

## AZURE SITE RECOVERY

- Azure Site recovery is Business Continuity and Disaster Recovery solution
- It Replicate Azure VM from a primary region to another region

- When an outage occurs at your primary region, you fail over to secondary region

After the primary region is running again, you can fail back to it

- Failover isn't automatic. You initiate failover from portal
- When you failover, Site Recovery automatically creates VM in secondary region

Create a recovery service vault in secondary region

## **FAILOVER:-**

- Start replication from primary to secondary
- Perform failover from primary to secondary
- Perform Commit

## **FAILBACK:-**

- Re protect from secondary to primary
- Perform failover from secondary to primary
- Perform Commit

## Region support

Azure Site Recovery allows you to perform global disaster recovery. You can replicate and recover VMs between any two Azure regions in the world. If you have concerns around data sovereignty, you may choose to limit replication within your specific geographic cluster. The various geographic clusters are as follows:

Geographic cluster	Azure regions
America	Canada East, Canada Central, South Central US, West Central US, East US, East US 2, West US, West US 2, West US 3, Central US, North Central US
Europe	UK West, UK South, North Europe, West Europe, South Africa West, South Africa North, Norway East, France Central, Switzerland North, Germany West Central, UAE North, UAE Central (UAE is treated as part of the Europe geo cluster)
Asia	South India, Central India, West India, Southeast Asia, East Asia, Japan East, Japan West, Korea Central, Korea South
JIO	JIO India West
Australia	Australia East, Australia Southeast, Australia Central, Australia Central 2
Azure Government	US GOV Virginia, US GOV Iowa, US GOV Arizona, US GOV Texas, US DOD East, US DOD Central
Germany	Germany Central, Germany Northeast
China	China East, China North, China North2, China East2
Brazil	Brazil South
Restricted Regions reserved for in-country disaster recovery	Switzerland West reserved for Switzerland North, France South reserved for France Central, Norway West for Norway East customers, JIO India Central for JIO India West customers, Brazil Southeast for Brazil South customers, South Africa West for South Africa North customers, Germany North for Germany West Central customers.

## • HOW ASR WORKS









- The Recovery Vault has to be in Target Region
- VM and Cache Storage Account must in Source Region
- Continuous replication begins for the VM, Disk writes are immediately transferred to the cache storage account in the source location and then sent to Target Region Replica managed disk

- Snapshot of Replica Managed Disk are taken and Recovery Points are created
- At time of failover you chose a Recovery point
- Then OS/Data Disk and VM are created in Target Region using that Recovery Point



# AttariClasses

## Target settings

General settings	Source	Target	Info
<b>Subscription</b>	<i>Attari-1</i>	Attari-1 	
<b>VM resource group</b>	<i>RG</i>	(new) RG-asr 	
<b>Virtual network</b>	<i>RG-vnet</i>	(new) RG-vnet-asr 	
<b>Availability</b>	<i>Single instance</i>	<div>Single instance  Availability set Availability zone</div>	

