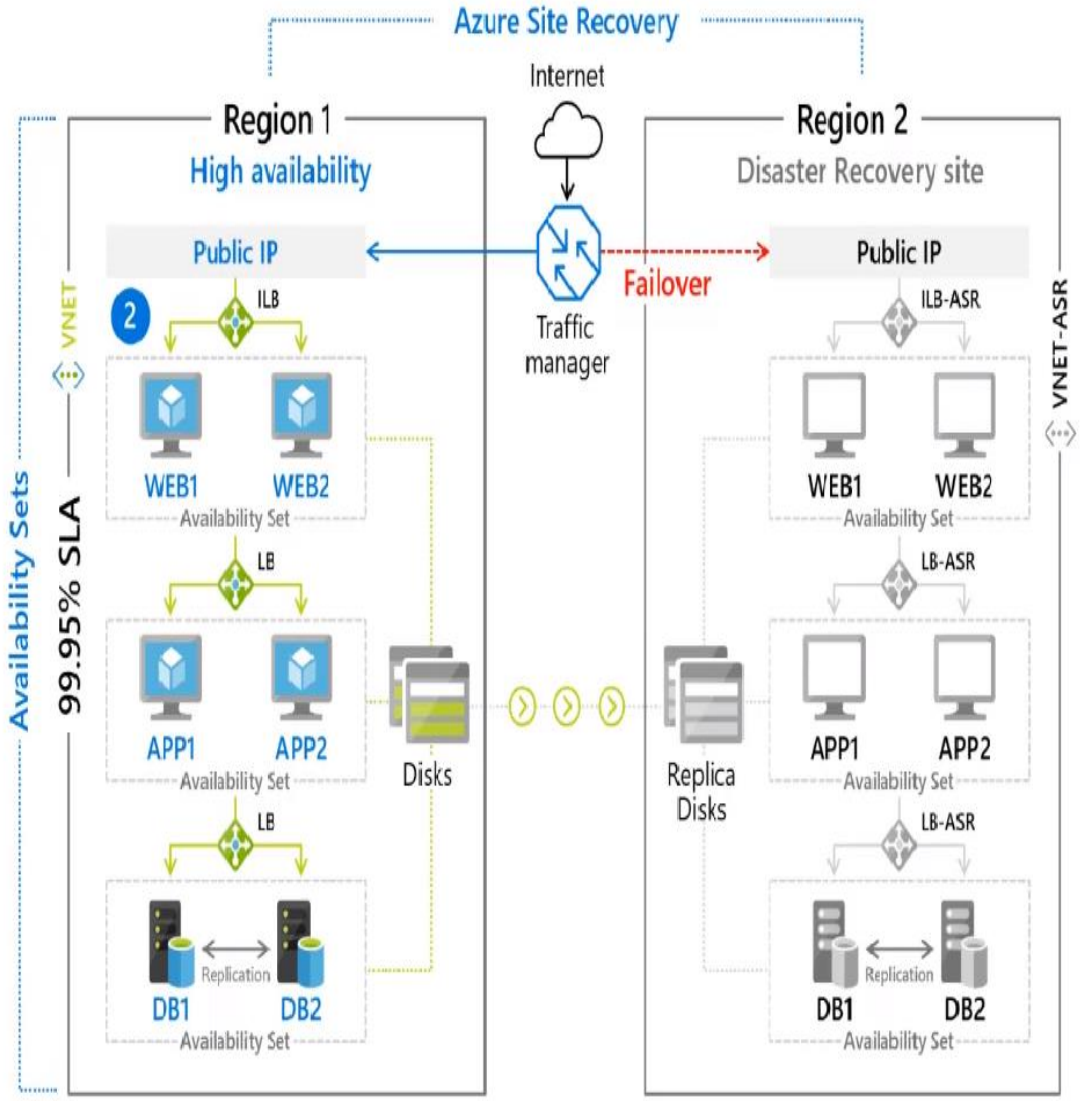
DISASTER SITE RECOVERY



We can replicate the virtual machines to another Azure region for business continuity and disaster recovery needs.

