VERITAS™

Cross Cloud Provider Restore (AWS to Azure / Azure to AWS) Technical Brief

Veritas NetBackup

This paper is designed to highlight the capability to restore a virtual machine in Azure to AWS and vice versa in Veritas NetBackup.

For more information on Veritas products and solutions, visit www.veritas.com

September 2024

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Revision History

Version	Date	Changes	Author
1.00	07/15/2024	Initial Version	Neil Glick

Introduction

Executive Summary

At Veritas, we know that your enterprise cloud environments are heterogenous and need the ability to backup and restore your enterprise cloud virtual machines easily from AWS to Azure and vice versa. Veritas NetBackup continues to un-complicate the cloud by now offering cross cloud provider restore capabilities.

Target Audience

This document is for customers who use Veritas NetBackup as their enterprise backup and recovery solution in the cloud or are interested in its value and operation.

Use Case

Cases arrive when it is necessary to restore a cloud virtual machine from one provider to another. NetBackup now makes that capability quick, simple and easy to configure.

Requirements

Veritas NetBackup Snapshot Manager with connection credentials for your AWS and Azure environments.

Note: A backup from snapshot copy must be present to restore the virtual machine to an alternate cloud provider. Cloud Snapshots can continue to be used for restores at the same cloud provider.

How to Use – Azure to AWS
1. After a backup has been completed of a cloud virtual machine, navigate to Workloads > Cloud and find the virtual machine you wish to restore to an alternate cloud service provider (CSP). Click on the virtual machine to proceed.
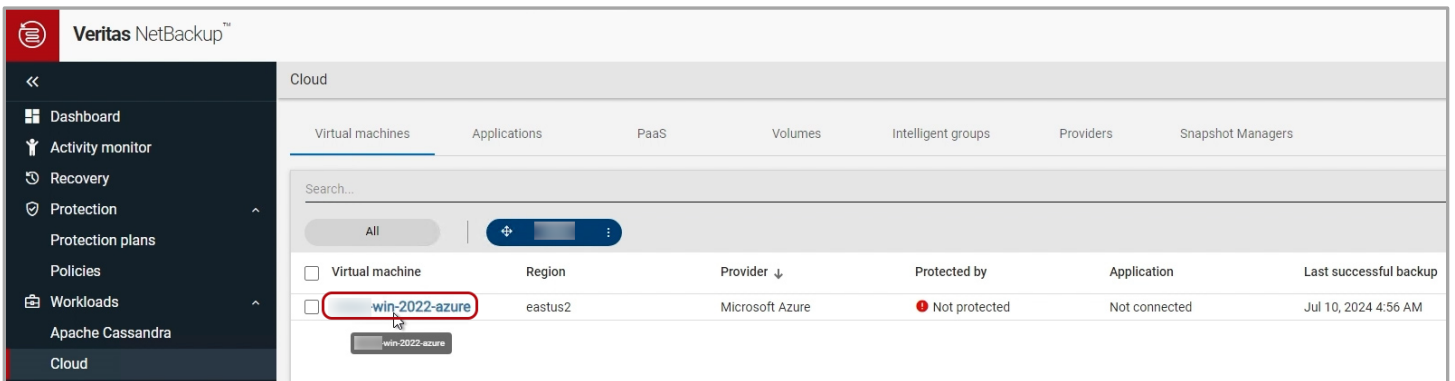
2. Find the backup you wish to restore and click on Restore Virtual Machine.
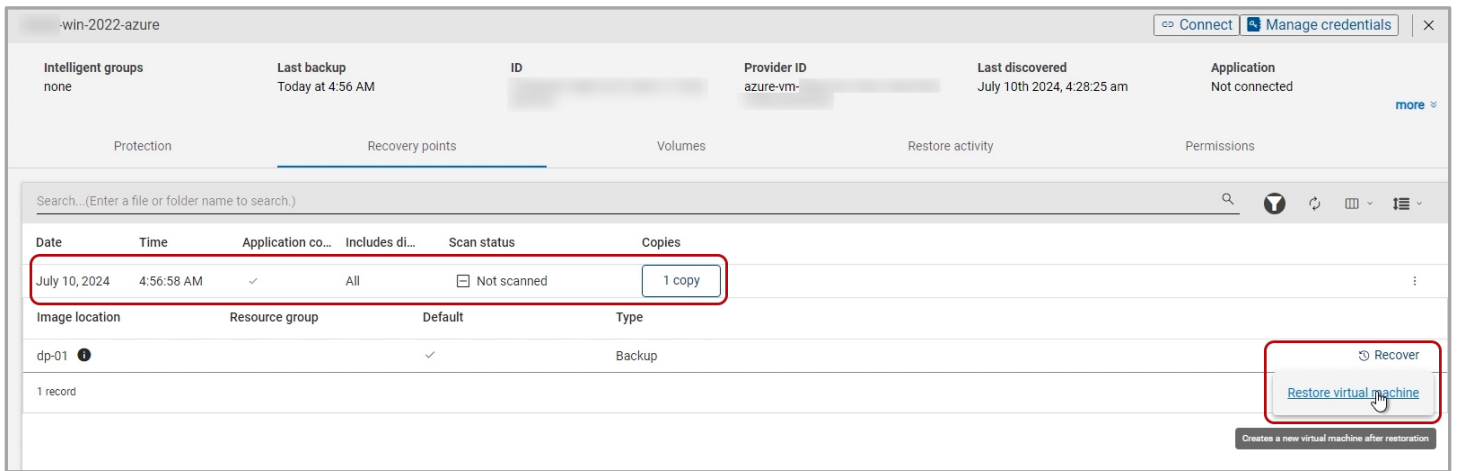
3. On the Restore Virtual Machine page, select the AWS equivalents for Azure.
   a. Target CSP
   b. Configuration Name
   c. Region to restore to
   d. Your AWS Account Number
   e. The name the VM will have in AWS.
   f. The instance machine type
   g. The AMI ID.

