

SITE RECOVERY ON AZURE

Step-by-Step Deployment Guide

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1.	TD SYNNEX Azure Site Recovery Step by Step.	3
	1.0 Things to know prior to using this Guide	3
	1.1 Azure Site Recovery deployment	4
	1.2 How to connect	20
	1.3 Post-Deployment Tasks	47
~		60
2.	Azure Notions	62

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1. TD SYNNEX Site Recovery Step by Step

1.0 Things to know prior to using this Guide

- You would need to familiarize yourself with this document prior to diving in.
- All the Screen Shots in this Guide are for reference only.
- This Guide will assist you with the deployment of the Azure Site Recovery Bundle in an Azure CSP subscription that was purchased through the StreamOnePortal. In depth training on Azure is outside of this guide.
- Accessing the Azure Site Recovery in Azure

You would need to login to the Azure portal to get the IP address

- <u>https://portal.azure.com</u>
- You would need to login using the same user name and password as the one created in StreamOne and what was emailed to you.
- For example: john.doe@contoso.onmicrosoft.com
- It will give you a one-time password and you will need to change it.
 - To access the Azure Backup, you must ensure you have the **Login** and **Password** that were created during the StreamOne ordering process.
 - If you were not the person who accessed the StreamOne ordering portal to do the
 - purchasing, please get with that person and obtain the user login and password that were initially created.



1.1 Azure Backup on Azure deployment.

Connect to StreamOne Cloud Marketplace:



You can search for the Microsoft Azure SKU in Most Viewed, browsing by Categories or Vendor, or directly searching for it in the search field:





Click on Microsoft Azure:



Click on "ADD TO CART" button of registration SKU:

Home >> UC and Productivity >> Microsoft Azure		
Microsoft Azure	by Microsoft Microsoft Acure is a market leading cloud platform that enables you to quickly build, deploy, and manage applications across a global network of Microsoft-managed datacentres. Microsoft provides Cloud Intrastructure as a Service, Application Platform as a Service, and Cloud Storage Services. With Tech Data, you can sell the complete Acure experience. This covers everything from assessing cloud readiness to spinning up a VM instance, and migrations to ongoing management of assets. Tech Data have partnered with NetEnrich aboving resellers to offer white-labelled services for Acure. View Features This product will be provisioned directly to your end user.	
Search: Search By Heyword, TOP, Mr.Re	Clear Filters Display: 10	_
Name	¢ Register	
Azure Account Creation TD# SK0307 MFR#: MS-AZR-0145P	*\ <u>\</u>	



Click on "View Cart" button:

Home Brawne Dy Categories Drowen Dy Ver	1307	
Microsoft Azure Microsoft Azure Microsoft Azure Microsoft Azure	by Microsoft Unreal Access to a market working clean of themes that the inter- septication a constrained for the state of the second and as a Service Approxime Floribury is a Service and Character (a) Item Added to Cart The item was successfully added to your cart.	ren fo speaklig bedät, degiler, soch removan entern Mozzarett providesk Generit Unterschurturg Scholarz en enterne versettigtling Daris enterning school (unterspectreeff of Senato Tach Tiglia Korea (unterspectreeff of Senato
Shop by Product Name	Cart: 1 Item Anum Account Cristion 1 Unit Based On Usage	
Search:		Denimy 10
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Click on 'Proceed to Checkout' button:

Quantity	Date Added	Product Number	Product Details	Payment Details	Each***	Total	
1	07/05/2018	TD#: SK8387 Mfn#: MS-AZR- 0145P	Microsoft Azure Azure Account Creation <u>Details</u>	Per month, beginning on: 27/05/2018*	Based on Usage	Based on Usage	Remove
					Total	€0,00	

There is currently no end user assigned to this order. Click 'Proceed to Checkout' to assign one.

PROCEED TO CHECKOUT





Fill End User information or select any end user using your email and click on "Continue to Configuration" button.

The following products require en	d user information:	*indicates a required field			
Azure Account Creation					
Please select or enter an end user	for the products above:				
Select From Address Book					
Company Name:*					
Techdata France					
First Name:*	Last Name:*	Title/Position:			
alexandre	moreaux	Cloud Architect			
Dhana Mumhart					
0644892378					
End Customer Email:*	_	O This email address MUST be associated with the end customer domain to set up the account property. If you do			
alexandre.moreaux@techdata.com		not wish to send communication directly to this email you will have the option to specify a different email address			
Confirm End Customer Email+		during the next step in the Account Administration section.			
alexandre.moreaux@techdata.com					
Address Line 1.*					
142 Avenue Stalingrad					
Address Line 2:					
City:*					
Colombes					
Country:*	Zip/Code:*				
France	92700				



Click on "Continue Configuration" button available in Bundle Summary section.

Configuration page should be displayed.

Fill in your Microsoft Partner Network ID.

Click on Create a New end customer Microsoft account button.

Software and Services on Demand	Checkout Logged in with ID: 345802 Log Out
Cart	Payment Summary Complete
< Return to Shopping	③ Sales and Customer Support: <u>+358 20 1553 694</u>
Microsoft Partner Network ID	
Please verify your MPN ID:* <u>1570826</u> Change	Your Microsoft Partner Network ID (MPN ID) is provided by Microsoft and enables you to manage your Microsoft Partner Network account.
End Customer Microsoft Account	
Which end customer Microsoft account would you like to use	Transferring an Advisor, Open or Trial account to CSP?
Which end customer Microsoft account would you like to use for this order?* Transfer an Advisor, Open, or Trial account	Transferring an Advisor, Open or Trial account to CSP? If the domain you wish to transfer is not listed, you will need to complete the authorization steps to continue.
Which end customer Microsoft account would you like to use for this order?* Transfer an Advisor, Open, or Trial account Create a New end customer Microsoft account	Transferring an Advisor, Open or Trial account to CSP? If the domain you wish to transfer is not listed, you will need to complete the authorization steps to continue. > Authorisation steps
Which end customer Microsoft account would you like to use for this order?* Transfer an Advisor, Open, or Trial account Create a New end customer Microsoft account Please enter a new primary domain name:	Transferring an Advisor, Open or Trial account to CSP? If the domain you wish to transfer is not listed, you will need to complete the authorization steps to continue. > Authorisation steps
 Which end customer Microsoft account would you like to use for this order?* Transfer an Advisor, Open, or Trial account Create a New end customer Microsoft account Please enter a new primary domain name: Good news: this domain is available 	Transferring an Advisor, Open or Trial account to CSP? If the domain you wish to transfer is not listed, you will need to complete the authorization steps to continue. > Authorisation steps
Which end customer Microsoft account would you like to use for this order?* Transfer an Advisor, Open, or Trial account Create a New end customer Microsoft account Please enter a new primary domain name: Good news: this domain is available williamtestopenshift.onmicrosoft.com Change	Transferring an Advisor, Open or Trial account to CSP? If the domain you wish to transfer is not listed, you will need to complete the authorization steps to continue. > Authorisation steps

Enter any unique domain name and click on Check Availability button.



Select "The End Customer email" radio button from the "Account Administration" module.

Or select "I will administer the account" radio button from the account administration module and enter the Delegate admin email ID.

