

RDS with automated backups of SQL Workloads

Prepared for

Service Providers

Prepared by

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Revision and Signoff Sheet

Change Record

Date	Author	Version	Change Reference
March 16, 2018	Manish Dhall	1.0	Initial draft for review/discussion

Reviewers

Name	Version Approved	Position	Date



Table of Contents

Introduction	5
Purpose	
Prerequisites	
Deployment Steps	



Introduction

Azure Backup Server can protect application workloads such as Hyper-V VMs, Microsoft SQL Server, SharePoint Server, Microsoft Exchange, and Windows clients from a single console. We can also protect Infrastructure as a Service (laaS) workloads, like VMs in Azure.

Azure Backup Server inherits much of the workload backup functionality from Data Protection Manager (DPM).

Purpose

This document describes basic backup and restore terms and introduces backup and restore strategies for SQL Server and security considerations for SQL Server backup and restore.

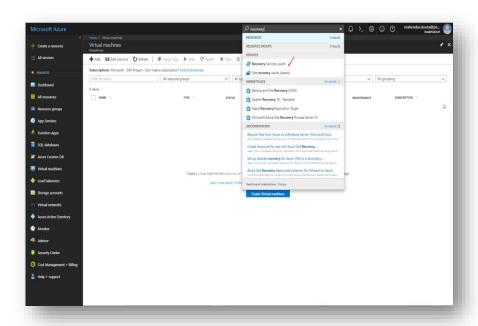
Prerequisites

• A VM running with SQL Server 2016 SP1 Standard on Windows Server 2016

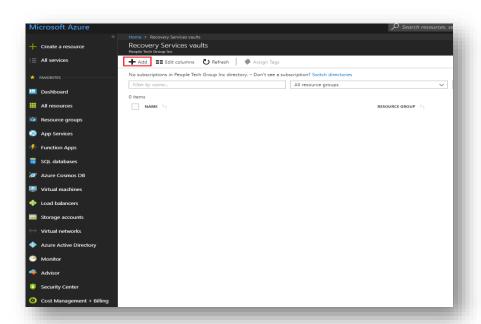


Deployment Steps

- 1. Login to the Azure portal.
- 2. On the **Hub** menu, click **Browse** and in the list of resources, type **Recovery Services**. As you begin typing, the list filters based on your input. Click **Recovery Services vault**

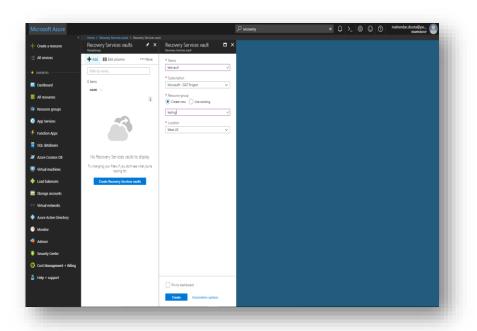


3. On the Recovery Services vaults menu, click Add

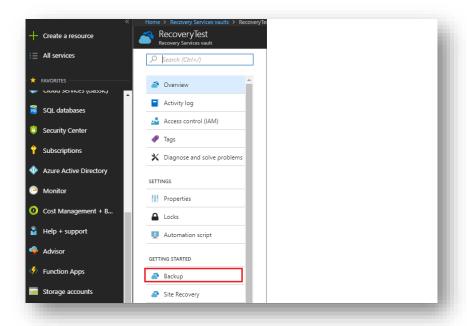




- 4. The Recovery Services vault blade opens, prompting you to specify a Name, Subscription, Resource group, and Location
- 5. Click Create

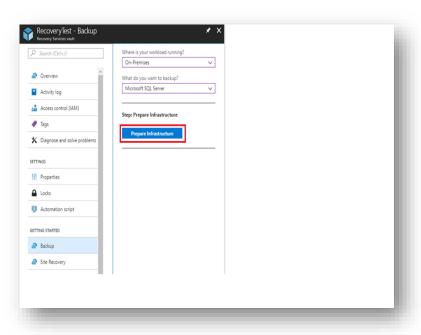


6. Specify Recovery Services vaults, then click Backup

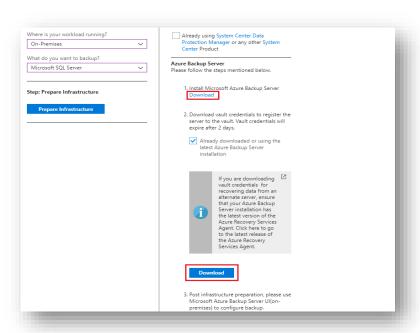




- 7. Specify On-Premises and Microsoft SQL Server
- 8. Click Prepare Infrastructure



