

eFolder BDR for Replibit

Addendum to Replibit Administration Guide



Addendum to Replibit Administration Guide Version 1.0







eFolder Addendum

This document is an eFolder-specific Addendum to the, "Replibit Administration Guide." It should be used in conjunction with this guide which can be accessed from the following link: https://backup.securewebportal.net/efolder/files/Replibit/Replibit Administrators Guide.pdf

This Addendum contains the following five sections specific to eFolder's backup process:

- 1. <u>eFolder BDR for Replibit Notes</u>
- 2. eFolder BDR for Replibit Seeding Process
- 3. <u>eFolder BDR for Replibit Vault Set up Process</u>
- 4. <u>eFolder BDR for Replibit Troubleshooting Common Installation Issues</u>
- 5. <u>eFolder BDR for Replibit Disaster Recovery Process</u>

eFolder Customer Support

At eFolder, we want to help you quickly resolve your technical issues and value your input to build products that incorporate your suggestions.

To contact eFolder Technical Support, call 1-800-352-0248 and select Option 2, then Option 1 or submit guestions to ReplibitSupport@eFolder.net.

For known problem resolutions, open a browser and navigate to:

Knowledgebase:

https://secure.efoldering.com/support/index.php?/efolder/Knowledgebase/List/Index/69/bdr-for-replibit





1. eFolder BDR for Replibit - Notes

Installing the Replibit OS

- With some hardware, Replibit will automatically start the install without any prompts.
 This will delete all data on the drive that you are using to install Replibit. Therefore, do
 not boot a machine with the Replibit install that has data on it if you want to keep the
 data.
- Before you can deploy the Replibit appliance on-site for a customer, you MUST register your customers and locations in the Replibit Licensing Portal. If this registration process is not completed in the Licensing Portal, you will not see, or be able to set up, customers or locations when you sign into Replibit; (Replibit needs to communicate to the Licensing Portal to pull in your customer data); therefore, registering your customers and locations in the Licensing Portal is not an optional step. Please see the, "Using the Licensing Portal," section in the, "Replibit Administration Guide," for specific steps on Performing the registration process in the Replibit Licensing Portal.
- When installing Replibit, the typical download is approximately 1.5 GB so please wait up to five (5) minutes for the download to complete. You can check the, "View Downloads" internet explorer pop-up window for a status.





2. eFolder BDR for Replibit - Seeding Process

Why use a preload (seed) drive?

- If you have a large amount of data to initially backup for an account, you may want to streamline this process by requesting a preload (seed) drive from us.
- To help determine if this procedure may be necessary for you, please see the Knowledgebase articles below to estimate how long the initial backup job will take when sending data over the Internet.
- We recommend using a preload (seed) drive any time you are backing up more than 100GB of data on a standard Internet connection.
- eFolder offers a round-trip preloading (seeding) service, which includes everything required to properly preload (seed) your account. Depending on the shipping option you choose, it could take a few days to receive your drive, so we recommend starting the process as soon as possible.
- Please review <u>How to Request a Preload Drive</u> to get started.
- If you decide to request your preload drive, please click Request a Preload (Seed) Drive.
- Note: Instructions for EU/Canadian partners can be found:
 How to preload to an eFolder data center in EMEA or Canada.pdf





How to preload (seed) Replibit data to a hard drive

- 1. Log in to your local Replibit Appliance.
- 2. On the Management menu, click the Protected Systems tab.
- 3. On the **Protected Systems** page, locate the agent you are seeding in the **Systems Name** column and click the **Seed** icon in the **Actions** column on the right.
- 4. A new window appears asking for the location of your seed drive. Make sure your seed drive is connected and select the root directory as the storage location; then, click **OK**.
- 5. Repeat steps 3 and 4 for each agent you are seeding to your Replibit Cloud Vault.
- 6. To monitor the seed creation job, select the **Jobs** tab on the **Vaults Management** menu and highlight the agent to display a percent status indicator. A green check mark appears when processing is completed.
- 7. When all the protected systems have been seeded to the USB drive, disconnect and ship it back using the provided shipping label.