# AttariClasses

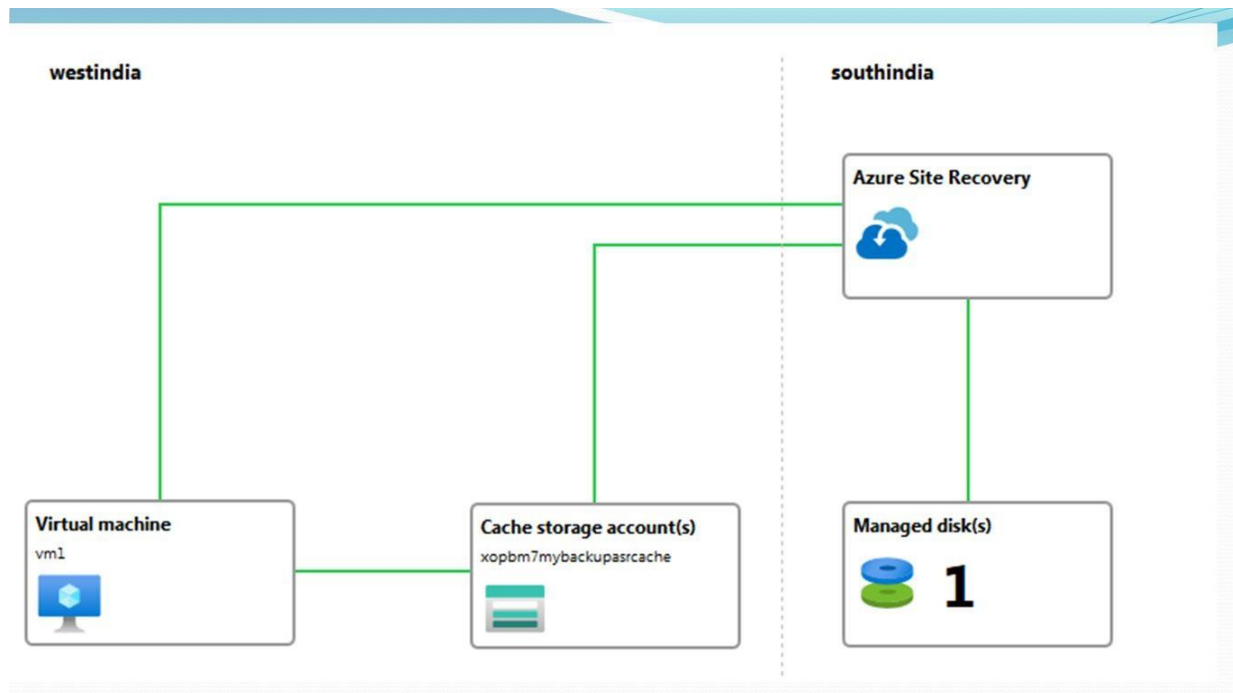
Storage settings [\[-\] Hide details](#)

<b>Cache storage account</b>	(new) xopbm7mybackupasrcache [Standard_LRS]	ⓘ
<b>Source managed disk</b>	<b>Replica managed disk</b>	<b>Replica managed di...</b>
[Standard HDD] vm1_OsDisk_1_3f39a769...	(new) vm1_OsDisk_1_3f39a7697cc64bec...	Standard HDD ⓘ

Replication settings [\[-\] Hide details](#)

<b>Vault subscription</b>	Attari-1	ⓘ
<b>Recovery services vault</b>	mybackup	ⓘ
<b>Vault resource group</b>	AzureBackupRG_centralus_1	ⓘ
<b>Replication policy</b>	(new) 24-hour-retention-policy	ⓘ





# AttariClasses

- Start failover from vm or vault

Home > Virtual machines > vm1 > vm1

**vm1**  
Replicated items

Search (Ctrl+J)

Overview

General

Properties

Compute and Network

Disks

Failover Test Failover Cleanup test failover Commit Resynchronize Change recovery point Re-protect More

**Essentials**

**Health and status**

Replication Health Healthy

Status Protected

RPO 4 mins [As on 11/19/2019, 11:25:12 AM]

**Failover readiness**

Last successful Test Failover Never performed successfully

Configuration issues No issues

**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

- Give option to shutdown original vm

Microsoft Azure

Home > Virtual machines > vm1 > Failover

**Failover**

Failover direction

From: West India

To: South India

Recovery Point

Choose a recovery point: Latest processed (low RTO) (1 out of 1...)

☒ Shut down machine before beginning failover.

OK

Recovery Point

Choose a recovery point

Latest processed (low RTO) (1 out of 1...)