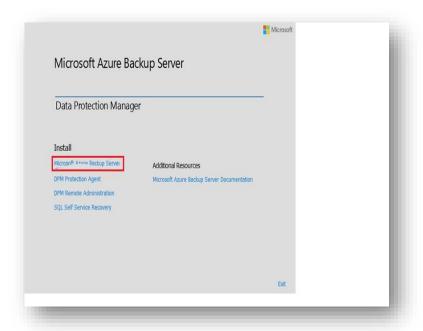
9. Download Install Microsoft Azure Backup Server



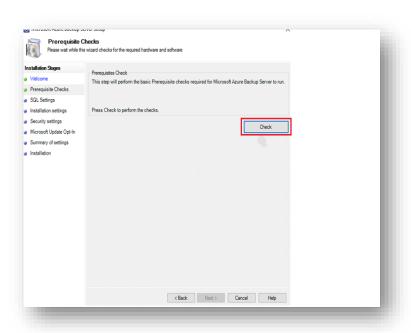
- 10. Download the Credentials file to the SQL Server, this will be used in the setup process
- 11. Login to SQL Server and copy the download files to Server along with the Credentials file
- 12. Run the installer



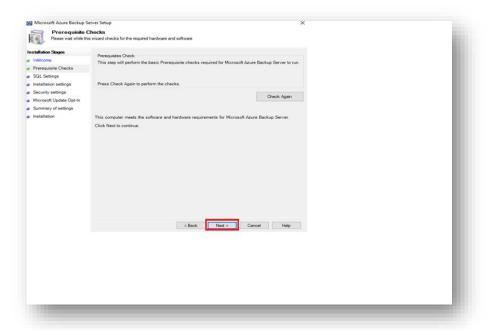
13. Click MicrosoftAzureBackupInstaller.exe. This will launch the Microsoft Azure Backup Server Setup Wizard to extract the setup files to a specified location



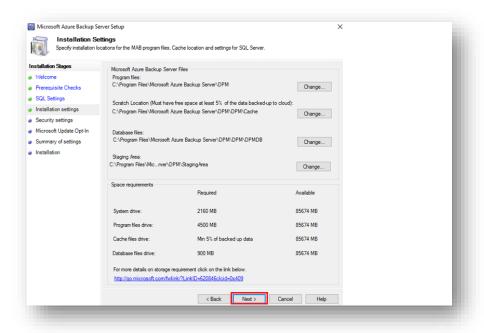
- 14. Continue through the wizard and click on the **Extract** button to begin the extraction process
- 15. Once the extraction process completes, check the box to launch the extracted **setup.exe** to begin installing **Microsoft Azure Backup Server**, then click on the **Finish** button
- 16. Click on Microsoft Azure Backup
- 17. Click Next
- 18. Click Check





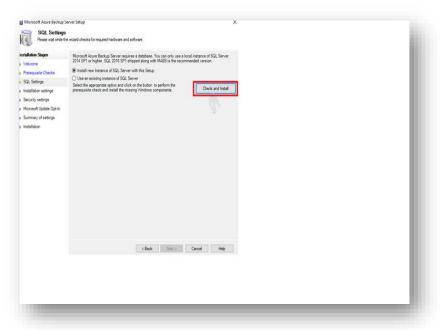


20. Click Next



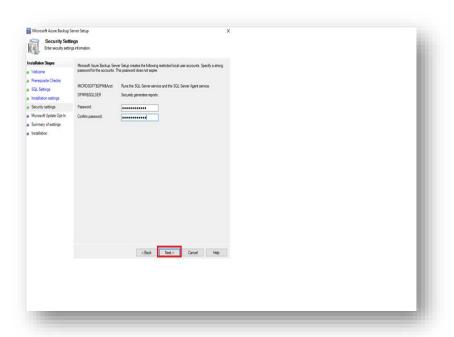


21. Select Install New Instance of SQL Server with this Setup, then click the Check and Install button

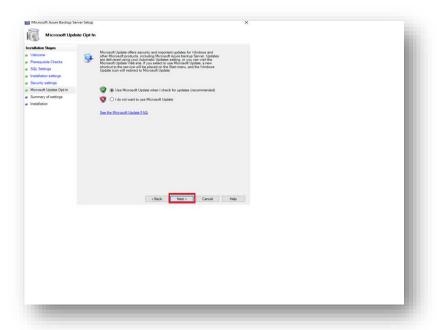


NOTE: In case a warning about restart of the machine is notified, please restart the machine and go to the C: drive, click **Microsoft Azure Backup Server**, and then **Run the Setup as Administrator**

