Pre -requisite for azure Migrate

VM requirement

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| **VM Requirements** | |
| Appliance server | Windows Server 2016, with 32 GB of memory, eight vCPUs, around 80 GB of disk storage. |
| VDDK | To use the appliance for agentless migration of servers, the VMware vSphere VDDK must be installed on the appliance server. |
| VMware requirements | If you deploy the appliance as a server on vCenter Server, it must be deployed on a vCenter Server running 5.5, 6.0, 6.5, 6.7 or 7.0 and an ESXi host running version 5.5 or later. |
| Free disk space (cache) | 600 GB (Need Extra disk on VM for cache) |
| Free disk space (retention disk) | 600 GB (Need Extra disk on VM for retention) |
| NIC type | VMXNET3 (if the appliance is a VMware VM) |
| TLS | TLS 1.2 should be enabled. |
| Group policies | Don't enable these group policies: |
| - Prevent access to the command prompt. |
| - Prevent access to registry editing tools. |
| - Trust logic for file attachments. |
| - Turn on Script Execution. |
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| IP address type | Static |
| Ports | 443 (Control channel orchestration) |
| 9443 (Data transport) |
| NIC type | VMXNET3 |
| Switch | The VM should have an external virtual switch. It requires a static or dynamic IP address. |
| Permissions on Appliance server | To access the appliance configuration manager locally or remotely, you need to have a local or domain user account with administrative privileges on the appliance server. |
| Permissions on Windows VMs | A Local admin account on all servers (in scope). |
| **Permissions on Linux VMs** | A root user account, or an account that has these permissions on /bin/netstat and /bin/ls files: |
| CAP\_DAC\_READ\_SEARCH |
| CAP\_SYS\_PTRACE |
| Set these capabilities by using the following commands: |
| sudo setcap CAP\_DAC\_READ\_SEARCH,CAP\_SYS\_PTRACE=ep /bin/ls |
| sudo setcap CAP\_DAC\_READ\_SEARCH,CAP\_SYS\_PTRACE=ep /bin/netstat |

Access requirement

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| Subscription | Contributor permissions |
| Azure Active Directory | Permissions to register Azure Active Directory (Azure AD) apps. App Administartor permissions. |
| Subscription \ Key Vault | User Access Administrator permissions in the Azure subscription to create an instance of Azure Key Vault |

Port access

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| **PORT ACCESS** | |
| **Device** | **Connection** |
| Appliance | Outbound connections on port 443 to upload replicated data to Azure, and to communicate with Azure Migrate services orchestrating replication and migration. |
| vCenter Server (Within Onprem) | Inbound connections on port 443 to allow the appliance to orchestrate replication - create snapshots, copy data, release snapshots. |
| vSphere/ESXI host | Inbound on TCP port 902 for the appliance to replicate data from snapshots. Outbound port 902 from ESXi host. |

URL access requirement for appliance

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| **URL** | **Details** |
| \*.backup.windowsazure.com | Used for replicated data transfer and coordination |
| \*.store.core.windows.net | Used for replicated data transfer and coordination |
| \*.blob.core.windows.net | Used to access storage account that stores replicated data |
| \*.hypervrecoverymanager.windowsazure.com | Used for replication management operations and coordination |
| https://management.azure.com | Used for replication management operations and coordination |
| \*.services.visualstudio.com | Used for logging purposes (It is optional) |
| time.windows.com | Used to check time synchronization between system and global time. |
| https://login.microsoftonline.com | Appliance setup needs access to these URLs. They are used for access control and identity management by Azure Active Directory |
| https://secure.aadcdn.microsoftonline-p.com |
| https://login.live.com |
| https://graph.windows.net |
| https://login.windows.net |
| https://www.live.com |
| https://www.microsoft.com |
| https://dev.mysql.com/get/Downloads/MySQLInstaller/mysql-installer-community-5.7.20.0.msi | To complete MySQL download. In a few regions, the download might be redirected to the CDN URL. Ensure that the CDN URL is also allowed if needed. |

Implementation :

1. Create Resource group :

Graphical user interface, text, application, email

Description automatically generated

1. Create azure migrate Project with Public endpoint .

Graphical user interface, application

Description automatically generated

1. Now click on discover

Graphical user interface, application

Description automatically generated

1. Select Vmware as source as agentless replication

Graphical user interface, application

Description automatically generated

1. Generate Project key by giving name of appliance

Name -chssrvazm04

Graphical user interface, application

Description automatically generated

1. Download OVF template to deploy appliance in VCentre

Graphical user interface, text, application, email

Description automatically generated

1. Create appliance on VCentre using this OVA .

Graphical user interface, text, application, email

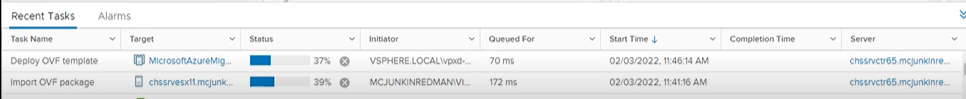
Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, application

Description automatically generated



1. Login on to appliance and assigned static IP.

Graphical user interface, text, application

Description automatically generated

1. Open IE and and configure Appliance .

Graphical user interface, application

Description automatically generated

1. Download Vmware virtual disk development KIT .

Graphical user interface, text, application

Description automatically generated

10 .Register with azure Migrate with our ID , access level App Administrator permissions or Cloud App administrator

Graphical user interface, text, application

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11.Register with Vcentre with service account having read access on VCentre

Graphical user interface, application, Teams

Description automatically generated

1. Once registered with VCentre got azure migrate project and we will find all VM of VCentre trtgot discovered in Azure migrate project.

Graphical user interface, text, application

Description automatically generated