Note: Please be sure to create a *readme.txt file* on the USB seed drive that includes the following information:

- The name of the Replibit Cloud node you are seeding, such as rb-mynode 1, and
- Your full contact information.

Without this information, you could experience a delay in processing your seed data.

- 8. You will receive an email from our Data Center first telling you that they have received the drive and then a second email with the URL link(s) that you will need to import the seed into your Vault.
- 9. After you receive the URL link(s), log on to your Vault and click on the seed icon next to the protected system and then enter the URL link. Only import one seed at a time. Monitor the import in the Jobs section.



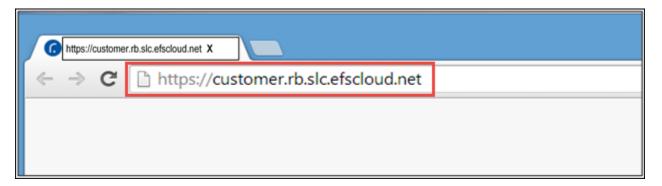


3. eFolder BDR for Replibit - Vault Set up Process

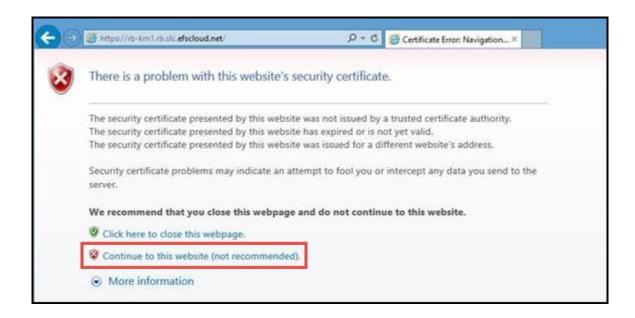
After you order an eFolder BDR for Replibit, eFolder will provision a core and email you the information for accessing your eFolder Vault. If you have *not* received this information, please check with the contact person within your organization before proceeding with these steps.

1. Enter the web URL from eFolder in a browser window. This is your eFolder Vault. When you enter the link, it will open a browser.

Note: The following URL is provided only as an example.



When accessing the URL, you may see a message from you browser that a self-signed certificate does not match the full hostname—this is normal and should be ignored. If you see a message indicating the connection is not safe, ignore it and click,"Continue to this website."







2. This is the normal window that will display. Click **Proceed** to continue.



3. After reading the agreement, select, "I accept the terms in the license agreement" if you are in agreement; then, click I Agree.







4. Select First machine in Cluster; then, click Next.



5. Select Vault; then click Next.



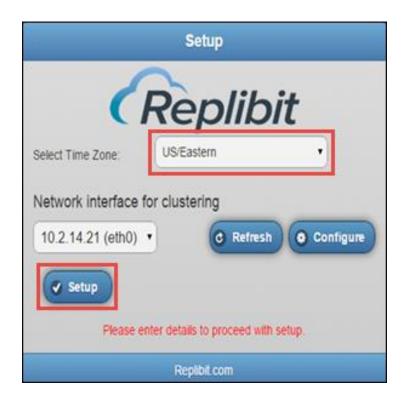




6. Type the Reseller Username and Reseller Password in their respective fields. Note: these are the Replibit License Portal credentials you received from eFolder. Click Next.



7. Select your **Time Zone** from the drop-down menu; then, click **Setup**.



8. The system will then reboot. To complete the setup configuration, please allow ample time (up to three minutes) and wait until this process completes.





9. Type the *Username* and *Password* in their respective fields. Note: The default is *admin* and *password* with all characters in lower case; then click Login



10. After login, the Vault Management screen is displayed. Click **Manage Storage** on the left; then, click **Storage Pool** on the right.