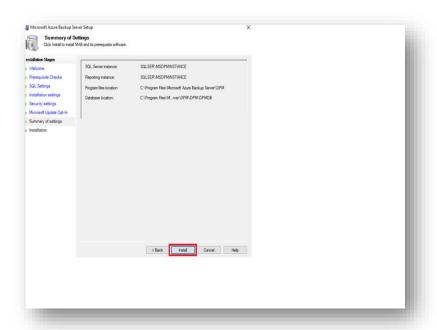
22. Specify a password



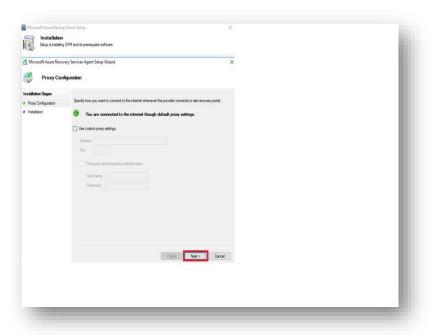




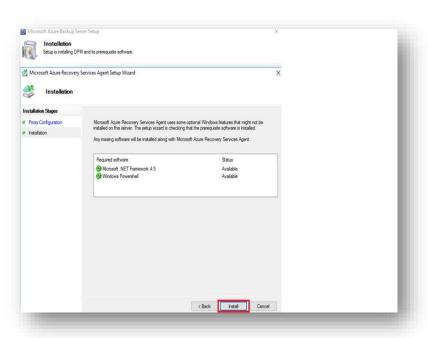
24. Click Install





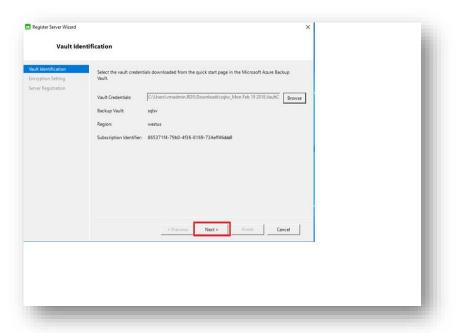


26. Click Install

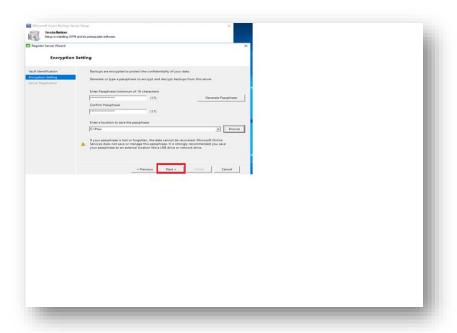




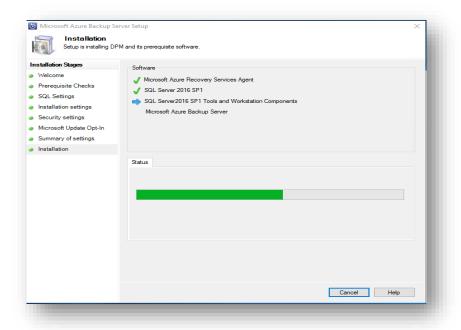
27. Specify Azure backup credentials, then click Next



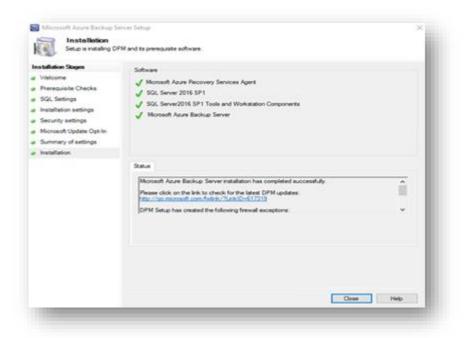
28. Specify a new password, then click **Next**







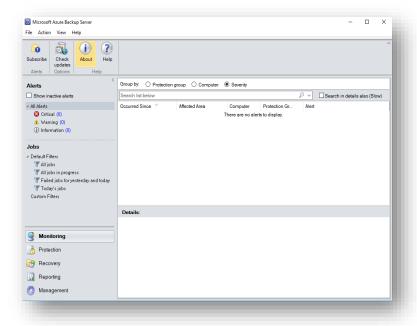
29. When the installation completes, click Close