Microsoft Partner Network ID	_
Please verify your MPN ID:* 1570826 Change	Your Microsoft Partner Network ID (MPN ID) is provided by Microsoft and enables you to manage your Microsoft Partner Network account.
End Customer Microsoft Account	_
Which end customer Microsoft account would you like to use for this order? ^A	Transferring an Advisor, Open or Trial account to CSP? If the domain you wish to transfer is not listed
> Transfer an Advisor, Open, or Trial account	you will need to complete the authorization steps to continue.
Create a New end customer Microsoft account	> Authorisation steps
Please enter a new primary domain name: Good news: this domain is available NetappONTAP.onmicrosoft.com Change	
> Existing end customer Microsoft account	
Account Administration	
Who should receive the account credentials?	An email will be sent with the account credentials after your order is placed.
The End Customer (alexandre.moreaux@techdata.com)	
O I would like to specify a custom account email address	
Continue to Payn	nent

Click on "Continue to Payment" button.



Enter Reseller PO number.

STREAM INE	Checkout Logged in with ID: 345802 Log Out
Cart \longrightarrow End Customer Info \longrightarrow Azure Settings \longrightarrow	Configuration> Payment> Summary> Complete
< Return to Shopping	(2) Sales and Customer Support: +358 20 1553 694
Purchase Order Info	Operation Payment Method
Reseller PO Number:*	Your default payment method will be used:*
123456789	Terms
End User PO Number:	
You are about to buy some products €500,00 from your account to g co Continu	based on usage. We will temporarily block uarantee initial consumption expenses overage. I <mark>le to Summary</mark>

Click on "Continue to Summary" button.



Verify the information shown and click on "Place Order" button.

End Customer Information Change	✓ Configuration	Cha
Techdata France alexandre moreaux 142 avenue de Stalingrad Colombes, 92700,France alexandre.moreaux@techdata.com	NetApp ONTAP Cloud: West Europe Microsoft Account Domain: NetappONTAP.onmicrosoft.com Credentials will be sent to: alexandre.moreaux@techdata.com	
Order Summary		Edit
Quantity Product	Price Each	Tota
Microsoft's cloud platform, an industry leader You will be billed based on account usage Have a promo code?	for both infrastructure	€0,0
Payment Method Change	Terms and Conditions	
Reseller PO Number: 123456789	✓ I have read and agree to the Reseller Marketplace Terms*	
Payment Method: Terms	✓ I have read and agree to Vendor Terms For Microsoft*	



Your order should be complete.

Qty	M/Part#	Vendor	Description	Date	Promo	Each	Total		
			Items Pu	rchased					
			a		Connord)	uner II			
111: run.r	111111 ana@techdata.com		C F	colombes 92700 France lexandre.moreaux@	techdata	com			
Vess Newb	Data Ltd ex House, Oxford Ro ury, RG14 1PA GB	oad Chineham I	Business Park a 1	Jemo lexandre moreaux .42 avenue de Stalin	grad				
Sold	То:		E	End Customer	Inform	ation:			
Reac	ici i o ii. 125450707								
Rese	r Date: 15-06-2018 0	02:48 PM CEST							
			Order Su	Immary					
,									
When we have completed processing your order: • An email will be sent to your end user with getting started instructions,									
To ch	eck the status of you	ur order please	visit the <u>Reseller Portal</u> an	d view <u>Order Tracki</u>	ng				
You	ink you for you ir order is curr	rently bein	s. g processed.						
ть		, oo				Ret	urn to Shopping		
	lor #\$000186	786							

Total

£0.00

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You should receive an email with your Microsoft Subscription Informations:

Dear alexandre moreaux,		
Your Microsoft account has been setup.		
Please continue to https://login.microsoftonline.com and login with the usern For Azure, please use <u>https://portal.azure.com/</u>	ame and password below for your Office 365 subscriptions.	
Username: admin@alexandreNETAPP2.onmicrosoft.com		
Password: (X3)Nu(3		
Your Subscriptions:		
Name		Quantity
Azure Account Creation		1

Now click on Reseller Portal, then Customer Admin. Look for your Customer and click on IaaS/PaaS.

D TechData Stream	One"	Cloud	Marketplace		Res	ter Resource Center 1 Logged in as ryan b	Reseller Portal Centact Cart 🗐 ergen@lechdata.com Leg Off
You are currently ordering for Aida a	dzinovic of	Tech Data	Change Rezeller				The stands
Home Browse By Categories	Browse	By Vendor					
Welcome Tech Data 703212				South		Address	Book Find
Home Page	Custom	a Admin					
Orders	Custom	er Admin					
Insights	Show 100	entries				Search: IVa	n.b
Recurring Billing		Company			Email		+
Customer Admin	0	Ryan Berger's	Burgers	J	ryan berger@tect	idata.com	
Address Book		SaaS	lasS/PasS	Billing	Quotes	Company Info	Carts
Opportunities	Showing	t to 1 of 1 ent	ies (Filtered from 37 tot	l entries)		First Prev	inum and Next Last
My Profile						CULLE CLUE	



16/01/19	5000250371	StreamOne	Microsoft	M5-AZR-	5K7608	azmostild	Azure	1	
05 SZPM CET	Sandböx			0145P			Account Creation Microsofts cloud platform, an industry leader for both infrastructure- as-a service and platform		

Then click on "Click to Configure":

Home Bro	wse By Categories Browse By V	encor					
leicome Tech Data 7	03212	1925/00	Frank		Address Door	- Feel	
Home Page Ordens Isosights	Status of Subscription Active	Current 12/01/201	Billing Cycle 9 - 11/02/2019	Current Budget £0.00	Subsc	ription Usage CO.00	
Continue Annual		Usi	age Threshold Not	fication at: 0% 🧰			Divefalmen: Data updates e 26 hours
Opportunities							
My Profile	Reseller Information Resider FOR 1234			End User Information			
	Tech Data Wesser House, Control Head C Bauizpisse, Hampshire DG53 S10A/Instroff-mangmethiata 5251223111	brisham Basinens Park 194 GB 901		Huan Berger's Budgens Dipas Berger Bulk York 15 St. Peters Game York YOS3 642 Yosai berger@echdata.com bi526502341			
	Subscription Settings Domain: apricertat/						
	Sidecrytonistic Microsoft	Azure 💼					
	Cirder# Weddor	Name Dat	wyate Munape	Nature preserving ractive	Created Or	Modified On	Need to access your end user's subscription
	Southers States	tana Kepulation	elegale 🕘		16010019 1622 PN CET	TARTONS 10.52 PM CET	for more information on triac to started
	SCHOODER Historication	tion funde		Cas a Curtain	15010018	1501/2019	a Pratrice



Loiathm	
Select data center location	
NorthEurope	8
Resource Group Name	
ASR	
Advanced Bundle Settings	
Name of Recovery Services Vault	
AzureSteRecovery	
Starage Replication for Recovery Services Vault.	
😸 Locally Riekenbert Stirage (LRS)	
○ Gen Rebundant Blorage (GRS)	
Butter New	

ASR post deployment with Hyper-V Source

Register your Hyper-V host(s)

On-premises

Make sure the host is running Windows Server 2012 R2 or above.

Download the Agent

The installer for the Microsoft Azure Site Recovery Provider.

Download the vault registration key to register the host in a Hyper-V site



This download is replication agent to Azure and need to be installed on the Hyper-v Server



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Selecting the Site Recovery and start with Step 1



In this step We select our Protection goal select To Azure, and select Yes, with Hyper-V.