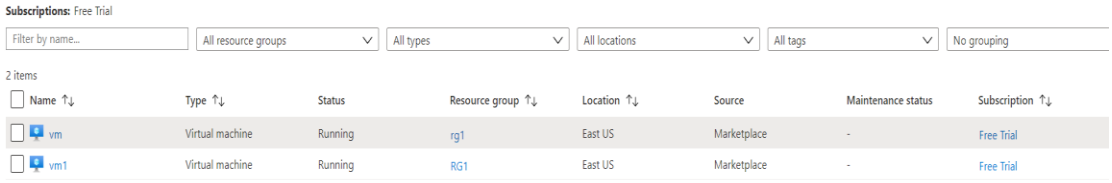
We will create a Virtual Machine now using Azure powershell using below script.

```
New-AzVM -ResourceGroupName rg1 -Name vm -Location EastUS
-VirtualNetworkName vnet -SubnetName default
-SecurityGroupName security_grp -PublicIpAddressName pubIP -
OpenPorts 80,443,3389
```

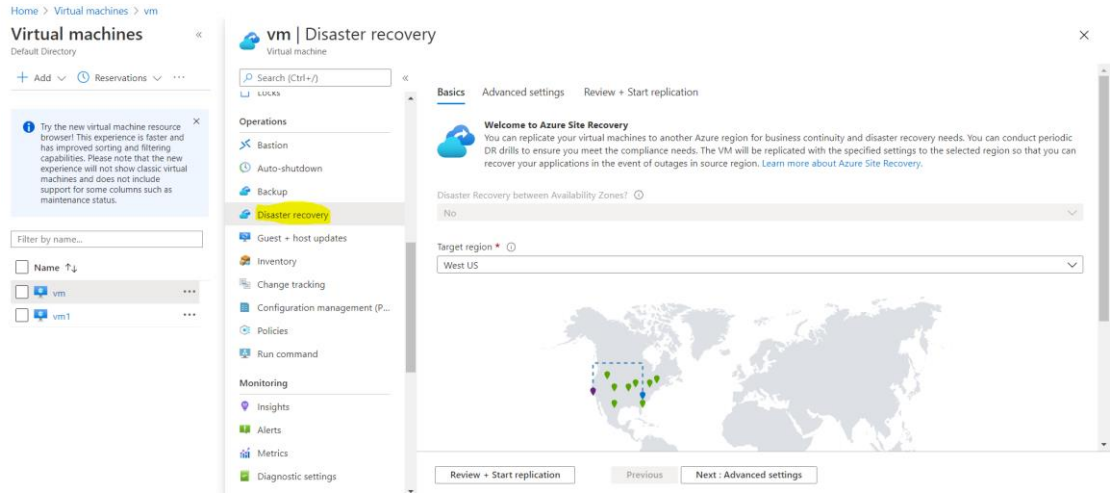
It'll ask Username and Password - Give username and password of your choice.

```
PS /home/phanikrishna> New-AzVM -ResourceGroupName rg1 -Name vm -Location EastUS -VirtualNetworkName vnet -SubnetName default -SecurityGroupName security_grp -PublicIpAddre
ssName pubIP -OpenPorts 80,443,3389

cmdlet New-AzVM at command pipeline position 1
Supply values for the following parameters:
Credential
User: azuser-vm
Password for user azuser-vm: ********



ResourceGroupName       : rg1
Id                      : /subscriptions/fe791130-a07d-4c99-b765-1c53aa354e6e/resourceGroups/rg1/providers/Microsoft.Compute/virtualMachines/vm
VmId                    : 189cdd0a-fb90-4cd5-8c58-90f650b576ea
Name                    : vm
Type                    : Microsoft.Compute/virtualMachines
Location                : eastus
Tags                    : {}
HardwareProfile         : {VmSize}
NetworkProfile          : {NetworkInterfaces}
OSProfile               : {ComputerName, AdminUsername, WindowsConfiguration, Secrets, AllowExtensionOperations, RequireGuestProvisionSignal}
ProvisioningState       : Succeeded
StorageProfile          : {ImageReference, OsDisk, DataDisks}
FullyQualifiedDomainName : vm-e60854.EastUS.cloudapp.azure.com
```