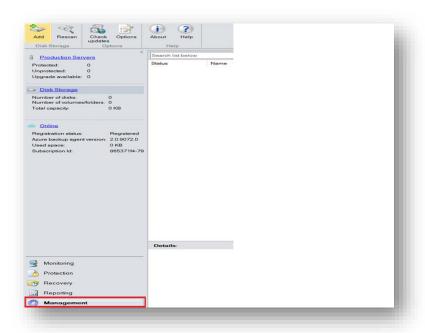


Create a backup policy to protect SQL Server databases to Azure

1. On the Microsoft Azure Backup Server, click Management

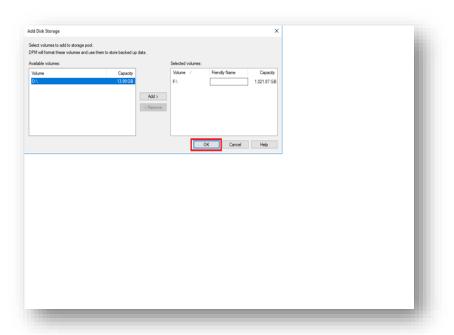


2. Click Disk Storage, then Add

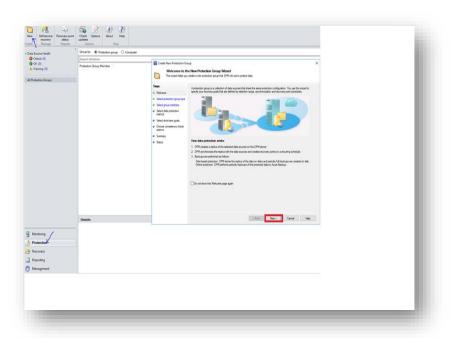




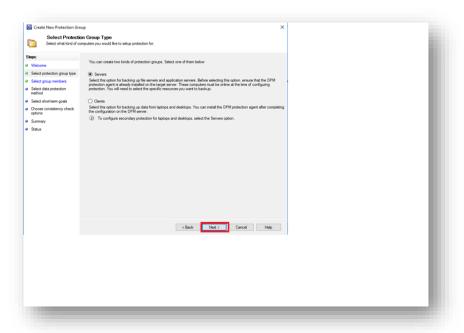
3. Specify a new free disk to add, then click \mathbf{OK}



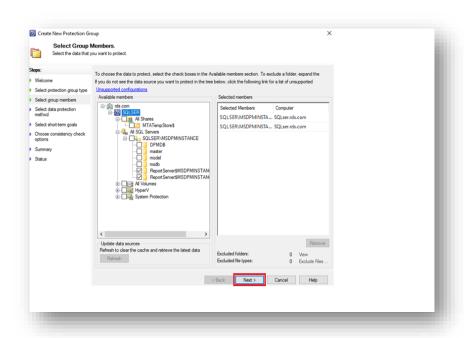
4. Specify **Protection Type** and select **Add**, then click **Next**





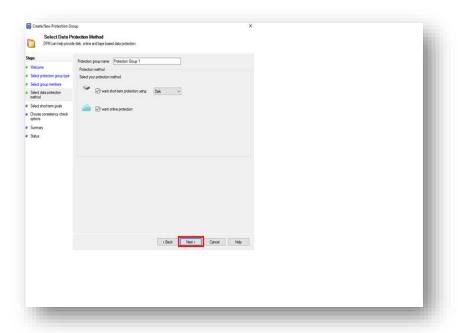


6. Expand the All SQL Shares and select the databases

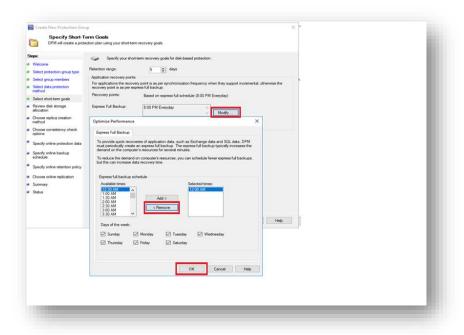




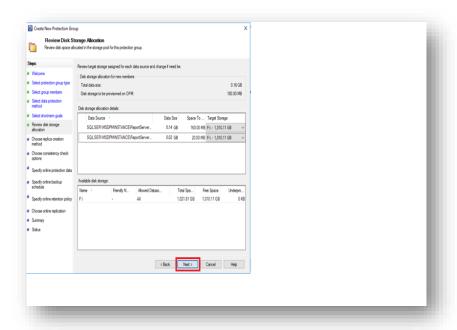
7. Specify a name for the Protection group, then click Next