Select No to confirm you're not using VMM.





We need to create a Site of this hyper-v server.

This is a Cosmetic name and points to the Hyper-v server or servers, if this is a Test server then this should be HVtest etc.



I need to install the Agent and use the vault keys to connect to Azure. Also downloaded here





Installing the Hyper-v Agent

Use the Exe just downloaded and follow the steps.

Azure Site Recovery Provid	er Setup (Hyper-V server)	×
Microsoft Upda	te	
Microsoft Update	Microsoft Update offers security and important updates for Windows and other Microsoft software, including Microsoft Azure Site Recovery. Updates are delivered using Automatic Updates, or you can visit Microsoft website.	
Installation	Qe (recommended) Use Microsoft Update to check for updates. Off Do not automatically check for updates. Microsoft Update FaQ Microsoft Update Privacy Statement	
	Next Care	pel

Azure Site Recovery Provid	er Setup (Hyper-V server)		×
Provider Installa	tion		
Microsoft Update	Specify where you wa Recovery Provider an	nt to install the Microsoft Azure Site Recovery Provider. This sets d Azure Recovery Services Agent on this computer.	up will install Azure Site
Installation	Installation Location	CiProgram File/Microsoft Azure Site Recovery Provider	Browge
			justall Cancel

Use a location be careful if not installing on the C drive and not replication the other drive there can be miscommunication in the VM. Better leave this default.





But in case You already played with this or want different naming and started all over the may be an issue " the server is already registered"



To fix this error and enable the ASR Provider and agent setup to complete successfully, follow these steps:

Go to the Register

Make a backup of the following registry key:

HKEY_LOCAL_MACHINESOFTWAREMicrosoftAzure Site Recovery



Delete the registry key that you backed up in step 2.

Restart the Provider and agent setup.



a Microsoft Azure Site Reco	overy Registration Wizard X	(
Vault Settings		
 Vault Settings Proxy Settings Registration 	Select the registration key file you downloaded from the Azure Site Recovery portal and specify vault settings. Learn More Key file Browse Subscription Vault name Hyper-V site name Image: State in the set of	
	Next Cancel	

Use the downloaded Keys and import them.

A Microsoft Azure Site Recovery Registration Wizard X						
Vault Settings						
 Vault Settings Proxy Settings Registration 	Select the registration k Key file Subscription Vault name Hyper-V site name	key file you downloaded from the Azure Site Recovery portal and specify va HVbackupASR_Single-HV01_Tue Feb 07 2017.VaultCredentials 8a48d95c-a131-4f08-b4e8-cc9ccc875ac0 HVbackupASR Single-HV01	ult settings. <u>Learn More</u>			
			Next Cancel			



- AudioCompressionManage ^	Name	Туре	Data
AuthHost	ab (Default)	REG_SZ	(value not set)
- AutoBVT	ab AcsCertificatePrivateKeyContainerName	REG_SZ	{40F2C3E9-9C71-465C-9F6B-549D47A28FF8}
Azure Site Recovery	ab AcsCertificateThumbprint	REG_SZ	F3168AE689D818AD80FF9D3E8E457AE407E3F8F8
ProxySettings	ab AcsUrl	REG_SZ	https://wepod01id1machine54.accesscontrol.windows.net
Registration	ab AudienceUrl	REG_SZ	http://windowscloudbackup/m3
BaselineConfigurationAnal	88 ChannelIntegrityKey	REG_BINARY	01 00 00 00 d0 8c 9d df 01 15 d1 11 8c 7a 00 c0 4f c2 97 eb 01 0
RestPractices	20 ChannelIntegrityKeyTokenLifetime	REG_DWORD	0x00000150 (336)
BidInterface	(ab) ContainerId	REG_SZ	cloud_b56658cf-5f06-5a43-8328-7e753a146474
CallAndMessagingEnhance	(ab) DRARegistered	REG_SZ	True
Cellular	ab DraVersionBackup	REG_SZ	5.1.2000.0
Chkdsk	ab Fabricld	REG_SZ	b56658cf-5f06-5a43-8328-7e753a146474
ClipboardServer	ab FriendlyName	REG_SZ	Hyperv1201.mvp.local
Code Store Database	ab IsAadAuthType	REG_SZ	False
COM3	ab OrgldUserName	REG_SZ	HVbackupASR
Command Processor	ab Resourceld	REG_SZ	8533770143790787569
CommsAPHost	ab ResourceName	REG_SZ	HVbackupASR
Communicator	ab SiteName	REG SZ	Single-HV01
ComponentStudio			

Checking the Register you can see that the key is valid and all the info is there.

Microsoft Azure Site Recovery Re	egistration Wizard	\times
Proxy Settings		
Vault Settings	Specify how the Provider running on the server connect to Azure Site Recovery. Connectivity will be verified when you click Next.	
Proxy Settings	Click next to check connectivity with Azure Site Recovery Service.	
Registration	 Connect directly to Azure Site Recovery without a proxy server Connect to Azure Site Recovery using a proxy server 	
	Pre <u>v</u> ious <u>N</u> ext Cancel	



Microsoft Azure Site Recovery R	S Microsoft Azure Site Recovery Registration Wizard					
Registration						
Vault Settings	The server was registered in the Azure Site Recovery vault					
Proxy Settings Registration						
		Einish				

And the installation is done. It can take some time to add the server to Azure maybe several hops back and forth to the menu



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~	OBRecoveryServicesManagementAgent.exe	0%	13.1 MB
	Microsoft Azure Recovery Services Management Agent		

You can see the process running in the Task manager.

Prepa HVbackup	Prepare infrastructure		3 × 5	Prepare source _
1	Protection goal Hyper-V VMs to Azure	5	/	✓ Step1: Select Hyper-V site * Hyper-V Site Single-HV01 ✓
2	Source Prepare	į	×	✓ Step 2 : Ensure Hyper-V servers are added
3	Target Prepare	į	>	Hyperv1201.mvp.local

Jumping back and to the step 2 you can see the Hyper-v server is added to the Vault.





Added a storage account and a network. If this is not the storage account or network you want no worry you can change this before the replication starts.



Check this if you want a new account or different network.





Next step would be creating a replication policy.

Create and associate po – HVbackupASR		×
* Name 🖲		
hvasr-pol01	~	
Source type 🛛		
Hyper-V	Ý	
Target type 🖲		
Azure]
<u>~ · -</u>		
30 Seconds		
5 Minutes		
15 Minutes		
Recovery point retention in hours		
2		
* App-consistent snapshot frequency in ho	urs 🗊	
Initial replication start time ®		
Immediately	~	
Associated Hyper-V site 🛙		
Single-HV01		

In Create and associate policy specify a policy name.

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In Copy frequency specify how often you want to replicate delta data after the initial replication (every 30 seconds, 5 or 15 minutes).

In Recovery point retention, specify in hours how long the retention window will be for each recovery point. Protected machines can be recovered to any point within a window.

In App-consistent snapshot frequency specify how frequently (1-12 hours) recovery points containing application-consistent snapshots will be created.

Hyper-V uses two types of snapshots — a standard snapshot that provides an incremental snapshot of the entire virtual machine, and an application-consistent snapshot that takes a point-in-time snapshot of the application data inside the virtual machine.