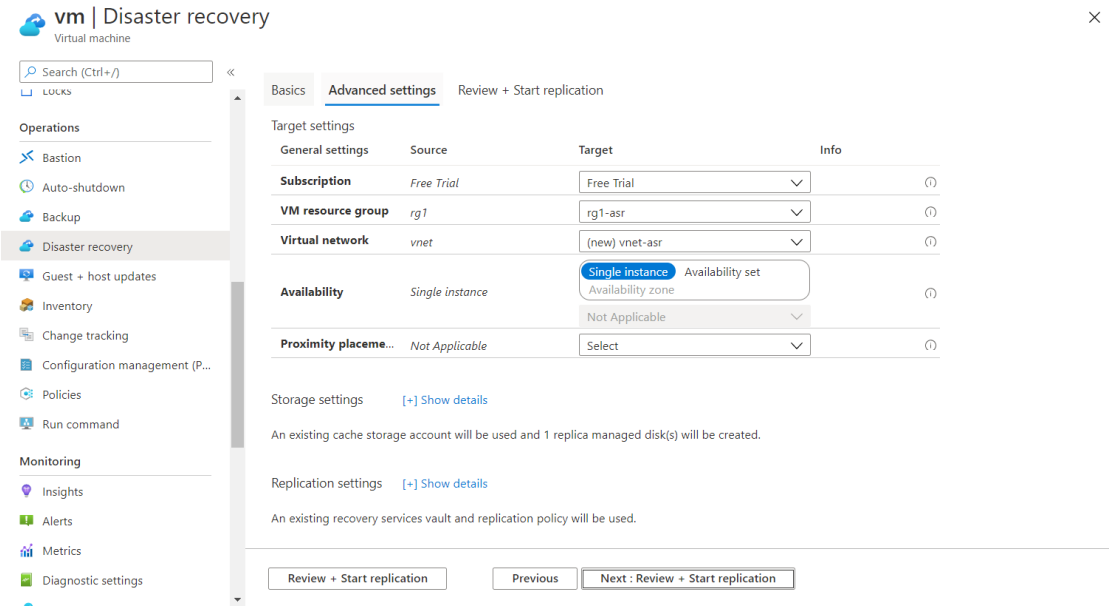
Once VM is created it'll reflect in azure portal



Now go to -> Disaster Recovery in "vm" virtual machine



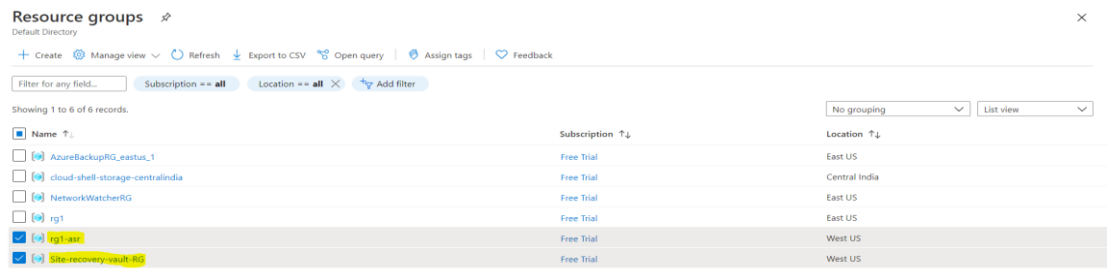
Azure will recommend replication region as seen in above image (Target region : West US) -> Click on Next : Advanced Settings

