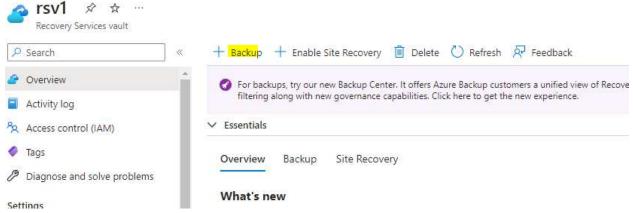
Azure Backup & Restore – Demo

In this demo, we are going to see how to backup and restore a azure VM using Recovery Service Vault (RSV) service and it's out of the box feature.

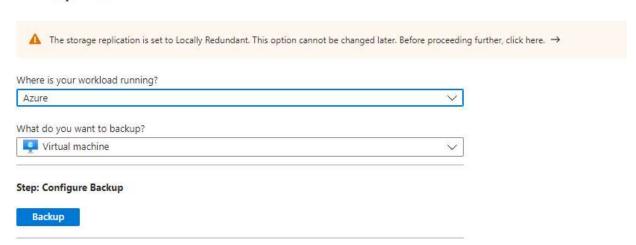
Azure VM - Backup & Restore using "RSV" service

- 1. Create an azure window VM.
- 2. Login to VM and Create some folder/files.
- 3. Create RSV with default options in azure portal.
- 4. Once its created, click "Backup" from RSV's overview page.



5. Update the replication from LRS to ZRS or GRS as needed, from below given link. And then, select "Virtual machine" from backup dropdown.

Backup Goal ...



6. Create a custom policy to take the backup of VM every day like 10:00 PM EST as shown below.

Dashboard > Microsoft.RecoveryServicesV2-1679618622688 | Overview > rsv1 > Backup Goal > Configure backup Standard) Enhanced Policy sub type * Multiple backups per day Once a day backup 1-5 days operational tier 1-30 days operational tier Vault tier Vault tier ZRS resilient snapshot tier ZRS resilient snapshot tier Support for Trusted Azure VM Support for Trusted Azure VM Backup policy * (i) DefaultPolicy Create a new policy 1 The list contains the policies pertaining to the selected policy sub type. Learn more. Policy details Backup frequency Full backup Daily at 10:30 AM UTC Instant restore Retain instant recovery snapshot(s) for 2 day(s)

Retention of daily backup point

Retain backup taken every day at 10:30 AM for 30 Day(s)

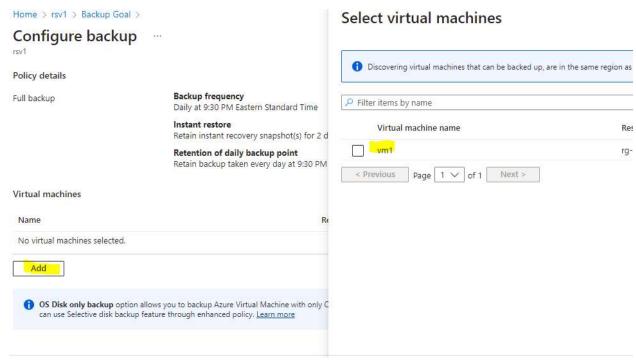
Enable backup

Download a template for automation

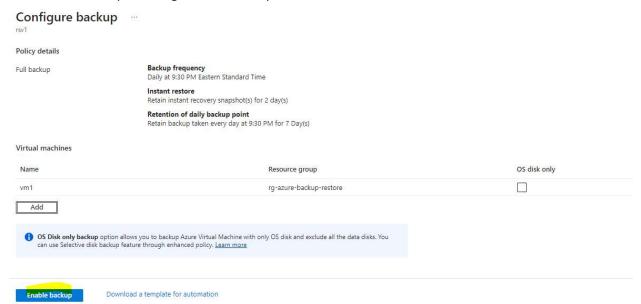
Create policy

Azure Virtual Machine Recovery points can be automatically moved to the vault-archive tier using backup policy. Learn more. → vm-backup-daily10pmEST-policy Policy name ① Backup schedule Frequency * Time * Timezone * Daily 10:00 PM (UTC-05:00) Eastern Time (US & Canada) V Instant restore (1) Retain instant recovery snapshot(s) for Day(s) ① Retention range Retention of daily backup point At For 7 10:00 PM Day(s) Retention of weekly backup point OK