Note: The two attached Azure volumes at the bottom of the screen image will be restored into two volume on AWS.

___-win-2022-azure | **Restore virtual machine** | July 10, 2024 4:56 AM

1 Recovery target

⚠ One or more images for this recovery point are not scanned for malware.

Select recovery target

Provider *

⚠ Follow steps from NetBackup documentation for virtual machine preparation for cross provider restore.

aws ▼

The providers do not appear in the list if they are not configured.

Configuration *

aws-_____ ▼

Region *

us-east-2 ▼

Account *

_____ ▼

Display name *

___-win-2022-azure-restored

Instance type *

t3.xlarge ⓘ

For example: t3.large, c5ad.xlarge, c6gd.8xlarge

AMI ID *

ami-_____ ⓘ

Volumes

	Volume	Size	Encryption key
☐	___-win-2022-azure_OsDisk...	127 GB	Platform managed key
☐	___-win-2022-azure_DataDis...	4 GB	Platform managed key

2 records

5

4. On the next screen continue to select the AWS equivalents of the Azure VM.
   a. AWS Zone
   b. Network configuration
   c. Network security group
   d. Advanced options
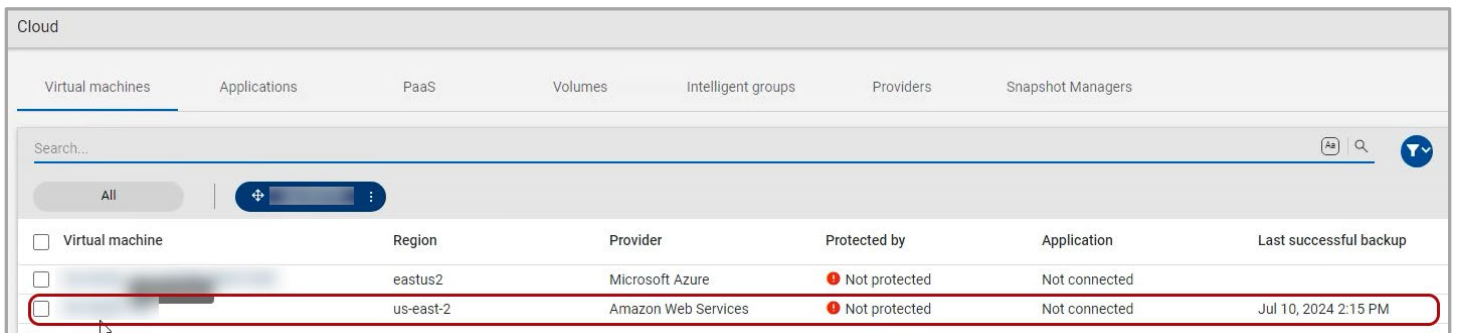