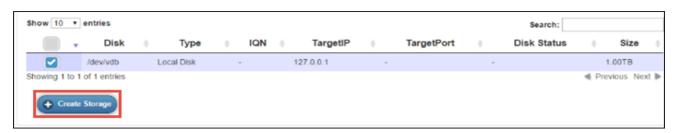




11. Select the Unused Disks tab; then click on the gray button to add a disk.



12. Click Create Storage.



13. When the "Confirmation" message appears, click **Yes** to continue.







Assign Replication

NOTE: The following instructions apply to the Appliance Web Portal. Switch to the Appliance Web Portal to complete these steps.

The Vault Settings Page in the Replibit Appliance Software is divided into three columns:

Name, IP, and Action.

1. Below the *Name* column, click **Add Vault**.



- 2. Enter any name you prefer in the *Name* field.
- 3. Enter your eFolder server name in the *IP Address* field. Do *NOT* include https://
- 4. Click **Test Connection** to verify the connection to the eFolder Vault.
- 5. After verifying the connection, check the **Enabled** checkbox.





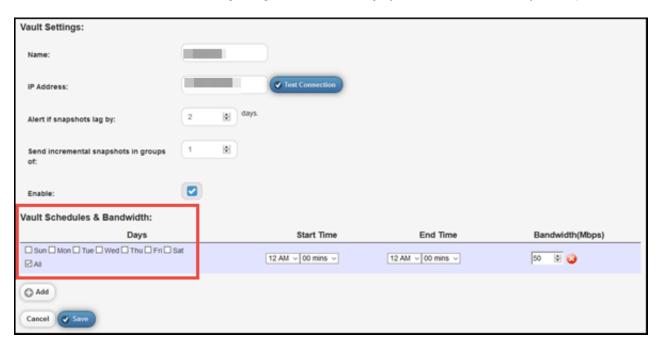


Enter Vault Schedules and Bandwidth

An unlimited number of schedules can be entered for replication that have different bandwidths for each day and hour. However, if you skip certain hours in the schedule or do *not* enter a schedule, no offsite replication will occur during that time period. This may cause serious issues in the future. Schedule changes take effect immediately.

To enter a schedule:

1. At the bottom of the Vault Settings Page, select the Days you would like to run your replication.







2. Then set the Start Time and End Time from each of the drop-down menus.



3. Click the down arrow and select the Bandwidth throttling.



4. Click Add to create a schedule.







- 5. Repeat Steps 1 through 4 to enter additional schedules.
- 6. Click Save when you are complete.



To edit or delete a schedule:

1. Click an icon below the Action column on the Vault Settings Page to edit () or delete () a schedule.



2. Deleting a schedule displays the following "Confirmation" message. Please click **Delete** to permanently remove a schedule for replication.







After deleting a schedule, any protected system using this schedule will no longer replicate offsite. Deleting the Vault schedule does *NOT* delete the Vault nor does it delete any data at the offsite location. However, all new incrementals sent to the Replibit Appliance are placed in a queue. If too many dates are queued and the client's bandwidth is low, the Vault may need reseeding.

Note:

eFolder Hosted Vaults

The Replibit vaults that are hosted at eFolder do *not* allow virtualization directly on the Vault and the *Nightly Boot VM Check* option should *not* be used. In a real world disaster which requires the protected systems to be virtualized in the cloud, you <u>must</u> first contact eFolder Tech Support and request a CCNode. We will configure your Vault to export to a CCNode and then send you the instructions needed on how to recover the protected systems.





4. eFolder BDR for Replibit - Troubleshooting Common Installation Issues

Because the "troubleshooting" section is updated on a frequent basis, please download a current copy prior to each use from the following link:

eFolder BDR for Replibit - Troubleshooting Guide

To quickly troubleshoot frequent Replibit tasks, please access detailed instructions from the following links:

- A. How to download your initial Replibit ISO software
- B. How to troubleshoot failed backup jobs using the Replibit Backup Analysis Tool
- C. How to troubleshoot Replibit VSS issues
- D. How to troubleshoot your CPU usage
- E. How to troubleshoot the Appliance not communicating with the Replibit Licensing Portal
- F. How to perform the Appliance migration process
- G. How to replace a failed disk in the backup storage pool



A. How to download your initial Replibit ISO software

To install Replibit, you will need to download the Replibit ISO file and burn the ISO to a bootable flash drive.