Latest processed (low RTO) (1 out of 1 disks) (11/19/2019, 2:32:04 PM)

Latest (lowest RPO)

Latest app-consistent (1 out of 1 disks) (11/19/2019, 12:52:09 PM)

Custom

Home > Failover

## Failover

Site Recovery Job

[Export job](#) [Environment Details](#)

### Properties

<b>Vault</b>	mybackup
<b>Protected item</b>	vm1
<b>Job id</b>	f9e1a103-ce0a-4387-a73f-36d546cee020-2019-11-19T09:05:10Z-1bz ActivityId: c9152eb2-bf5b-46fb-b616-4d05eddee87

### Job

Name	Status	Start time	Duration	
Prerequisites check for failover	✔ Successful	11/19/2019, 2:35:22 PM	00:00:03	***
Shut down the virtual machine	✔ Successful	11/19/2019, 2:35:25 PM	00:01:06	***
Synchronizing the latest changes	Skipped			***
Start failover	✔ Successful	11/19/2019, 2:36:32 PM	00:02:27	***
Start the replica virtual machine	✔ Successful	11/19/2019, 2:39:00 PM	00:00:00	***

## Failover Completed

<input type="checkbox"/> Name ↑↓	Type ↑↓	Status	Resource group ↑↓	Public IP address	Private IP address	Location ↑↓
<input type="checkbox"/>  vm1	Virtual machine	Running	<a href="#">rg-asr</a>	104.211.201.200	10.0.0.4	South India
<input type="checkbox"/>  vm1	Virtual machine	Stopped (deallocated)	<a href="#">rg</a>	-	10.0.0.4	West India

## Change RP

Home > Virtual machines > vm1 > vm1

**vm1**

Replicated items

**Overview**

General

Properties

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Disks

[Failover](#) [Test Failover](#) [Cleanup test failover](#) [Commit](#) [Resynchronize](#) [Change recovery point](#) ... More

Essentials

**Health and status**

Replication

Health

Status

RPO

Failover completed

-

**Failover readiness**

Last successful Test

Failover

Configuration issues 🟢 No issues

[Latest recovery points](#)

Click above to see the latest recovery points.

**Errors(0)**

No errors

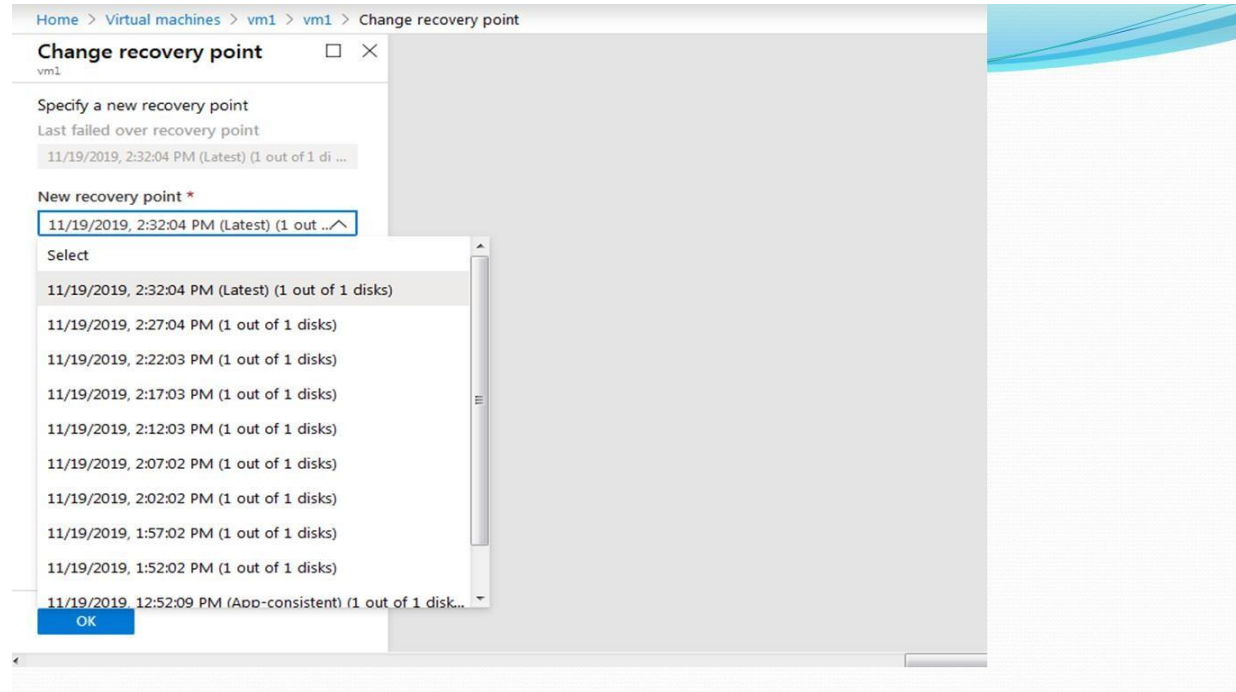
[Open in new page](#)