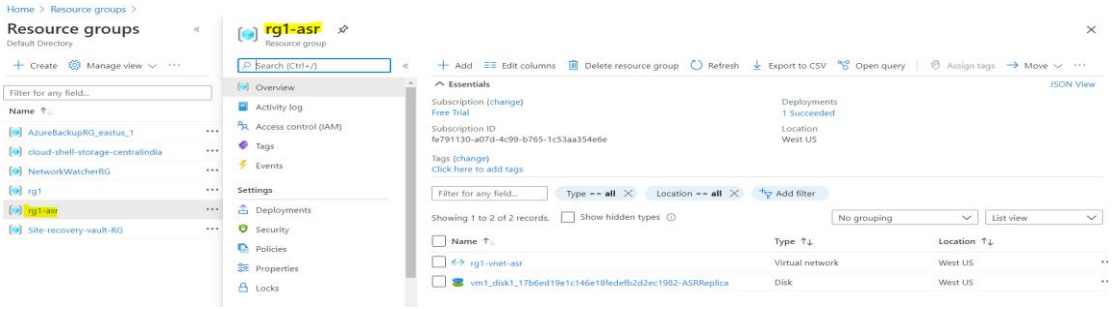


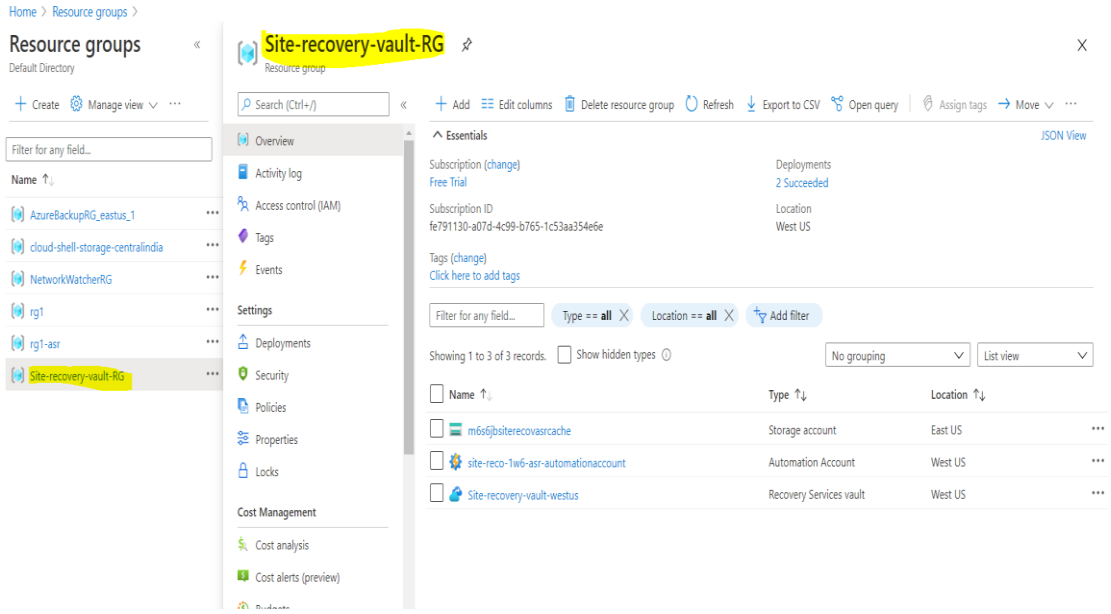
As we can see it'll replicate resource group, vnet etc with "-asr". After replication starts it'll take approx 30-60 mins hour to replicate and reflect in azure portal.

REST ALL LEAVE AS DEFAULTS AND CLICK REVIEW + Start replication.

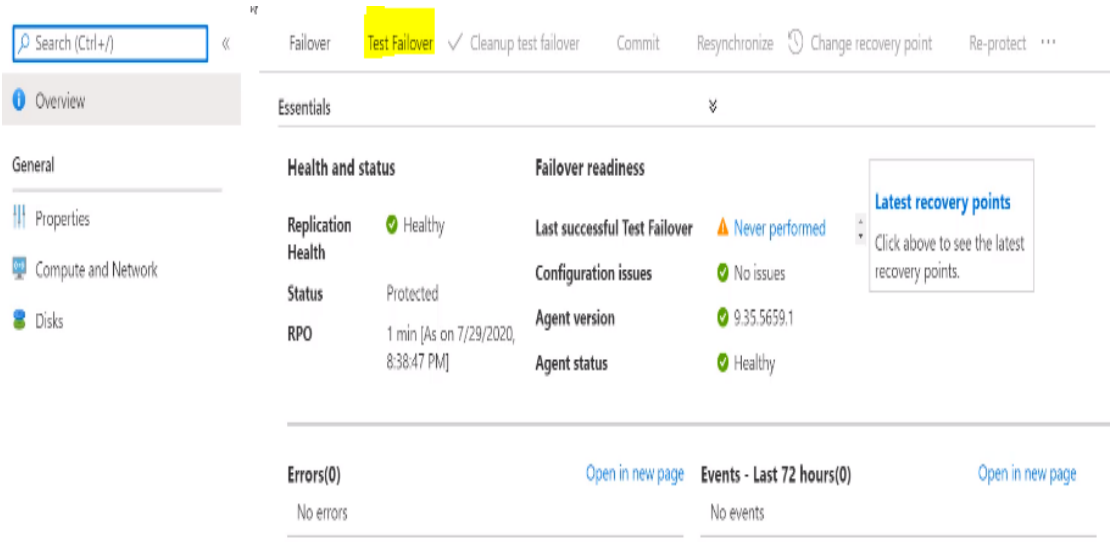
After replication has been completed we can see it has created two resource groups "rg1-asr" & "site-recovery-vault-RG" with required resources.







