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AZURE MIGRATION

**For video reference**

Url: <https://youtu.be/QGRIU4A6dhI>

**Prerequisites for Azure Migration:**

* Eliminate legacy hardware
* Address end-of-support for software
* Reduce capital expense
* Free up datacenter space
* Quickly realize return on investment.

**Migration Methods:**

1. Hyper-V Virtual Machine to Azure Cloud using Azure Site Recovery.
2. Oracle Virtual Box Virtual Machine to Azure Cloud using Azure Site Recovery.

**Method:1**

**Hyper-V VM to Azure Cloud using Azure Site Recovery:**

* Open Hyper-V VM on local system where the server is running.
* Open Azure portal and search for Recovery Service Vaults and create a new vault.
* Name: rsystemsVault
* Subscription: “select your subscription”
* Resource Group: “Select resource group/create a new one”
* Location: “Maintain the common regions for the better situation”
* Now, open the service vault which we deployed just now.
* Got to “Site recovery” (For On-Premises machines) and select Prepare Infrastructure and then follow the below process
* **Protection goal:**
* Where are your machines located: On Premises?
* Where do you want to replicate: To Azure?
* Are your machines virtualized: Yes, with Hyper-V
* Are you using system center VMM to manage your Hyper-V hosts: NO
* **Source Prepare:**
* Select Hyper – V site: Either choose existing or can create a new one.
* Server Type: Hyper – V Server: Configure the Hyper – V Server
* **Target Prepare:**
* Select Azure Subscription: Select your subscription
* Select the deployment model used after failover: Resource Manager
* Configure the respective Storage Account
* Configure the respective Virtual Network
* **Replication Settings Prepare:**
* Click on” Create & Associate” and configure following details
* Name: HyperV-Replication
* Source Type: Hyper-V
* Target Type: Azure
* Copy frequency: 5 min
* Recovery point retention in hours: 2 hrs.
* App-consistent snapshot frequency in hours: 1
* Initial replication start time: Immediately
* Associated Hyper-V site: Enter Site Name
* **Deployment Planning Select:**
* Have you completed deployment planning: I will do it later
* Got to “Site recovery” (For On-Premises machines & Azure VM’s)
* **Replicate Application: Enable Replication**
* **Source Configure**
* Source: On Premises
* Source Location: Select from dropdown (Website Name)
* **Target Configure**
* Target: Azure
* Subscription: select the subscription
* Post-failover resource group: Select the resource group
* Post-failover deployment model: Resource Manager
* Storage Account: Select
* Azure Network: Configure later
* **Virtual Machines**

Once we configured the replication settings perfectly then our server which was in local Hyper-V should list here.

So, select the server now from the dropdown.

* **Properties:** Configure properties

Now configure the same configuration which we are using in the local for VM like

* Name: Automatically it will get once it is linked with Hyper-V
* OS TYPE: Windows
* Need to select for VM: NANO-01
* Need to select for VM: NANO-01(4.00 GB)
* Fix per VM: select which you want to choose
* **Replication Settings:** Replication Policy

Select the Replication Policy which we created in previous steps

* Now, click on Enable Replication
* **Manage Recovery Plans:**

Create a new recovery plan as shown below,

* **Name:** Hyper-V
* **Source:** Your source
* **Target:** Your Destination
* Allow items with deployment model: Resource Manager
* **Select Items:** You can select the items which you want to deploy from On Premises to Azure.
* Now, go to local Hyper-V to check whether our replications on azure are successfully reflected with respect to our local Hyper-V or not?
* Now, you can able to see a new option like Replication will be available in our Hyper-V
* Right click on replication you can see option like
* Pause Replication
* Cancel Initial Replication
* View Replication Health