- 1. Before you begin your Replibit Software download, note that Replibit *may* automatically start the installation without any prompts when using certain hardware; therefore, please use a machine that you do *not* need to preserve any data on, as Replibit may delete your computer's contents during the install process.
- 2. Download the latest version of the Replibit Software using the link below; (select your download link under, "Downloads" from the Replibit page, agree to the "License Agreement" Terms and Conditions, and click Open/Save):

Replibit .iso download

Note: This downloading process may take up to five minutes (the typical download is approximately 1.5 GB), so please check your "View Downloads"—Internet Explorer pop-up window for a status if needed.

For comprehensive step-by-step instructions on the complete installation process, please refer to the, "Replibit Administration Guide," using the following link: https://backup.securewebportal.net/efolder/files/Replibit/Replibit Administrators Guide.pdf





B. How to troubleshoot failed backup jobs using the Replibit Backup Analysis Tool

- 1. Once you have installed Replibit, it is *highly recommended* to check your backups. Test your backups by:
 - mounting,
 - booting as a VM,
 - exporting as a virtual disk, and
 - exporting as a Bare Metal Restore.
- 2. If you experience *any* failed backup jobs, please troubleshoot them using the following procedure:
 - Download the latest copy of the Replibit Backup Analysis Tool from the KB article:

Backup Analysis Tool or

http://ftp.replibit.net/isodownload/RepAnalysisTool.exe

The Replibit Backup Analysis Tool will analyze the health of a Protected System, capture logs, and creates a text file with a synopsis of any issues it finds.

Note:

- You will need Administrator Privileges to run the Replibit Backup Analysis Tool.
- You will need to run the tool on the Protected System from an elevated command prompt after stopping the Replibit service.
- The tool will create a .zip file in the C:\ReplibitAnalysisTool\Replibit folder along with all other files.
- Please send eFolder *only* the .zip file when directed.
- When you run the tool, please click the Enter button when prompted to keep the data local.

After the tool is finished, you can open up the text file it created (problems.txt) and start troubleshooting the items it detected.





Some of the Replibit Backup Analysis Tool integrity tests include:

- Ensuring that Replibit can traverse the directory structure,
- Numerating out the directories,
- Reading-down the Master File Table and looking for orphan objects,
- Checking for a bad pointer within the Master File Table,
- Checking for high fragmentation levels (which affects virtualization from Windows),
- Checking for any DLL mismatches,
- Running a real-time tracking mechanism that creates a hash file,
- Running a full differential in the last backup day (automatically) to compare every block in the backup set to that of the production set,
- Real-time resilvering of data,
- Tracking Window Boot DLL files' expectation of virtualization (proper modifications to Boot DLL files greatly impacts stability and performance on Virtualization).

If any piece of the data set exceeds the tolerances, Replibit will proactively fail the backup and send you a notification so you can troubleshoot.



C. How to troubleshoot Replibit VSS issues

Replibit and VSS Troubleshooting

When a Replibit backup fails, the problem is almost always caused by the failure of the Microsoft VSS provider, or one of the application-specific VSS writers. This section and the, "Replibit and VSS Troubleshooting" link above will help you to diagnose these failures.

The top 10 reasons for backup failures associated with VSS include:

- 1. Snapshot creation failed due to Windows VSS failure.
- 2. There is not enough Shadow Copy storage space to create a backup.
- 3. A VSS writer is in a failed state.
- 4. A volume does not pass a CheckDisk (chkdsk).
- 5. The Master File Table is highly fragmented.
- 6. A volume is extremely fragmented.
- 7. Another application interrupted the snapshot creation.
- 8. An uninstalled backup application left behind its VSS provider.
- 9. The OS does not pass a System File Checker (SFC) scan.
- 10. A Windows Server Backup disk is online.

