetPeering 'Microsoft.Network/virtualNetworks/virtualNetworkPeerings@2021-05-01' = [for (vnetName, i) in v
  name: '${vnetVar.vnetName[i]}-peering'
  parent: vnet[i]
  properties: {
        allowVirtualNetworkAccess: true
        allowForwardedTraffic: false
        allowGatewayTransit: false
        useRemoteGateways: false
        remoteVirtualNetwork: {
          id: tempArr[i]
        }
      }
}]
```

Code Snippets

```
Write-Output "----------> Importing your ObjectId"
$output = az ad signed-in-user show --query objectId
Write-Output "----------> Generating a safe password"
$arrayParam = @{objId = $(ConvertFrom-Json $output);pwd = .\etc/New-Password -Length 25}
Write-Output "----------> Deploying your infrastructure"
New-AzSubscriptionDeployment -TemplateFile ./main1.1.bicep -TemplateParameterFile ./params.json -iVar
.\getPw.ps1
Write-Output " "
Write-Output "----------> Done =)"
Write-Output "----------> Have a nice day!"
```

Code Snippets

```
$tempVault = Get-AzKeyVault
$temp2 = $tempVault.VaultName[(($tempVault.VaultName -Length)-1)]
$secret = Get-AzKeyVaultSecret -VaultName $temp2 -Name "genPass" -AsPlainText
Write-Output "-------------------------------------------------------------------------"
Write-Output "------------------ Your deployment has finished ----------------------"
Write-Output "--------------------- Your password to log in: ------------------------"
Write-Output "-------------------------------------------------------------------------"
Write-Output "-----------------      $secret      -----------------"
Write-Output "-------------------------------------------------------------------------"
Write-Output "--- If you lose your password, retrieve it by running '.\getPw.ps1' ---"
Write-Output "-------------------------------------------------------------------------"
Write-Output "-------------------------------------------------------------------------"
```

Code Snippets

```
PS C:\Users\suher\OneDrive\Documents\Techgrounds\repo-suheri-AZ900\07_Project\Application> .\deploy1.0.ps1
----------> Importing your ObjectId
----------> Generating a safe password
----------> Deploying your infrastructure

Id                      : /subscriptions/1168811b-be55-443f-ad5d-bd1676feeb9e/providers/Microsoft.Resources/deployments/xyz
DeploymentName          : xyz-deploy
Location                : westeurope
ProvisioningState       : Succeeded
Timestamp               : 10-3-2022 20:32:52
Mode                    : Incremental
TemplateLink            :
Parameters              :
                          Name             Type                       Value
                          ===============  =========================  =========
                          clientVar        Object                     {"location":"westeurope","client":"XYZ","rgName":"bet
                          vnetVar          Object                     {"vnetName":["app-prd-vnet","management-prd-vnet"],"v
                          vmVar            Object                     {"diskSku":"StandardSSD_LRS","diskSizeGB":50,"stgType
                          kvVar            Object                     {"location":"westeurope","objectId":"d57cde6f-e234-44
                          tagsC            Object                     {"Client":"XYZ","Version":"1.1","DeployDate":"03/10/2
                          sshK             String                     "---- BEGIN SSH2 PUBLIC KEY ----\r\nComment: \"rsa-ss
                          11d6UNIOCLZmcCE8szlN2/j19\r\nPmcwJyX6siXCArCmT88rqe+dEXlG0i1UQASHUdb/jMWHGQu90LvWWuPUZ2fP1jjC\r\n
                          uRXaIZEO7gKm5\r\n9KVMQ9eLpQ==\r\n---- END SSH2 PUBLIC KEY ----"
                          iVar             SecureObject               null
                          privIp           SecureString               null
                          deploy           Object                     {"rg":true,"vnet":true,"peer":true,"kv":true,"sa":tru
                          recVltName       String                     "rvdqbhqhhet3nrq"
                          tenantId         String                     "de60b253-74bd-4365-b598-b9e55a2b208d"
                          kvName           String                     "XYZ-KV-dqbhqhhet3nrq"
                          stgName          String                     "stodqbhqhhet3nrq"

Outputs                 :
DeploymentDebugLogLevel :

WARNING: We have migrated the API calls for this cmdlet from Azure Active Directory Graph to Microsoft Graph.
Visit https://go.microsoft.com/fwlink/?linkid=2181475 for any permission issues.
--------------------------------------------------------------------------------
------------------ Your deployment has finished ------------------------
--------------------- Your password to log in: -------------------------
--------------------------------------------------------------------------------
-----------------       ]pPZQg4f+1nRNwJyUzkX>v@=2       -----------------
--------------------------------------------------------------------------------
--- If you lose your password, retrieve it by running '.\getPw.ps1' ---
--------------------------------------------------------------------------------
--------------------------------------------------------------------------------

----------> Done =)
----------> Have a nice day!
```

Live Demo

Q(&)A