Application-consistent snapshots use Volume Shadow Copy Service (VSS) to ensure that applications are in a consistent state when the snapshot is taken. Note that if you enable application-consistent snapshots, it will affect the performance of applications running on source virtual machines.

Ensure that the value you set is less than the number of additional recovery points you configure.

In Initial replication start time specify when to start the initial replication. The replication occurs over your internet bandwidth so you might want to schedule it o utside your busy hours.





As you can see the policy's are applied but you can create multiple but you can use only one at each site.



Allocating insufficient capacity can lead to replication issues. Site Recovery provides a capacity planner to help you allocate the right resources for your source environment, the site recovery components, networking and storage.

You can run the planner in quick mode for estimations based on an average number of VMs, disks, and storage, or in detailed mode in which you'll input figures at the workload level.



Get the Azure Site Recovery Capacity planner here: Download

Capacity Planner						
INPUTS			OUTPUT			
Infra Inputs source	Manual	Reset to Defaults	Network Bandwidth requirements			
Select your scenario	Hyper-V to Azure	Reset to Delaurts	Bandwidth required for delta replication (in Megabits/sec)	200 Mbps		
Total number of virtual machines	100		Bandwidth required for initial replication (In Megabits/sec)	180 Mbps	Adjust B18,B19 t	o suit available bandwidth
Average number of VHDs per virtual machine	2		Bandwidth refers to dedicated bandwidth for replication.			
Average size of VHD (in GBs)	300		Azure requirements			
Average utilization per disk (%)	70%		Storage required (in GBs)	43400		
Total data to be replicated (in GBs)	42000		Total IOPS on standard storage accounts	3186		
Churn Inputs			Number of standard storage accounts required	5		
Average daily data change rate (%)	5%		Number of Blob disks required	200		
Amount of data changed per day (in GBs)	2100		Number of premium storage accounts required	0		
Compression	0%		Total IOPS on premium storage accounts	0		
Amount of data Xfered per day (in GBs)	2100					
Retention Inputs			Other Infra requirements			
Number of recovery points	16		Number of Configuration Servers required	NA		
Initial Replication Inputs			Number of additional Process Servers required	NA		
Number of hours in which initial replication for						
the batch of virtual machines should complete	16		100% additional storage on the Source	60000		
Number of virtual machines per initial replication						
batch	3					

A quick overview of the Azure Site Recovery Capacity planner

If you skip this or thinking this will be fine I'll show you later what can happen.



Now that all steps are completed in the ASR infrastructure we can start





The replication can't be Throttled only for backup operations you can Enable internet bandwidth usage throttling.



Selecting the Right networks for the replicated VM's and subnets and the correct Storage account.

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—		_	
larget	-		×
HVbackupASR Select your target settings for recovery			
Select your target settings for recovery			
* Target ®			.
Azure		~	
* Subscription ®			
Developer Benefit MVP		~	
Post-failover resource group			
ASR01		¥	
* Post-failover deployment model ®			
Resource Manager		~	
			_
* Storage account			
byasr01		>	
			-
Azure network ®			
Configure now for selected machine	c .	~	1
configure now for selected machine.	<i>.</i>		
Post-failover Azure network			
		>	
Azure-Ask-vnet			
Subnet			
ASR (10.0.0.0/16)		4]
			1

Next is selecting what VM's I need to replicate. If there is no VM list then there is something wrong with your connection.



C Filter settings	1 Source V Single-HV01	Finished retrieving data.
😵 Step 1: Prepare Infrastructure 🔰 🔪		🔎 Filter items
Step 2: Replicate Application	2 Target 🗸 🗸	MVPSCORCH12
Step 3: Manage Recovery Plans >		MVPAZHFS01
	3 Virtual machines > Select	Windows 2012 WDS live
		MVPRAS01
	4 Properties >	Windows 2016 DC Live
	Conligure properties	dpm01 (Disk size unsupported)
	5 Replication settings	MVPGW02
	Configure replication settings	Windows 2012 DC Live
		ex2010
		tstsql161
		2 3 < >
		Selected virtual machines > 0



En HVb	able ackup/	replication _	□ ×	Configure properties	5			_ = ×
	1	Source Single-HV01	~	Selected Virtual N	fachines (1) has non support	ed name format. Please enter	a valid name.	
	2	Toront		NAME	OS TYPE	OS DISK	DISKS TO REPLICATE	TARGET NAME
	2	Azure	~	Defaults	Select 🗸	Need to select per VM.	Need to select per VM.	Fix per VM
				MVPNLB501	Select 🗸	Select 🗸		MVPNLB501
	3	Virtual machines 4 Selected		MVPNLB502	Select 🗸	Select 🗸		MVPNLB502
17				MVPNLB504	Select 🗸	Select 🗸		MVPNLB504
	4	Properties Configure properties		Windows 2012 WDS live	Select 🗸	Select 🗸		Windows 2012 WDS I
-		compute properties						
	5	Replication settings Configure replication settings	>					

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Selecting a few VM's you can see even the names can be changed to the right Azure style or if there a characters in the name that are not supported.

Configure propertie	S			_ 1	⊐ ×
Selected Virtual N	Machines (1) has non suppor	rted name format. Please enter	a valid name.		
NAME	OS TYPE	OS DISK	DISKS TO REPLICATE	TARGET NAME	
Defaults	Select 🗸	V Need to select per VM.	Need to select per VM.	Fix per VM	
MVPNLB501	Windows 🗸	MVPNLB501 👻	All Disks [17] 🗸 🗸	MVPNLB501	
MVPNLB502	Windows 🗸	MVPNLB502 🗸	All Disks [17] 🗸	MVPNLB502	
MVPNLB504	Windows 🗸	MVPNLB504 🗸	All Disks [17] 🗳	MVPNLB504	
Windows 2012 WDS live	Windows	Windows 2012 W 👻	All Disks [2]	Windows2012WDS 🗸	

you can select what disk you want and what to skip.



After these final steps we are ready to replicate



Enable HVbackup/	e replication	•×	Configure replication settings	_ = ×
1	Source	<u>×</u> 1	Replication policy hvasr-pol01	
2	Target Azure	~	Copy frequency Recovery point retention	5 Minutes 2 Hours
3	Virtual machines 4 Selected	V	App consistent snapshot frequency Initial replication start time	1 Hour Immediately
4	Properties Configured	* 2	Encrypt data stored on Azure VMM settings	Off
5	Replication settings Configure replication settings	>		



In a quick overview we can start the replication

	🖸 Rohesh 🕂 Replicate 🔳	Columns			
P Search (Carl+/)	Last refreshed at: 2/7/2017 4/465	0 PM			
Automation script	Freished loading data	from service.			
GETTING STARTED	Transaction of the local statement of the local statement of the local statement of the local statement of the				
in licksp	NAME	HEALTH	518305	ACTIVE LOCATION	
Ste Recovery	Windows 2012 WDS live	Ook	Ending protection	Single-HV01	
MONITORING AND REPORTS	MVPNLESO4	o ox	Enabling protection	Single HV01	
🗄 Jula	MVPNL8502	 oc 	Trabbing protection	Single-HW01	
Alerts and Events	MVPNLES01	■ ok	Inddiag protection	Single HV01	
POLICIES					
Backup policies					
INSTRUCTED ITEMS					
Backup items					
Replicated items	-				

Solutions Factory



The replication is started and as you can see here comes the ASR Capacity planner.