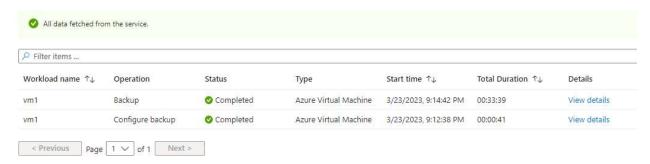
7. Add your VM in the "backup" list



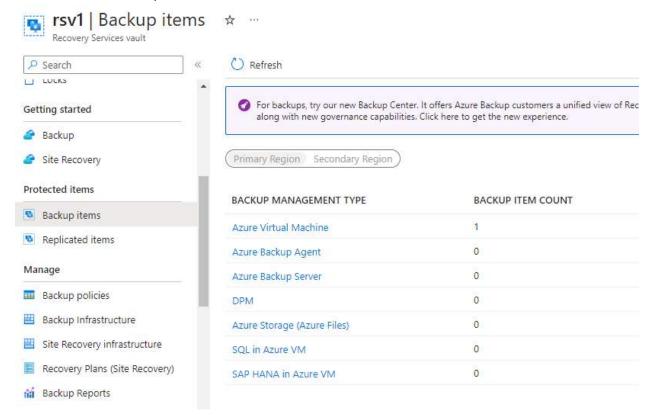
8. Enable the "backup" clicking "Enable backup" button.



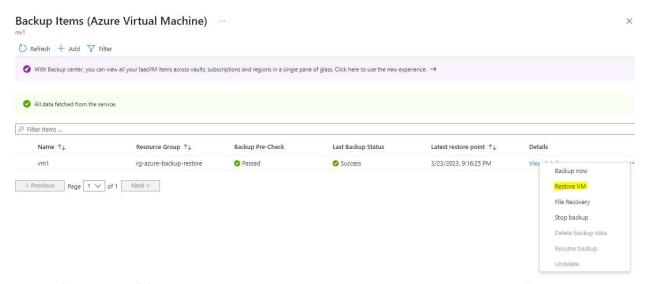
9. Once its done and VM backup is taken (lets say backup has been completed at 10 PM EST – please expect some time to complete VM backup job),



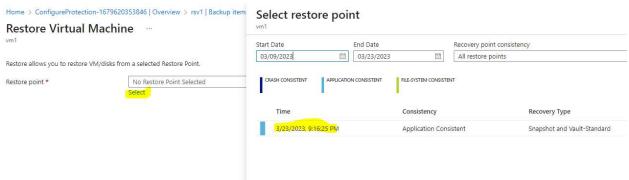
10. You can check all backup items in RSV as shown below.



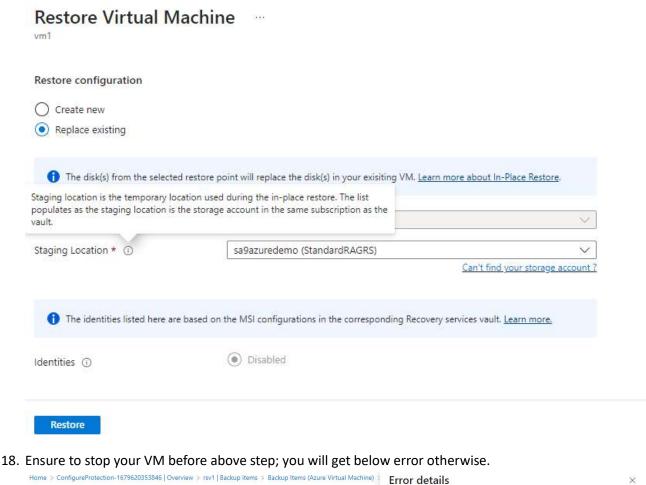
- 11. Login to VM again and make some changes on the files you created in step#2 at around 10:15 PM EST.
- 12. Assuming there is a disaster and you are unable login to VM or even access files from that VM at around 10:30 PM EST. Now you go back and restore from the VM backup taken at 10 PM EST and ensure that you have file content until 10:00 PM EST as that was when last backup taken successfully.
- 13. From step#10 screenshot, click on "Azure Virtual machine"; you will be taken to below screen.