If you require additional troubleshooting on VSS issues, please access your related error(s) from the articles in the VSS Search Results:

- VSSADMIN List Writers and their Services VSS
- Backup failure, VSS WMI Writer unregistered
- Windows Event Log: VSS Event ID 12292
- Error: "snapshot creation for the volume has failed" in aristos.log.
- Remove Unwanted VSS Provider
- Re-registering VSSAdmin Writers not stable
- Old Installation of Acronis Prevents Replibit Backups
- <u>Selected writer 'SqlServerWriter' is in failed state Status: 8</u>
- Event ID 12297 VSS Shadow Copy Creation and Storage Space Availability



D. How to troubleshoot your CPU usage

If you are experiencing performance issues, please follow these steps:

- 1. Look at the system resources.
 - a) CPU and RAM usage are easy to monitor by opening Task Manager.
 - b) Additionally, the disk sub-system can greatly affect VSS performance.
- 2. Monitor the CPU before and after the backup to set a baseline and to observe the change.
 - a) If the system is running an old or low-end CPU, you may already have a high CPU usage baseline, and running another service will exceed your CPU's capacity.
 - b) If this is the case, please adjust the 'Worker Threads' or set the 'Affinity' to increase the backup duration using the Knowledgebase articles shown below; the Replibit agent defaults to backup all volumes and uses four worker threads per processor core. The KB articles below demonstrate how to specify which volumes are backups and how many worker threads are utilized.

Modifying the Replibit Agent - Set Volumes and Worker Threads - aristos.cfg

https://replibit.kayako.com/Knowledgebase/Article/View/16/0/modifying-the-replibit-agent---set-volumes-and-worker-threads---aristoscfg

Note: Lowering the amount of worker threads will reduce the speed of the backup. If the backups start overlapping, you may need to increase the time between snapshots.

- 3. As with the CPU, monitor the RAM and pagefile usage prior to, and during, a backup.
 - a) If the Protected System is already using all of the available RAM, the VSS service will end up using the slower pagefile.
 - b) Adding more RAM is the best option but you can also look at reducing the amount of RAM other services are using.
 - c) By default, exchange and SQL will use all available RAM.
 - d) A quick web search will guide you on setting the maximum RAM that different services can use.
 - e) Run chkdsk and then defrag all the partitions being backed up.
 - f) Remember that VSS needs free disk space to create the ShadowCopies.





How to troubleshoot your CPU usage (continued)

g) If changing worker threads to as low as one still does not work, you can try changing the affinity on aristosagent to lower CPU usage while a backup is running by executing these two commands from a raised CMD or .BAT file:

wmic process where name="AristosAgent.exe" CALL setpriority "below normal" PowerShell "\$Process = Get-Process AristosAgent; \$Process.ProcessorAffinity=1"

Note: As guidance, you can create a .BAT file with the two commands, then create a recurring scheduled task to run the .BAT file during or after a scheduled backup kicks off. Then you will know that *AristosAgent.exe* will be running.

E. How to troubleshoot the Appliance not communicating with the Replibit Licensing Portal

- 1. When you set up your Replibit Appliance for the first time, you will need to logon with a Replibit Reseller Account so you can choose the Customer and Location.
- 2. If you are having trouble connecting to: *licesing.replibit.com*, please follow the troubleshooting steps below:
 - a. Change the DNS setting to 8.8.8.8; then try to log on again.
 - b. Verify that outbound traffic is not being blocked.





F. How to perform the Appliance migration process

Note: Please perform each of the following migration steps below *one at a time on each protected system.* DO *NOT* ATTEMPT TO DO THIS ON ALL SYSTEMS AT THE SAME TIME.