NAME	HEALTH	STATUS	ACTIVE LOCATION
Windows 2012 WDS live	📀 ОК	0% synchronized	Single-HV01
MVPNLB504	📀 ОК	0% synchronized	Single-HV01
MVPNLB502	📀 ОК	0% synchronized	Single-HV01
MVPNLB501	🙁 ОК	0% synchronized	Single-HV01

Checking the Hyper-v server you can see the progress there or in Azure

NAME	HEALTH	STATUS	ACTIVE LOCATION
Windows 2012 WDS live	🛛 ок	Protected	Single-HV01
MVPNLB504	🛛 ок	40% synchronized	Single-HV01
MVPNLB502	🛛 ок	39% synchronized	Single-HV01
MVPNLB501	🛛 ок	39% synchronized	Single-HV01



Windows 2012 WDS live Replicated item	e		* _ 🗆 ×	Settings Windows 2012 WDS live	
🏟 Settings 🛛 🙆 Planned Failo	ver 💰 Unplanned Fail 🗴	Test Failover	••• More		
Essentials ^				<u>کا</u>	
Recovery Services vault HVbackupASR	Source location Single-HV01			SUPPORT + TROUBLESHOOTING	
Replication policy hvasr-pol01	ID 1c057d0a-8b88	3-4e40-a0f9-bac	62e21e20e	X Diagnose and solve problems	>
Target storage account hvasr01	Target size Basic_A1			GENERAL	
Windows Target network	2			Properties	>
Azure-ASR-Vnet			All rettings	Compute and Network	>
			All settings ->	and the second s	>
Replication					
Health		Events		RESOURCE MANAGEMENT	
				🗕 Locks	>
Replication health	📀 ОК				
Status	Protected	•			
		0			
Latest Recovery Points					
Crash-consistent	2/7/2017 6:06:49 PM				
App-consistent	Not available				

Replication Health for "Windows 2012 V	NDS live"	-		×
Replication				
Replication State:	Replication enabled			
Replication Mode:	Primary			
Current Primary Server:	Hyperv1201.mvp.local			
Current Replica Server:	Microsoft Azure			
Replication Health:	Nomal			
Statistics for past 1 Hour 30 Minutes				
From time:	2/7/2017 4:47:05 PM			
To time:	2/7/2017 6:17:29 PM			
Average size:	16.93 GB			
Maximum size:	254 GB			
Average latency:	0:01:41			
Errors encountered:	2 <u>Vew events</u>			
Successful replication cycles:	15 out of 15 (100%)			
Pending replication				
Size of data yet to be replicated:	8 KB			
Last synchronized at:	2/7/2017 6:16:50 PM			
Beset Statistics			Save &	s
Refregh			Qose	1



But As ASR is using ASR you can also drill down on the replica options.

Settings _ 🗖 🗙 Windows 2012 WDS live	Compute and Network Windows 2012 WDS live R Save X Discard		_ 🗆 ×
	Compute properties		
SUPPORT + TROUBLESHOOTING	PROPERTIES	ON-PREMISES	MICROSOFT AZURE
🗙 Diagnose and solve problems 💦 >	Name	Windows 2012 WDS live	Windows2012WDS 🗸
CENEDAI	Resource group		ASR01 👻
	Size	1 cores, 1 GB memory, 1 NICs	A1 (1 cores, 1.75 GB memory, 1 NICs) 🔹
Properties >	Network properties		
Compute and Network	Hother properties		
😑 Disks 🔶	ON-PREMISES NETWORK ON-PREMISES SUB	NET TARGET NETWORK TARGET	SUBNET TARGET IP (OPTIONAL)
RESOURCE MANAGEMENT	HVNET Ý	Azure-ASR-Vnet 👻 ASR (1	0.0.0.0/16) 👻 Defaulted to DHCP
▲ Locks >			

When the replica is done you can change the Azure VM in any way change the network, VM size the VM can be better than on prem.



As ASR stands for recovery you can do a test failover or planned. As you are not using VMM the Azure portal is the Orchestrator for the Failover.



Test fail Windows 201	OVEr 12 WDS live		-		×
Failover From	direction	1]
To 💿 Microsoft	Azure]
Recovery Choose a re	y Point ecovery poi	nt 🔍	/2017 6.1	4	1
 Azure vir 	tual networ	k 🗈	72017 0:1.	. •]
Azure-AS	R-Vnet			Ý]
1	It is recom failover yo from prod specified u Network s machine).	mended th u use a net uction net under Com ettings of t	hat for a te twork diffe work (as pute and he virtual	st rent	

Testing the VM is easy a you can run the VM Side by Side and you can change all the settings. A great option to get started with Azure.

ASR post deployment with VMware Source



Next, we will prepare the source.

We will use the Configuration Server.

This must be installed on Server 2012 R2 on-prem, and will act as a processor to continuously back up VMs to ASR.

Download the setup and vault credentials in step 3 and 4.

C TD SYNNEX

Prepare infrastructure RecoveryServicesVault	Prepare source RecoveryServicesVault	Add Server RecoveryServicesVault
These are long running tasks done on-premises.	+ Configuration Server + vCenter	Server type
Protection goal VMware VMs/physical servers t	→ Step 1: Select Configuration Server	Adding Configuration Server may
2 Source >	+ Configuration Server in the command bar above to setup one on your source environment and register it with this vault.	Register your Configuration Server On-premises
3 Target > Prepare	Step 2: Select vCenter server/vSphere host Complete previous step(s).	 Make sure server on which you plan to set up the Configuration Server is running Windows Server 2012 R2 virtual machine
4 Replication settings > Prepare		 Configure Proxy so that server can access the Service URLs <u>Download the Microsoft Azure Site Recovery</u> Unified Setup
5 Deployment planning > Select		4. Download the vault registration key
		 Run the installer to set up the Configuration Server and Process Server and use the vault registration key to register it with the vault. Learn more.
		 Run cspsconfigtool.exe to create one or more management accounts on the configuration server.
		 If you're protecting VMware VMs make sure the management accounts have administrator permissions on the vCenter server/vSphere host Server/ESXi host from which you'll replicate virtual machines. Learn more.
		 If you're protecting physical servers make sure the management accounts have administrator permissions on the physical server.

Run the Configuration Server setup and choose to install the Configuration Server and process server.





Enter the path to the vault credentials you downloaded on the next step.

8	Microsoft Azure Site Recovery Unified Setup	x
Registration		
 Before You Begin Third Party Software License 	Site Recovery Registration Key	
Registration	DIOWSE	
 Internet Settings Prerequisites Check MySQL Configuration Environment Details Install Location Network Selection Summary Installation Progress 		
	Previous Next Cano	cel



Configure a proxy server if you server does not have a direct connection to the Internet. ASR works directly over the Internet or proxy and does not require a VPN connection to Azure.

Â	Microsoft Azure Site Recovery Unified Setup
Internet connectior	n
 Before You Begin Third Party Software License Registration Internet Settings Prerequisites Check MySQL Configuration Environment Details Install Location Network Selection Summary Installation Progress 	Specify how the Provider running on the server connect to Azure Site Recovery. Connectivity will be verified when you click Next. Click next to check for connectivity with Azure Site Recovery Service Connect directly to Azure Site Recovery without a proxy server Connect to Azure Site Recovery using a proxy server (only HTIP proxy allowed)
	Previous Next Cancel

Check that you pass all prerequisites and continue.