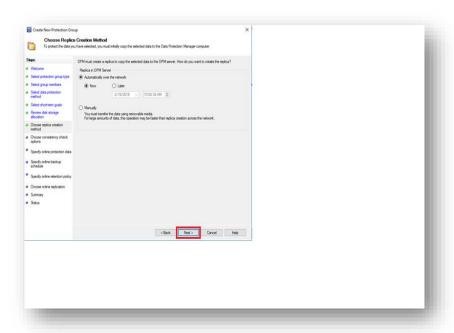


8. Enable Retention range and Express Full Backup, then click OK

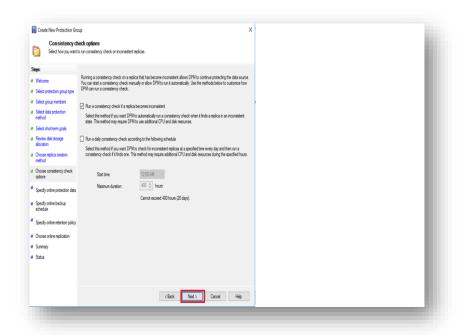




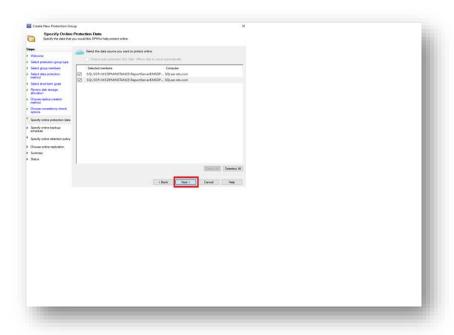






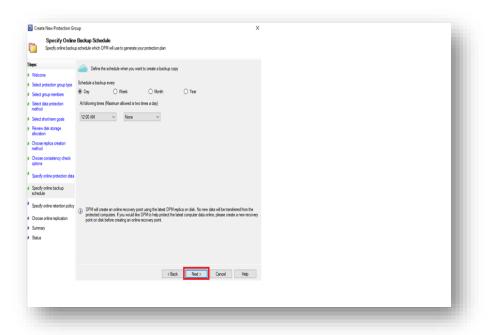


11. Specify Databases, then click Next

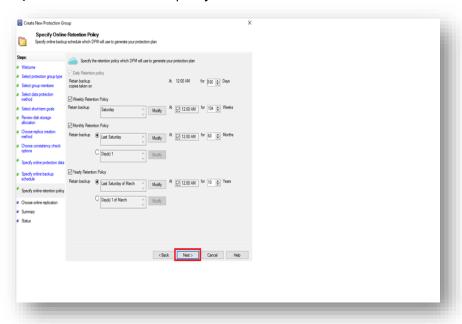




12. Specify the Backup Schedule, then click Next

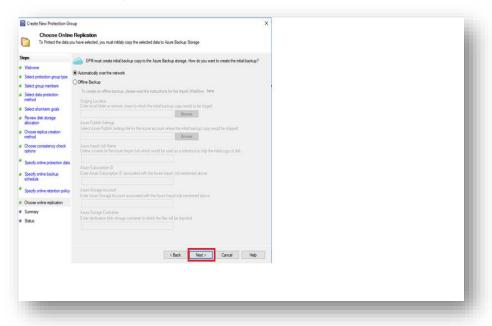


13. Specify the Schedule retention policy, then click Next

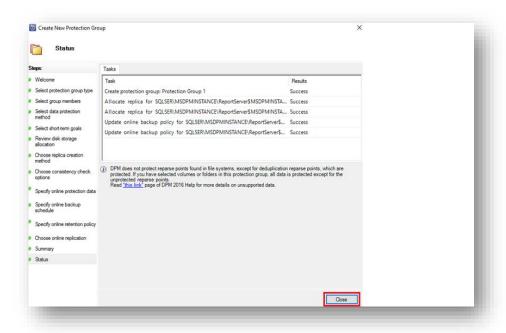




14. Specify Automatically over the Network, then click Next

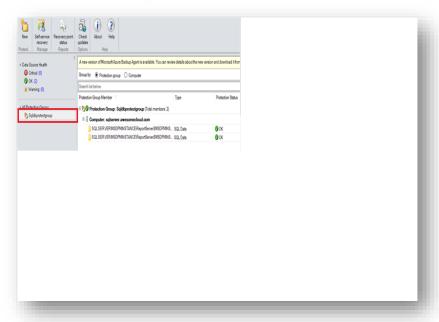


15. Click Create group, then click Close

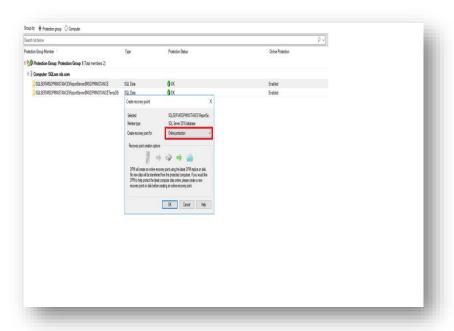




16. Specify the **Protection Group**, then select **database**