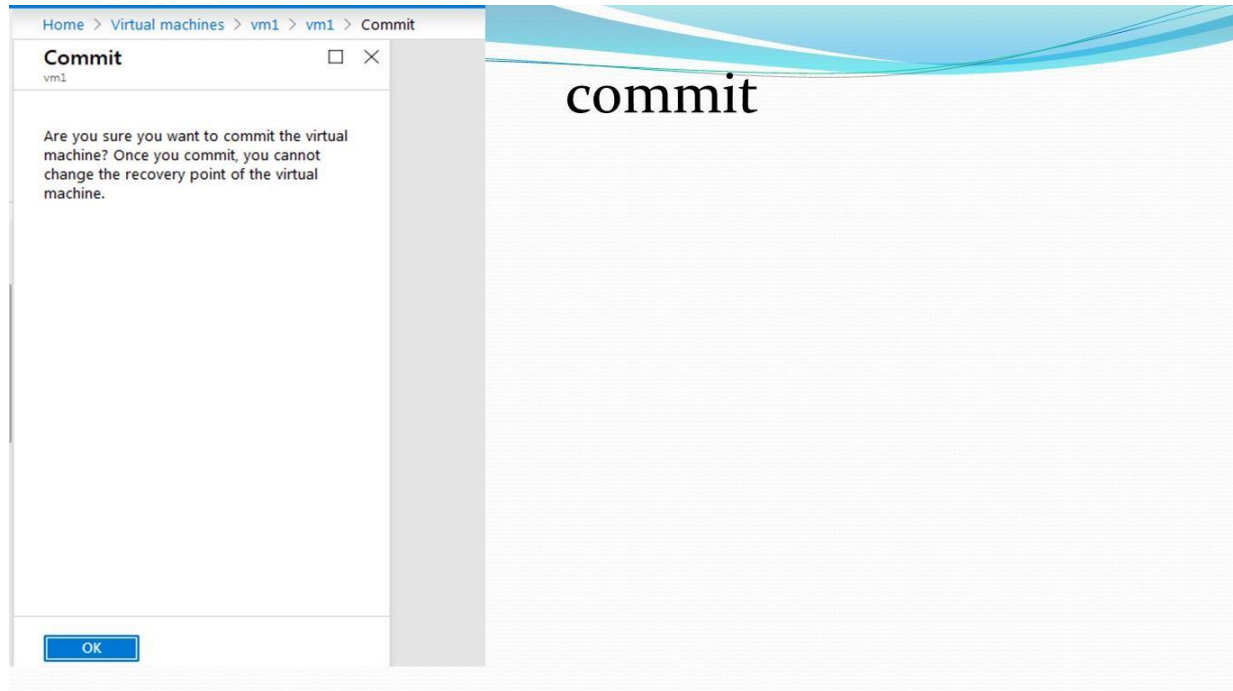
**Events - Last 72 hours(0)**

No events

[Open in new page](#)







## vm1

Replicated items

Search (Ctrl+/)

