

Restore Azure VM Instance via ad-hoc snapshot

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- [Solution](#)
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Overview

Platform:	Azure
Owner of this SOP:	Fully Managed POD A
Cloud Services:	Domain Joined Virtual Machines

Problem

- When requesters are asking for their Domain Joined Virtual Machines need snapshot before they make any changes on application side. This is will help for immediate recover.

tester	Reviewer
@ Ramkumar Samudram (Deactivated)	

Process:

Raise a Normal Change Request

- Please open a Normal change request and get it approved before executing the resize activity. And respective stake holders and application owners should be informed prior to this activity as downtime is required for VM.

Solution 🌱

- If possible, create the Azure snapshot when the machine is powered off -- it makes the disk more consistent.
- To create an Azure VM snapshot, Use the search function in Azure Portal and type in "snap" to take a basic snapshot. This will highlight the snapshot blade. Click on the link to open the required blade,

[Home](#) >

Snapshots

BHP (BHPB.onmicrosoft.com)

+

Create

Manage view

Refresh

Export to CSV

Open query

Assign tags

Feedback

Filter for

Create

Subscription == it-npe-toolingdev

Resource group == all

Location == all

Add filter


Showing 1 to 2 of 2 records.

<input type="checkbox"/>	Name ↑↓	Source disk ↑↓	Snapshot t... ↑↓	Time created ↑↓	Source... ↑↓
<input type="checkbox"/>	snapshot-02122020	testinginstance2_OsDisk_...	Full	12/2/2020, 10:51:57 AM	127
<input type="checkbox"/>	TestSnapshot-12032020	testinginstance1_OsDisk_...	Full	12/3/2020, 1:52:48 PM	127

- Select the resource group to which the server belongs.

- Give the snapshot a name.
- Select which disks you need and create the snapshot.

Create snapshot ...

 Validation passed

Basics Encryption Networking Tags Review + create

Basics

Subscription	it-npe-toolingdev
Resource group	it-aue1-npe-arg-fmpodawin2019
Region	Australia East
Name	MAUE10ETPOD001OSDiskSnapshot
Source subscription	it-npe-toolingdev
Source type	disk
Source disk	MAUE10ETPOD001-osdisk
Security type	Standard
Storage type	Standard_LRS
Snapshot type	Full

Encryption

Encryption type	Platform-managed key
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Create

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Snapshot.MAUE10ETPOD001OSDiskSnapshot-20211221141842 | Overview

Deployment

Delete Cancel Redeploy Refresh

Overview

Inputs

Outputs

Template

We'd love your feedback! →

✓ Your deployment is complete



Deployment name: Snapshot.MAUE10ETPOD001OSDiskSnapshot-2... Start time: 12/21/2021, 2:18:49 PM
Subscription: [it-npe-toolingdev](#) Correlation ID: 20a7a374-14d9-4af8-8313-a
Resource group: [it-aue1-npe-arg-fmpodawin2019](#)

Deployment details [\(Download\)](#)

Next steps

[Go to resource](#)

Restore the VM from snapshot

- To convert the snapshotted disk to a fully managed disk, navigate to the snapshot and click **create disk**.

[Home](#) > [Snapshot.MAUE10ETPOD001OSDiskSnapshot-20211221141842](#) >



MAUE10ETPOD001OSDiskSnapshot

Snapshot

Create disk Copy snapshot Delete Refresh

Overview

Activity log

Access control (IAM)

Tags

Settings

Encryption

Networking

Snapshot export

Properties

Essentials

Resource group (Move) : [it-aue1-npe-arg-fmpodawin2019](#)

Provisioning state : Succeeded

Location : Australia East

Subscription (Move) : [it-npe-toolingdev](#)

Subscription ID : 01818878-c294-4617-a15a-8b7934a433c4

Date created : 12/21/2021, 2:18:57 PM

Tags (Edit) : BusinessUnit : FMPODA CostCentre : TBD CreatedDate : 2021-12-

- The only additional item required is a disk name. Give it an appropriate name and submit the request.

Create a managed disk ...