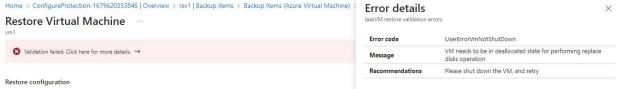


14. Click on "Restore VM" from above screenshot and then you will be asked to select the "restore point" which is nothing but which time taken backup you want to restore.

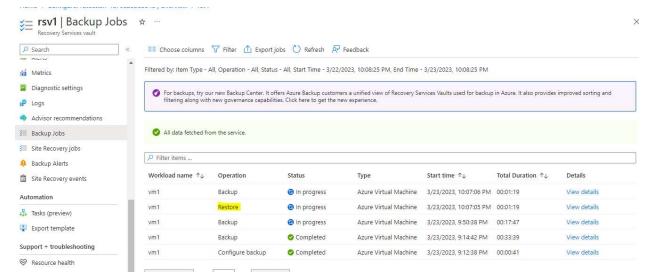


- 15. Select the "restore point" time and click Ok.
- 16. You will get 2 options for restore configuration.
 - I. Create New → This will create a new VM
 - II. Replace Existing \rightarrow This will replace the existing VM from which you took backup.
- 17. Lets go with "replace" option so that you can verify the result as stated in step#12. Go ahead and select "Replace Existing" and click "Restore"



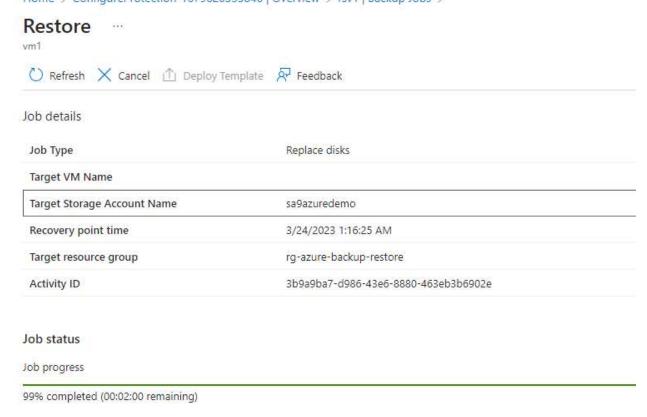


19. You can now see "Restore" operation in progress. This is also you've to monitor from "Backup Jobs" blade only. There is no as such "Restore jobs" option to monitor restore option.