8		Microsoft Azure Site Recovery Unified Setup		x
Prerequisites Che	ck			
 Before You Begin Third Party Software License Registration Internet Settings 	Prereq	uisites Check : Passed: 7, Failed: 0, Warning: 2, Skipped: 0 -Run		
Prerequisites Check		Prerequisites check	Status	
MvSOL Configuration		Min Memory and CPU checks	Warning	
- injoge comparation	۲	Restart pending	Passed	
 Environment Details 	0	Min OS version and Domain Controller check	Passed	
Install Location	0	Checking for required IIS configurations	Passed	
	•	Checking for incompatible Group Policies	Passed	
 Network Selection 	0	Global time sync check	Passed	
Summary	<u> </u>	Free space requirements	Warning	
	0	Checking for Static IP Addresses	Passed	
 Installation Progress 	•	Checking for Strawberry Perl(v5.8.8)	Passed	
			Description Next	Canad
			Previous Next	Cancel

Choose a MySQL password and continue the wizard.

2	Microsoft Azure Site Recovery Unified	Setup			×
MySQL Configuratio	'n				
Before You Begin Third Party Software License Registration Internet Settings	MySQL root password MySQL database (svsystems user) password ••••••	0			
MySQL Configuration Environment Details Install Location Network Selection Summary Installation Progress	Note: Passwords must Contain at least one letter Contain at least one number Contain at least one special character (_!@#\$%) Be between 8-16 characters Contain no spaces		Previous	Next	Cancel



Choose yes when asked to protect VMware virtual machines. This may require you to install VMware tools and the vSphere PowerCLI if they are not already present on the Configuration Server.

8	Microsoft Azure Site Recovery Unified Setup
Environment Detail	S
 Before You Begin Third Party Software License Registration Internet Settings Prerequisites Check MySQL Configuration Environment Details Install Location Network Selection Summary Installation Progress 	If you want to protect VMware virtual machines, Azure Site Recovery need to check for additional components. Do you want to protect VMware virtual machines? • Yes • No • Vsphere PowerCLI 6.0 is installed. • VMware Tools are installed.
	Previous Next Cancel

Choose an install location for the ASR Configuration Server and choose the network interface used for replication traffic on the Configuration Server.



æ	Microsoft Azure Site Recovery Unified Setup	x
Network Selectior	1	
 Before You Begin Third Party Software License Registration Internet Settings Prerequisites Check MySQL Configuration Environment Details Install Location 	Select a Network Interface Card(NIC) and Port for receiving replication traffic. Network Interface Ethernet0 [10.255.252.171] Port 9443	
 Network Selection Summary Installation Progress 	Note : Azure Site Recovery Unified Setup will open two ports for inbound connection on this server. Port 443 will be used by a web server which orchestrates replication operations. This port will be opened on all Network Interfaces assigned to this computer. The data transport port specified above will be used to send/receive replication data. This port will be opened only on the Network Interface selected above. Previous Next Cancel	

Allow setup to complete. It should take 15 minutes or so.

Installation Progress			
Before You Begin	Currently: Downloading MySQL setup file (approximately 5 minut	es)	
Third Party Software License			
Pasistration			
• Registration			
Internet Settings	Steps	Status	
Prerequisites Check	Download MySQL	Downloading	
6	Configuring Internet Information Services features	Pending	
MySQL Configuration	Install third-party components	Pending	
Environment Details	Install configuration server and process server	Pending	
environment Details	Install Microsoft azure site recovery provider	Pending	
Install Location	Install master target server	Pending	
	Configure master target server	Pending	
Network Selection	Install Microsoft azure recovery services agent	Pending	
Summany	Registering with Site Recovery	Pending	
- Sammary	Validating server configuration	Pending	
Installation Progress			



Save the passphrase generated at the end of the installation.

This will be used as an approval mechanism when ASR agents are deployed. You can also regenerate the passphrase later if desired.

Installation Progress Before You Begin Third Party Software License Registration Internet Settings Prerequisites Check MySQL Configuration Environment Details Install Location Network Selection Summary Install Microsoft azure recovery services agent One One One Install Microsoft azure recovery services agent Done One			Microsoft Azun	e Site Recovery Unified Setu	5		X
Before You Begin Third Party Software License Registration Internet Settings Prerequisites Check MySQL Configuration Environment Details Install Location Network Selection Summary	Installation Progress			Configu	ration Server Pass	phrase	×
Prerequisites Check Ø Download MySQL Done MySQL Configuration Ø Install third-party components Done Environment Details Ø Install configuration server and process server Done Install Location Ø Install Microsoft azure site recovery provider Done Network Selection Ø Install Microsoft azure recovery services agent Done Summary Ø Registering with Site Recovery Done Installation Progress Ø Nation generation Done	Before You Begin Third Party Software License Registration Internet Settings		Steps	Configuration Server C You will be asked for th on source and target er Do you want to copy p	onnection Passphrase le connection passphr ivironment. assphrase to clipboard	: ase when installing agents 1? Yes No	
Prerequisites Circle O Download MySQL Done MySQL Configuration Install third-party components Done Environment Details Install configuration server and process server Done Install Location Install Microsoft azure site recovery provider Done Network Selection Install Microsoft azure rarget server Done Summary Registering with Site Recovery Done Installation Progress Validating server configuration Done	Droroquisitos Chack		Download MuSOL		Dona		
MySQL Configuration Install third-party components Done Environment Details Install third-party components Done Install Location Install Microsoft azure site recovery provider Done Network Selection Install Microsoft azure recovery services agent Done Summary Registering with Site Recovery Done Installation Progress Validating server configuration Done	 Prerequisites check 		Configuring Intern	et Information Services features	Done	-	
Environment Details Install configuration server and process server Done Install Location Install Microsoft azure site recovery provider Done Network Selection Install Microsoft azure recovery services agent Done Summary Registering with Site Recovery Done Installation Progress Validating server configuration Done	MySQL Configuration		Install third-narty	components	Done	-	
Environment Details Install Microsoft azure site recovery provider Done Install Location Install Microsoft azure site recovery provider Done Network Selection Install Microsoft azure recovery services agent Done Summary Registering with Site Recovery Done Installation Progress Validating server configuration Done		ŏ	Install configuratio	in server and process server	Done	-	
Install Location Install master target server Done Network Selection Install Microsoft azure recovery services agent Done Summary Registering with Site Recovery Done Installation Progress Validating server configuration Done	Environment Details	i i	Install Microsoft az	ure site recovery provider	Done	-	
Install exclusion One Network Selection Install Microsoft azure recovery services agent Done Summary Registering with Site Recovery Done Installation Progress Validating server configuration Done	Install Location	- A	Install master targe	at server	Done	-	
Network Selection Install Microsoft azure recovery services agent One Summary Validating server configuration Done Validating server configuration		()	Configure master t	arget server	Done	-	
Summary Image: Constant of the second seco	Network Selection	0	Install Microsoft az	rure recovery services agent	Done		
Validating server configuration	- C	0	Registering with Si	te Recovery	Done		
Installation Progress	• Summary	0	Validating server co	onfiguration	Done		
	Installation Progress			5	581		
						Finis	sh

When the installation is complete, you will be prompted to reboot the server – do that before continuing.