5. After the restore, log into AWS and the virtual machine will be available for use.
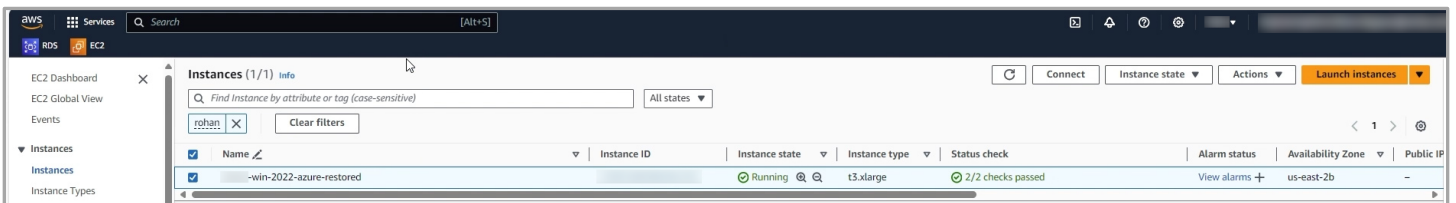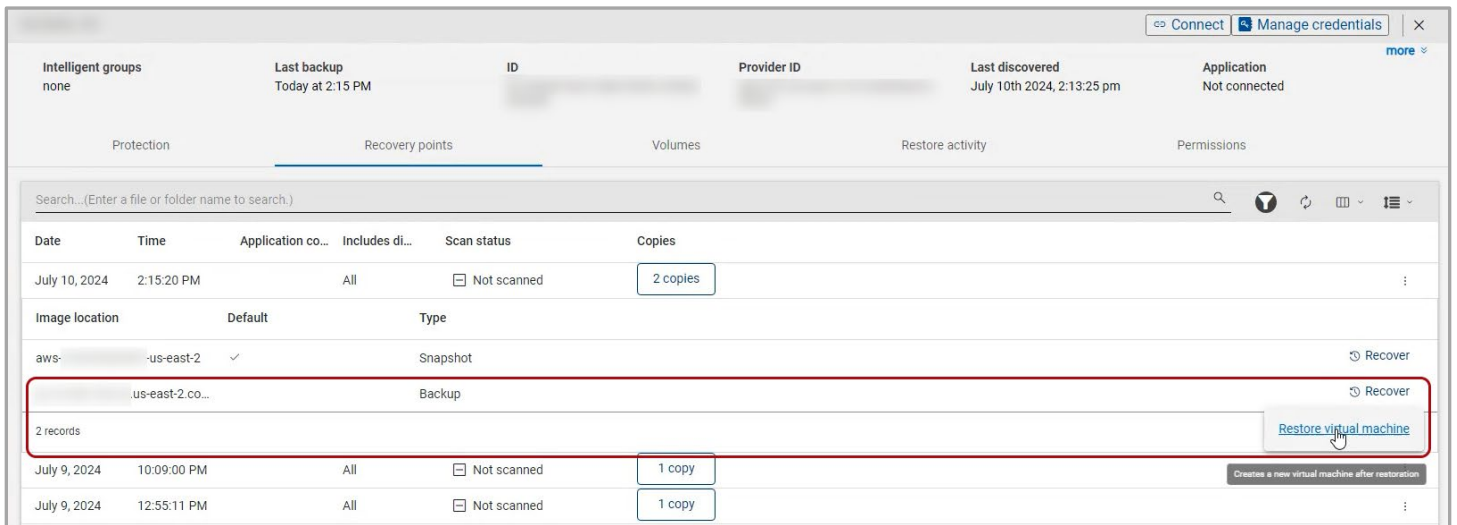
How to Use – AWS to Azure

1. After a backup has been completed of a cloud virtual machine, navigate to Workloads > Cloud and find the virtual machine you wish to restore to an alternate cloud service provider (CSP). Click on the virtual machine to proceed.