- 1. Stop and disable the Replibit service on the Protected System.
- 2. Disable replication of the Protected System on the original appliance.
- 3. Add 20 days to the Retention Policy on both the appliance and the vault so data will *not* be deleted during this process.
- 4. Migrate the Protected System via USB or Network in the **Details** page of that Protected System on the appliance.
- 5. After the migration is complete, verify on the new Appliance that the data is there and is recoverable. Additionally, boot in **Test** mode.
- 6. Change the IP address of the appliance in *aristos.cfg* located in **c:\program files (x86)\replibit** to the new appliance's IP.
- 7. Enable the Replibit service on the Protected System.
- 8. After several backups have run, repeat the verification process by ensuring that the data is present and is recoverable.
- 9. Enable Replication on the new Appliance to the Vault.
- 10. After the replication is back in sync, remove the 20 days on the retention policy.

For comprehensive step-by-step instructions on the complete installation process, please reference the, "Replibit Administration Guide," using the following link:

https://backup.securewebportal.net/efolder/files/Replibit/Replibit Administrators Guide.pdf





G. How to replace a failed disk in the backup storage pool

https://replibit.kayako.com/Knowledgebase/Article/View/113/0/replacing-a-failed-disk-in-the-backup-storage-pool

- 1. If your pool has lost a disk but the RAID is still intact (you have *not* lost two disks in a RAID5 or three disks in a RAID6), your pool will be in a degraded state.
- 2. Use the *Storage Pool* drop-down to find the Failed Disk(s) section. In this section you should be able to see your failed disk.
- 3. After physically replacing the failed disk:
 - a. Recreate the disk as a RAID0 (if the RAID controller is *not* passing the disks as JBOD) with a disk of equal or greater size. In this scenario, you will need to reboot.
 - b. After this is complete, use the *Storage Pool* drop-down to find the **Unused Disk(s)** section. In this section, you should find an unused disk.
- 4. Return to the Failed Disk(s) section, and click Replace next to the failed disk. Select the correct Unused Disk and click Replace.
- 5. A popup will display notifying you that the disk is being replaced.
- 6. While the disk is being replaced, you will see the resilvering status under *Storage Status*.
- 7. When the resilvering process is complete, the pool will return to an Online Status.





Key Replibit Knowledgebase Links & Guides:

All Replibit Knowledgebase articles

eFolder's Replibit FAQ

How To Create an eFolder BDR for Replibit Preload (Seed) Drive PDF

Replibit Backup Analysis Tool (no port or ticket needed)

Top 10 Reasons for Backup Failures

eFolder BDR for Replibit – Quick Start Guide

UEFI Based Systems

Hard Drive Configuration Requirements - Best Practice

eFolder BDR for Replibit Supported Environments Guide

eFolder BDR for Replibit Best Practices for Software Installation

Replibit Ports

Modifying the Replibit Agent - Set Volumes and Worker Threads

How to fix missing BCD files with EISA partitions - BootVM Fails

OpenDNS - Network Security Service

ConnectWise Integration Guide

Appliance Migration Process

Bare Metal Restore Guide





5. eFolder BDR for Replibit - Disaster Recovery Process

Solution Overview

Prepare for the worst-case scenario with the eFolder Continuity Cloud. Downtime of critical infrastructure can cost a business dearly. When disaster strikes, backups will not be enough to keep businesses operating smoothly. The eFolder Continuity Cloud allows bare-metal backup images stored in eFolder's storage cloud to be virtualized in the cloud in minutes or hours, not days or weeks. These virtual servers can then be connected to the Internet and existing LAN networks through a virtual firewall and router or VPN tunnels.

Note: To successfully deploy a Replibit Protected System on a CC Node, you will need a general knowledge of Replibit, Hyper-V, and Pfsense.

Technical Overview

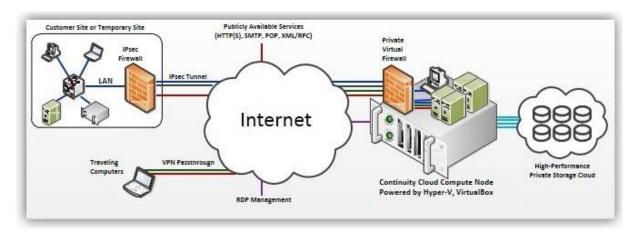
The eFolder Continuity Cloud allows fast recovery from partial site or entire site failures. In the event of a server failure, (or the failure of an entire site), a local eFolder BDR Appliance can first be used to easily, quickly, and transparently virtualize the failed server(s) onsite. If the BDR has been destroyed or is otherwise unavailable, the continuity cloud can be activated to bring the failed infrastructure back up. Powerful virtual routing and firewalling features provide easy and, in certain configurations, fully transparent access to virtualized servers.