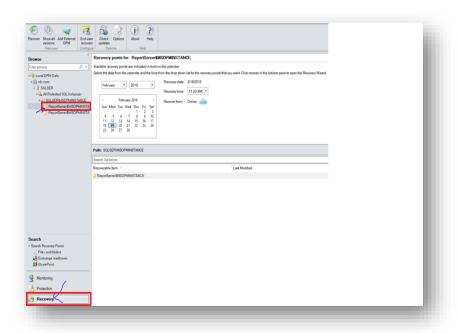


17. Right-click the database and select Create Recovery Point, then select online protection

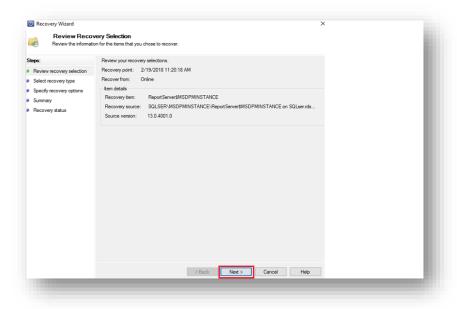




18. Select **Recovery** option, then click **Recovery point**

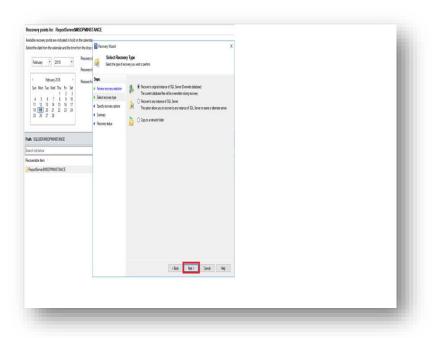


19. Right-click the database name, click **Recovery**, then click **Next** and **Create**

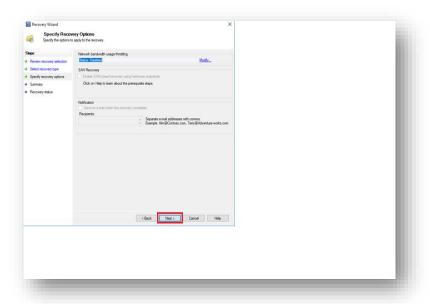




20. Select the recovery type: Recover to original instance of SQL Server, then click Next

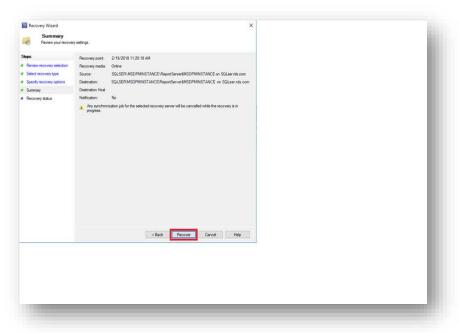


21. Click Next

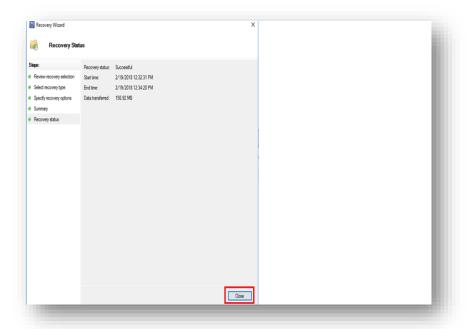




22. Click Recover



23. Click Close





References

https://docs.microsoft.com/en-us/azure/backup/backup-azure-microsoft-azure-backup