Select the disk type and size needed for your workload. Azure disks are designed for 99.999% availability. Azure managed disks encrypt your data at rest, by default, using Storage Service Encryption. [Learn more about disks.](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ

it-npe-toolingdev

Resource group * ⓘ

it-aue1-npe-arg-fmpodawin2019

[Create new](#)

Disk details

Disk name * ⓘ

Maue10etpod001restorediskfromsnapshot

✓

Region ⓘ

(Asia Pacific) Australia East

▼

Availability zone

None

▼

Source type ⓘ

Snapshot

▼

Source subscription ⓘ

it-npe-toolingdev

▼

Source snapshot ⓘ

MAUE10ETPOD001OSDiskSnapshot

Create a managed disk ...

✓ Validation passed

Basics Encryption Networking Advanced Tags Review + create

Basics

Subscription	it-npe-toolingdev
Resource group	it-aue1-npe-arg-fmpodawin2019
Region	Australia East
Disk name	Maue10etpod001restoreddiskfromsnapshot
Availability zone	None
Source type	Snapshot
Source subscription	it-npe-toolingdev
Source snapshot	MAUE10ETPOD001OSDiskSnapshot
Security type	Standard

Size

Size	128 GiB
Performance tier	P10 - 500 IOPS, 100 MBps (default)
Storage type	Premium SSD LRS

Create

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Home >



Microsoft.ManagedDisk-20211221142850 | Overview ...

Deployment



Delete



Cancel



Redeploy



Refresh



Overview



Inputs



Outputs



Template



We'd love your feedback! →



Your deployment is complete



Deployment name: Microsoft.ManagedDisk-20211221142850

Subscription: [it-npe-toolingdev](#)

Resource group: [it-aue1-npe-arg-fmpodawin2019](#)



Deployment details [\(Download\)](#)



Next steps

[Go to resource](#)

Changing the OS disk

- Once the disk is created, the next step is swap the OS disk with newly managed disk which was restored from snapshot.



MAUE10ETPOD001 | Disks ...

Virtual machine



Save



Discard



Refresh



Additional settings



Troubleshoot



Overview



Activity log



Access control (IAM)



Tags



Diagnose and solve problems

Settings



Networking



Connect



Windows Admin Center
(preview)



Disks



Size



Security

OS disk



Swap OS disk

Disk name	Storage type	Size (GiB)	Max IOPS
MAUE10ETPOD001-osdisk	Standard SSD LRS	128	500

Data disks



Filter by name

Showing 0 of 0 attached data disks



Create and attach a new disk



Attach existing disks

LUN ⓘ	Disk name	Storage type	Size (GiB)	Max IOPS
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No data disks attached

Swap OS Disk ...

Swap the OS disk for a backup disk or another disk for VM troubleshooting, [Learn more](#).

Choose disk *

Maue10etpod001restorediskfromsnapshot



This VM will be stopped (deallocated) and the OS disk will be replaced. Any existing data on the OS disk will be lost.

Confirm you want to swap the OS disk for this VM by entering the name of the vm 'MAUE10ETPOD001'

MAUE10ETPOD001



MAUE10ETPOD001 | Disks ...

Virtual machine

Search (Ctrl+/)

Save Discard Refresh Additional settings Troubleshoot

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Settings
 - Networking
 - Connect
 - Windows Admin Center (preview)
 - Disks**
 - Size
 - Security
 - Advisor recommendations

OS disk

Swap OS disk

Disk name	Storage type	Size (GiB)	Max IOPS
Maue10etpod001restorediskfromsna	Premium SSD LRS	128	500

Data disks

Filter by name

Showing 1 of 1 attached data disks

+ Create and attach a new disk Attach existing disks

LUN	Disk name	Storage type	Size (GiB)	Max IOPS
12	MAUE10ETPOD001-newdata	Premium SSD LRS	128	500

- Power on the VM from Azure Portal once swap disk activity complete. Logon to the server and validate it.

Related articles

- Create a Linux VM from Snapshot
- Rightsizing Domain Joined Linux VMs – Secondary Storage (Upsize)
- Instance Management - Terminate Virtual Machine
- Creating Azure File share with Private Endpoint and Storage account
- Rightsizing Domain Joined Windows VMs – Data Disk (Upsize)