After reboot, launch the ASR Configuration tool from Start Menu or just type in "cspsconfigtool.exe" from command prompt.



C-1.	Administrato	r: Commar	id Prompt		_ □	x
Microsoft Windows [Ver (c) 2013 Microsoft Cor	sion 6.3.9600] poration. All ri	ghts rese	rved.			^
C:\Users\Administrator	>cspsconfigtool.	exe				
C:\Users\Administrator	>					
	Microsof	t Azure Site	Recovery Cor	figuration Ser	ver	X
Manage Acr	counts Vault Registration	Localization	ConfigurationDetail	s		
Azure Site Mobility S permission Add A	Recovery needs acco ervice on virtual and ph ns. ccount Edit	ount credenti hysical mach	als to discover v(ines. Setup one Delete	Center servers a or more accoun	nd to insta ts with ad	all the ministrator
						Close

Add an account that has administrative permissions to the VMs you want to migrate from VMware.

Once complete, close the configuration tool.



	Microsoft Azure Site Recovery Configuration Server
age Accounts Vau	It Registration Localization ConfigurationDetails
re Site Recovery vility Service on v nissions.	needs account credentials to discover vCenter servers and to install the irtual and physical machines. Setup one or more accounts with administrate
Add Account	Edit Delete
NAME	USER NAME
orusDR	administrator@vsphere.local

Go back to the Azure portal and go to Step 2 (Prepare).

Your Configuration Server and VMware account should show in the Azure portal after 15 minutes from being added on the local server. Click "+vCenter" and enter the local IP/hostname of the VMware host server in your datacenter. This configures the connection from Azure.





Once the VMware host server is added, you should be able to complete step 2.

Prepare infrastructure RecoveryServicesVault	□ ×	Prepare source RecoveryServicesVault	
These are long running tasks done on-p	oremises.	- Configuration Server - vCenter	
1 Protection goal VMware VMs/physical serve	v rs t	 Step 1: Select Configuration Server * Configuration Server ASRCONFIG01 	~
2 Source Prepare	>	✓ Step 2: Select vCenter server/vSphe	ere host
3 Target Prepare	>	vCenter server/vSphere host CorusDR	~
4 Replication settings Prepare	Σ		
5 Deployment planning Select	>		
OK		ок	

On step 3, enter the resource group and subscription that you'd like to use for ASR.





On step 4, click Create and Associate.





You will now create a backup policy.

The RPO threshold controls how often data recovery points are created. The Recovery Point Retention controls how long data recovery points are stored

(your limit is 24 hours if you used premium storage for your blob, or 72 hours if you used standard storage). The default values work fine if you're not sure what to use, and new policies can be created and applied later.



Create a	_ □ × nd associate policy REVIEW
* Name 0	
vmware-p	olicy ×
Source type	0
VMware /	Physical machines 🛛 🗸
Target type	0
Azure	~
* RPO three	hold in mins 🛛
15	
* Recovery	point retention in hours 0
24	
* App-cons 60 Failback rec	istent snapshot frequency in mins 0
Enter poli	cy name
0	A replication policy for failback from Azure to on-premises will be automatically created with the same settings.
Associated	Configuration Server 0
CONTOSC	9-CS
ОК	

Your replication policy should now be created and associated, and you can continue to Step 5.





Step 5 is a friendly reminder to plan for your network bandwidth and storage. In short, you should balance the frequency of backup snapshots with the storage and bandwidth requirements of your environment. If snapshot jobs take longer to run, you may want to reduce their frequency so they don't overlap.



The ASR agent is also referred to as the Mobility Service, which can be deployed several ways. In this guide, we will install it manually using the GUI on our target server which will be restored to ASR.

For all of the ways to install the ASR agent, check <u>https://docs.microsoft.com/en-us/</u> <u>azure/site-recovery/vmware-walkthrough-install-mobility</u>

On the Configuration Server, the installation files for the ASR Agent/Mobility Service are located under:

C_I*ProgramData**ASR**home**svsystems**pushinstallsvc**repository* Copy them to the target server and run the binary that matches the OS of the target system.



LA DE	Application Tooli	repository			
Fire Mone Shar	n View Manage				
• • • • • • • • • • • • • • • • •	Network + assconfig01 + C\$ + ProgramData + ASR + home + verystems + push	hinitallow: + repository		× 0	1
Favorite:	Niena	Date modified	Туре	Set	
E Desktop	DEBIAN7-64_pushinitaliclient.tar.gz	6/15/2017 1:27 AM	OZ Frie	4,1061(3)	
Downloads	DEBIANS-64, purchinutal client star.gz	8/15/2017 1:35 AM	42100	4,313 (0)	
S Recent places	Microsoft-ASR_UA_9.11.1.0_DEBUN7-64_GA_15Aug2017_Release tax.gz	II/15/2017 1:26 AM	GZ File	110,422 KB	
	Microsoft-ASR, UA, 9.11.1.0, DEBIANB-64, GA, 15Aug2017, Release tar.gz	8/15/2017 1:34 AM	GZ File	121,721 KB	
H This PC	Microsoft-ASR UA 9.11.1.0, OL6-64, GA, 15Aug2017, Release tar.gz	8/15/2017 1-19 AM	67 File	118,537 kB	
	Microsoft-ASR_UA_9.11.1.0_FHEL5-64_GA_15Aug2017_Release.tar.gz	II/15/2017 1.30 AM	AZ File	128,706 KB	
Network	Microsoft-ASR_UA_9.11.1.0_RHEL6-64_0A_15Aug2017_Release tax.gz	10/15/2017 1:22 AM	QZ File	105,354300	
	Microsoft-ASR, UA, 9.11.1.0, RHEL7-64, GA, 15Aug2017, Release tar.gz	W15/2017 1-25 AM	0Z File	100,050 KB	
	Microsoft-ASR, UA, 9:11.1.0, SLES11-SP3-64, GA, 15Aug2017, Release tar.gz	8/15/2017 1:18 AM	GZ File	101,700 KB	
	Microsoft-ASR_UA_R11.1.0_SLES11-SP4-64_GA_1SAug2017_Release.tar.gz	W15/2017 1:20 AM	0.2 File	101,692 (0)	
	Microsoft-AGR_UA_9.11.1.0_UBUNTU-14.04-64_GA_15Aug2017_Release.tar.gz	10/15/2017 3:00 AM	GZ File	172,392 KB	
	Microsoft-ASR_UA_9.11.1.0_UBUNTU-16.04-64_GA_15Aug2017_Release.tar.gz	8/15/2017 2:02 AM	0Z.File	141,505 KB	
	Microsoft-ASR_UA_9.11.1.0_Windows_GA_15Aug2017_Release	8/15/2017 4-51 AM	Application	59,290 KB	
	0L6-64_pushinutaliclienttas.gz	1215/2017 1:29 AM	Q2.File	4,3691(8)	
	RHELS-64, purhinitalicient tar.gz	IV15/20171-21-AM	0.Z Film	4,512.40	
	9HEL6-64, pushin stall client tar.gz	10/15/2017 1:22 AM	GZ File	4,796.151	
	RHEL7-64_pushinstallolient.tan.gz	II/15/2017 1:25 AM	97.File	4,174.83	
	SLES11-SP3-64_purchinettalliclient.tax.gz	8/15/2017 1:18 AM	GZ File	4,29348	
	311511-SP4-66, pushinutalicitent tar.gz	IL/15/2017 1-21 AM	GZ File	4,292 101	
	UBUNTU-14.04-64, purhinstall client tar.gz	11/15/2017 5:00,AM	QZ File	4,192 10	
	UBUNTU-16.04-64_pushinstallclient.tar.gz	8/15/2017 2:02 AM	WZ File	4,456 KE	

Launch the setup and choose Install Mobility Service.