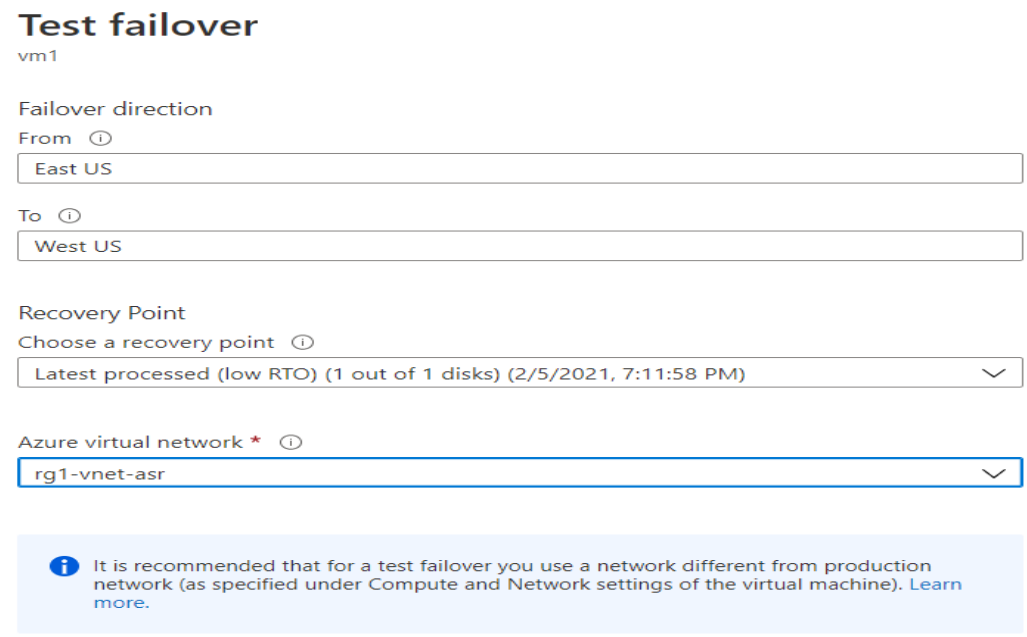
Now we can test the disaster recovery using **Test Failover**.



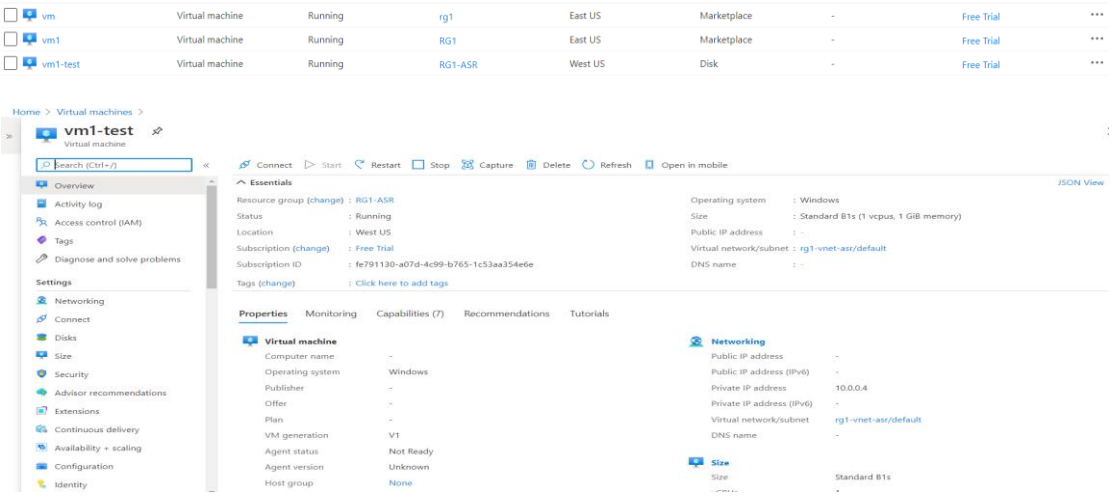
Click on Test Failover ->

From : East US
To : West US
Azure virtual network : rg1-vnet-asr

REST ALL LEAVE AS DEFAULTS AND CLICK OK.