### Overview

#### General

Properties

Compute and Network

Disks

## Reprotect (replication from primary to second

Failover Test Failover Cleanup test failover Commit Resynchronize More

### Essentials

#### Health and status

Replication Health

Status Failover committed

RPO

#### Failover readiness

Last successful Test Failover

Configuration issues No issues

Change recovery point

Re-protect

Late point

Disable Replication

Click the late point

Error Details

Refresh

#### Errors(0)

No errors

Open in new page

#### Events - Last 72 hours(0)

No events


Open in new page

# AttariClasses

Home > Virtual machines > vm1 > vm1 > Re-protect

Re-protect

southindia to westindia



If you are choosing General Purpose v2 storage accounts, ensure that operations and data transfer prices are understood clearly before you proceed. [Learn more](#)

Resource group, Network, Storage and Availability [Customize](#)  
By default, Site Recovery will pick the original source resource group, virtual network, storage accounts and availability sets as below. Click 'Customize' above to change the configuration. The resources created are appended with "asr" suffix.

Target resource group ⓘ

RG

Cache storage accounts ⓘ

(new) ik5p0zmybackupasrcache

Target availability sets ⓘ

Not Applicable

Target virtual network ⓘ

RG-vnet

Replica managed disks ⓘ

(new) 0 premium disks(s), 1 standard disk(s)

OK

- Vm is reprotected, all data replicated back to primary vm

Home > Virtual machines > vm1 > vm1

**vm1**  
Replicated items

Search (Ctrl+/)

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Failover Test Failover Cleanup test failover Commit Resynchronize More

**Essentials**

**Health and status**

**Replication Health** Healthy

**Status** Protected

**RPO** 26 secs [As on 11/19/2019, 3:37:13 PM]

**Failover readiness**

**Last successful Test Failover** Never performed successfully

**Configuration issues** No issues

**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


- Failover from secondary to primary

Home > Virtual machines > vm1 > vm1 > Failover


### Failover

vm1

Failover direction


From 


South India

To 

West India

Recovery Point

Choose a recovery point 



Latest processed (low RTO) (1 out of 1 ... )

☒ Shut down machine before beginning failover.

OK



- In few minutes we can see vm back in primary , all changes in secondary vm are see in this primary vm



**Virtual machines** [Documentation](#)  

azureattari1

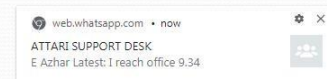
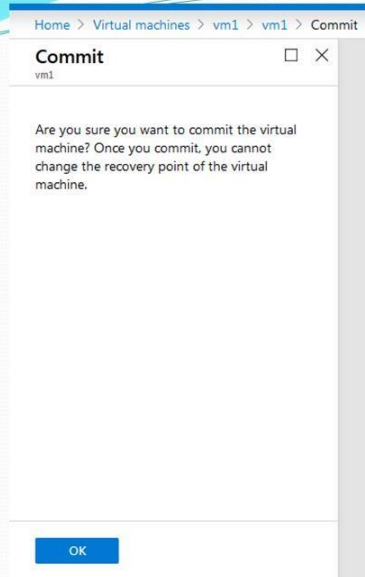
[+ Add](#) [Reservations](#) [Edit columns](#) [Refresh](#) [Assign tags](#) [Start](#) [Restart](#) [Stop](#) [Delete](#) [Services](#)

**Subscriptions:** Attari-1 – Don't see a subscription? [Open Directory + Subscription settings](#)

2 items

<input type="checkbox"/>	Name ↑↓	Type ↑↓	Status	Resource group ↑↓	Public IP address	Private IP address
<input type="checkbox"/>	 vm1	Virtual machine	Stopped (deallocated)	rg-asr	-	10.0.0.4
<input type="checkbox"/>	 vm1	Virtual machine	Running	rg	52.183.136.176	10.0.0.4

- Finally commit



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E Azhar Latest: I reach office 9.34