2. Find the backup you wish to restore and click on Restore Virtual Machine.

3. On the Restore Virtual Machine page, select the Azure equivalents for AWS.
   a. Target CSP
   b. Configuration Name
   c. Region to restore to
   d. Your Azure subscription
   e. Resource group in Azure to restore to
   f. The name the VM will have in Azure.
   g. The instance machine type

Note: The two attached AWS volumes at the bottom of the screen image will be restored into two volume on Azure.

	Restore virtual machine	July 10, 2024 2:15 PM

1 Recovery target ———————————————— **2** Recovery options

⚠ One or more images for this recovery point are not scanned for malware.

Select recovery target

Provider *

⚠ Follow steps from NetBackup documentation for virtual machine preparation for cross provider restore.

azure	▼

The providers do not appear in the list if they are not configured.

Configuration *

az1	▼

Region *

eastus2	▼

Subscription *

	▼

Resource group *

	🔍

Display name *

-RESTORE-TWO

Size *

Standard_B1ls	ⓘ

For example: Standard_B1ls

Volumes

☐	Volume	Size	Resource group	Type
☐		10 GB		
☐		1 GB		

2 records

4. On the next screen continue to select the Azure equivalents of the AWS VM.
    a. Azure Zone
    b. Network configuration
    c. Security group
    d. Advanced options

5. After the restore, log into Azure and the virtual machine will be available for use.
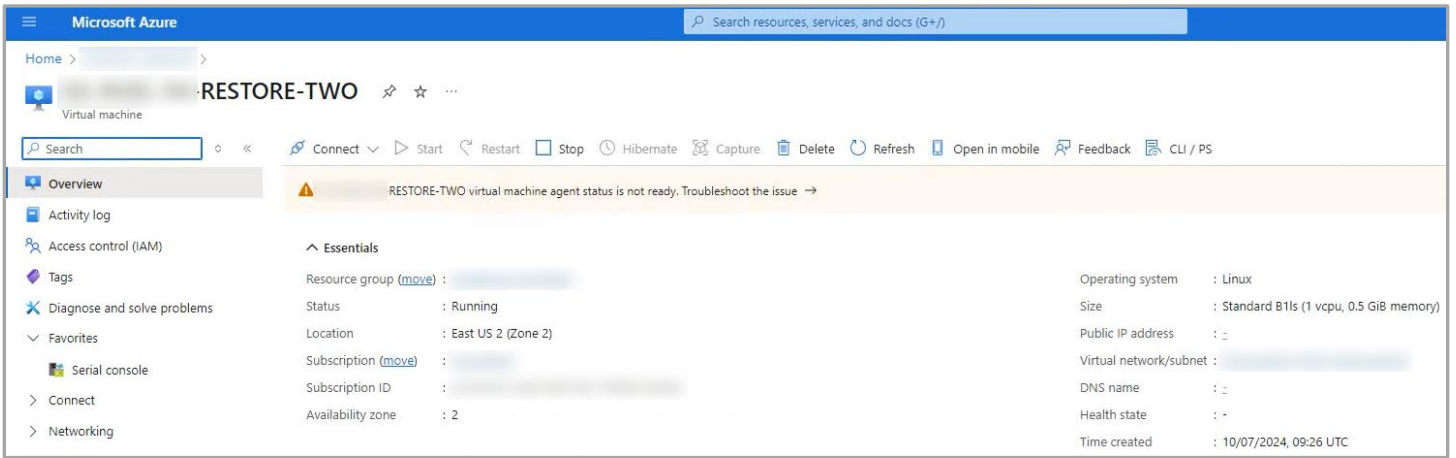
Conclusion

Veritas again makes it easier than ever to backup and recover almost any storage or application.

About Veritas

Veritas Technologies is a leader in multi-cloud data management. Over 80,000 customers—including 95 percent of the Fortune 100—rely on Veritas to help ensure the protection, recoverability, and compliance of their data. Veritas has a reputation for reliability at scale, which delivers the resilience its customers need against the disruptions threatened by cyberattacks, like ransomware. No other vendor is able to match the ability of Veritas to execute, with support for 800+ data sources, 100+ operating systems, 1,400+ storage targets, and 60+ clouds through a single, unified approach. Powered by Cloud Scale Technology, Veritas is delivering today on its strategy for Autonomous Data Management that reduces operational overhead while delivering greater value. Learn more at veritas.com. Follow us on Twitter at @veritastechllc.

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