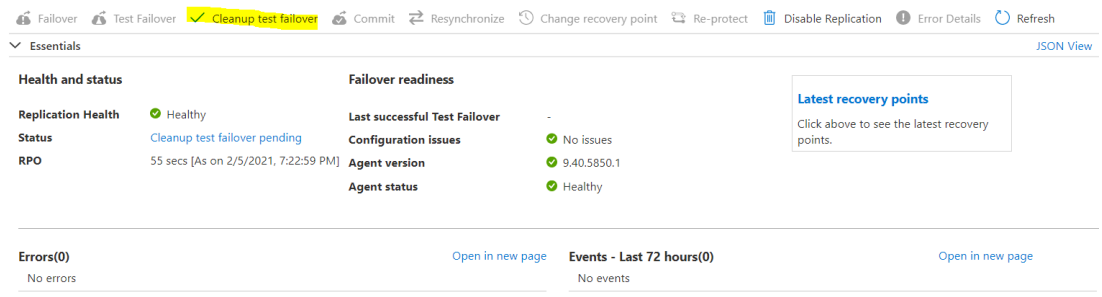


After Test Failover has been initiated we can see a new Virtual Machine is replicated in West US region.

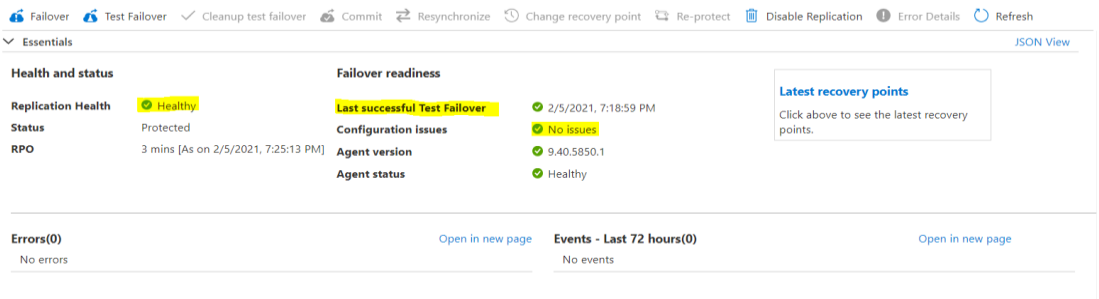


Now we can cleanup the resources created by Test Failover.

Goto -> Disaster Recovery in “vm” Virtual Machine -> Click on Cleanup test failover -> Give the comments -> Click OK.


Failover
Test Failover
Cleanup test failover
Commit
Resynchronize
Change recovery point
Re-protect
Disable Replication
Error Details
Refresh
Essentials
JSON View
Health and status
Replication Health
Healthy
Status
Cleanup test failover pending
RPO
55 secs [As on 2/5/2021, 7:22:59 PM]
Failover readiness
Last successful Test Failover
-
Configuration issues
No issues
Agent version
9.40.5850.1
Agent status
Healthy
Latest recovery points
Click above to see the latest recovery points.
Errors(0)
Open in new page
No errors
Events - Last 72 hours(0)
Open in new page
No events

Home > Virtual machines > vm1 > vm1 >
Test failover cleanup
vm1
Notes
Works Great!
Testing is complete. Delete test failover virtual machine(s).
OK


Failover
Test Failover
Cleanup test failover
Commit
Resynchronize
Change recovery point
Re-protect
Disable Replication
Error Details
Refresh
Essentials
JSON View
Health and status
Replication Health
Healthy
Status
Protected
RPO
3 mins [As on 2/5/2021, 7:25:13 PM]
Failover readiness
Last successful Test Failover
2/5/2021, 7:18:59 PM
Configuration issues
No issues
Agent version
9.40.5850.1
Agent status
Healthy
Latest recovery points
Click above to see the latest recovery points.
Errors(0)
Open in new page
No errors
Events - Last 72 hours(0)
Open in new page
No events