<u> </u>	Microsoft Azure Site Recovery Unified Agent
Installation Optic	on
Instalistion Option Instaliation Progress	Select the component you would like to install Install mobility service Install mobility service on machine that you want to protect. Install mobility service on machine that you want to protect. Install master target Master target servers are required during failing back from Azure to on-premises. The master target server acts as a target for the replicated data during the failover from Azure to on-premises.
	Previous Next Cancel

Enter the IP address for your Configuration Server and enter the passphrase that was generated at the end of the Configuration Server setup process.



Ť.		Microsoft Azure Site Recov	ery Unified	d Agent	
Registration					
Configuration Server Details	Please en	ter configuration server details below	6		
	Configur	ation server IP address		10.255.252.171	
	Configur	ation server passphrase			
	0	Running registration prerequisites	Complete	d	
	0	Performing registration	Complete	d	
	0	Validating configuration	Complete	d	
					Register Finish

Give the agent an installation path and Proceed to Configuration, which will complete the setup process.

Installation Progr	ess			
Installation Option	This wiger	d will install Microsoft Azure Site Reco	overy Mobility Server on your compute	r.
Installation Progress	Install loci	tion C/Orogram Files (x86)/Micros	oft Azure Site Recovery/agent	Browse
	0	Running installation prerequisites	Completed	
	0	Installing binaries	Completed	
	0	Running post install configurations	Completed	
	Agent is	not yet configured. Press Next to c	onfigure the agent.	

The agent will check into the Configuration Server and be available in the Azure portal.



Go back to your Recovery Services Vault in Azure and choose Replicate in the top menu.

	Backup Replicate	Delete	
Overview	We are listening, Tell us about Recovery and help us improve	your experience with Azure Backup and / or Azure Site our product. Take the survey now!	1
Activity log	Essentials 🔨		
	Resource group (change)	Backup items	
Access control (IAM)	AzureSiteRecoveryDemo	0	
	Status	Backup management servers	
Tags	Active	0	
1212 1411 10 10 10 10 10 10 10 10 10 10 10 10 1	Location	Replicated items	
X Diagnose and solve problems	East US 2	0	
	Subscription name (change)		
	Pay-As-You-Go		
SETTINGS	Subscription ID		
1000	e62bdc24-ea71-4484-90f6-a3eb4	15bc1ba8	

Choose your source settings which use the Configuration Server and the VMware host account.

Enable RecoverySe	replication	■ ×	Source RecoveryServicesVault	■ ×
			Select your source environment	
1	Source	>	Source	
	sonigare		On-premises	*
2	All de la constance	20	* Source location 0	
2	Select	2	ASRCONFIG01	~
	in Forballan P		* Machine type 0	
2	Replication settings	8	Virtual Machines	¥
5	Configure replication settings	1	* vCenter server/vSphere host 0	
			CorusDR	~
			* Process server 0	
			ASRCONFIG01 (Inbuilt Process Server)	~

In Step 2, configure your recovery target. These settings control where a restored VM will reside once it has been failed over to Azure.



Enable replie RecoveryServicesVa	cation		×	Target RecoveryServicesVault		×
				Select your target settings for recovery		
1 Sourc ASRC	e DNFIG01	~		* Target 0		
			-	Azure	*	
) Targe	E)	5		* Subscription 0		
Confi	gure	1		Pay-As-You-Go	*	
				Post-failover resource group 0		
3 Virtua	l machines	>		AzureSiteRecoveryDemo	target settings for recovery tion ● ou-Go er resource group ● eRecoveryDemo over deployment model ● Manager account ● j0asr vork ● e now for selected machines. over Azure network ●	
Select			 * Target ● Azure * Subscription ● Pay-As-You-Go Post-failover resource group ● AzureSiteRecoveryDemo * Post-failover deployment model ● Resource Manager * Storage account ● corus360asr Azure network ● Configure now for selected machines. Post-failover Azure network ● ASR 			
				Resource Manager	*	
4 Prope Confid	rties ture properties	>		* Storage account 0	~	
				corus360asr	/	
C Replic	ation settings	>		Azure network 🖲		
Confi	gure replication settings	Ľ		Configure now for selected machines.	~	
1				Post-failover Azure network 🛛	~	
				ASR	/	
				Subnet O		
				default (20.255.252.0/24)	~	

In Step 3, check the box next to the VMs that you want to be able to restore to Azure Site Recovery.

These will need the ASR agent installed if you have not done so already. In this guide, we will use just one target server.



Enable replication RecoveryServicesVault	∎ ×	Select virtual machines 🛛 🗖 🗙
1 Source ASRCONFIG01	~	Finished retrieving data.
2 Target Azure	~	 ✓ Filter items ✓ Heffner_ASRSVR01
3 Virtual machines Select	>	
4 Properties Configure properties	>.	
5 Replication settings Configure replication setting	is >	1 2 3 🔇 >
		Selected virtual machines 0 >

In Step 4, configure the VM settings for the restored VM in Azure.

These are properties like the size of the VM, managed disks, etc. These settings can be modified later if you're not sure what to use yet.



Enable	replication	• ×	Configure properties	8				∎ ×
1	Source ASRCONFIG01	~	Selected Visual 8	Auchines (1) has unsupported	raine format. P	Nazie eriter a salid name.		
2	-	36	NAME	ACCOUNT		DISKS TO REPLICATE	TARGET NAME	
2	Azure	*	Defaults	CorusDR	¥	News/ to select per VM.	Fix per VM	
			Heffner_ASRSVR01	CorusDR	v]	Disk0(Basic,OS) [100.00.GB,	ASRSVR01	· · · ·
3	Virtual machines 1 Selected	*						
4	Properties	>						
	Configure properties							
5	Replication antivigal Configure replication settings	8						

On step 5, you can choose the Replication Policy that you'd like to use, which we created in a previous step.

Enable Multi-VM consistency if you are backing up multiple VMs that share the same workloads.



Now that replication has been configured, you can see every VM being protected under Replication Items under the Recovery Services Vault. Each item will have a synchronization status.

Solutions Factory





If you click one of the replicated items, you can view/change the properties set during initial configuration, but you can also choose to Test Failover, which will spin up an instance of the protected VM in Azure within minutes. Choosing Failover will perform a real production failover.



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Latest Recovery Points								
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Once the failover completes, you should see the replicated VM running in your Resource Group. Using the test failover method will leave the original VM intact and append the name of the Azure VM with a "-test".



AzureSiteRecoveryDemo							* ×	
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Automation script								

From here, you can utilize your Disaster Recovery site in Azure Site Recovery or use ASR as a migration tool to easily move your systems up to Azure.