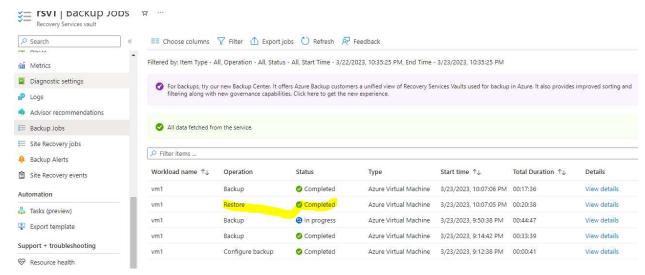


20. If you click on "View details" you will get to know more details about any jobs.

Home > ConfigureProtection-1679620353846 | Overview > rsv1 | Backup Jobs >



21. Status of the job will become "completed" once restoration is complete.

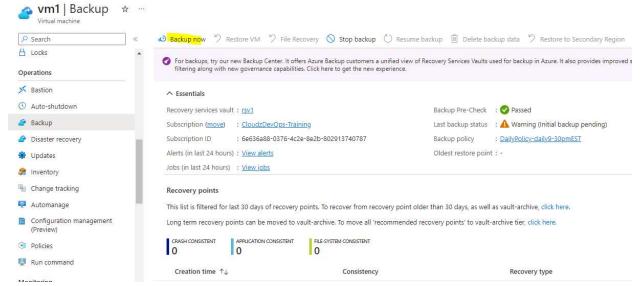


22. Start and login to VM and verify if you got right backup as expected in step 12.

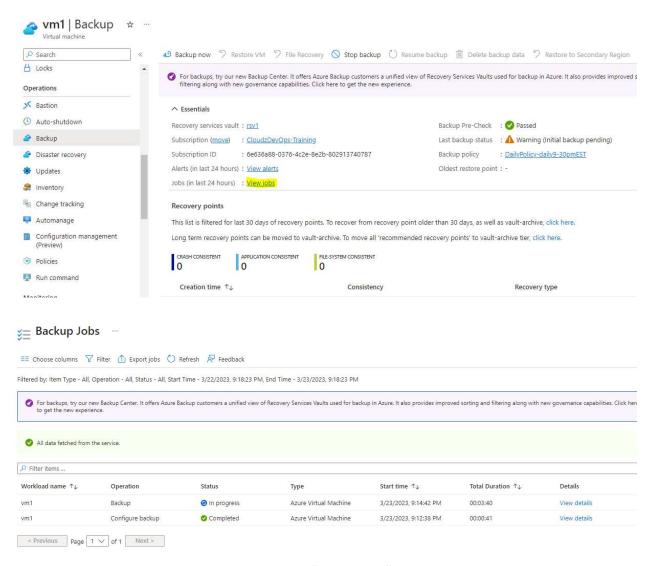
Backup VM

Difference b/n taking backup of VM from it's out of the box option and RSV is, RSV is like central place to schedule multiple VMs, Azure File shares, etc.,

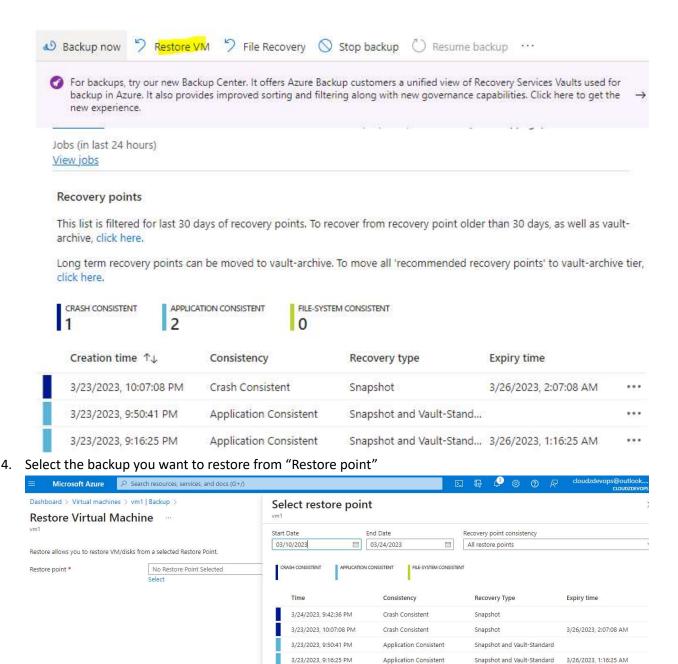
1. Go to your VM and select "backup" from left side blade and click on "Backup now".



2. You can monitor backup progress by clicking "View job"



3. Once backup is complete, you can restore it using "Restore VM" option.



5. You may now follow same steps starting from steps # 16 on above section (RSV)