To begin using the eFolder Continuity Cloud:

- Submit a critical (highest priority) support ticket, including details of the resources needed (such as the number of servers, total RAM, disk space, and so forth) and the account(s) containing the data for the computers to be virtualized.
- eFolder will respond to these requests 24/7/365 and will provision one or more Continuity
 Cloud compute nodes for your dedicated use. Once provisioned, you will have full selfmanagement capabilities of the resources on the compute node and will be self-sufficient.



Technical Overview (continued)



- Once you agree to the acceptable use terms, you are given RDP access to the compute node(s).
- After logging in to a compute node, you will have full access to self-configure the virtual router and virtual firewall, allowing the configuration of any needed VPNs and NAT/PAT policies.
- If you choose to virtualize a bare-metal backup image directly without any conversion process (only available for certain types of bare-metal backups, or where "hot standby" VMs have already been created automatically
- The VMs can be brought up with a variety of networking configurations.
 - A test mode is available where the VMs are fully isolated on a virtual network.
 - More common is the mode where VMs are bridged to a VLAN that is dedicated to and connected to all of a partner's provisioned compute nodes.
 - The virtual router and firewall control the flow of traffic to and from this internal, private
 VLAN to a VLAN dedicated to the external connectivity of the virtual network.
 - All compute nodes are assigned several public IPv4 addresses (IPs are provisioned as requested, up to one public IP address per VM that needs to be virtualized).
 - All traffic to these public IPs are automatically routed to the external VLAN dedicated to the partner's compute node(s).





Technical Overview (continued)

- The virtual router/firewall has full control over the entire network—virtualized servers can be exposed in a DMZ, NAT/PAT can be used, IPsec VPN tunnels can be configured, and VPN connections can be passed through to virtualized servers.
- IPsec VPN tunnels are especially powerful for a partial-site failure situation where the customer site's firewall is still operational and can form a VPN tunnel to the virtual router/firewall running in the cloud. In this situation, the internal IP addresses of the virtualized servers in the cloud can be the same as they were before, and thus users can transparently use the virtualized servers running in the cloud without any configuration changes. Additionally, any public services such as POP3 and OWA can be exposed through NAT/PAT policy rules—Partners then update the DNS records of their servers to point to the new public IP addresses, and these public services then become available again, just as before.
- When the original servers are ready to be recovered, the virtualized servers can take
 incremental backups, which will update the backed up data with the normal process. You can
 then download and restore these bare metal images or request a copy of the data on a USB
 drive or NAS device.
- Finally, you should submit a ticket to de-provision the cloud compute nodes, and the cloud compute nodes are then automatically wiped clean back to their original state so that they are ready for use by the next Partner.





Exporting a Protected system

1. Log in to your Replibit Vault with the customer account and navigate to the **Protected Systems** menu.



2. Find the Protected System that is needed to be recovered and click on **Details**.







3. Locate the Shapshot that you need to recover and click on Export.



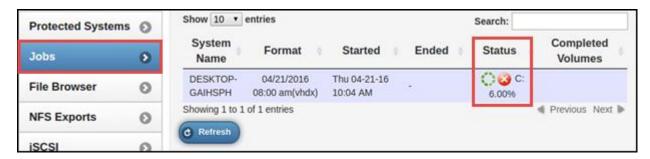
4. Click on the VHDX option and then Start.







5. To monitor the Conversion process, select the *Jobs menu* under the Conversion tab.



When your conversion job is completed, the following window will display:



While you are waiting on the Conversion job, connect to the CC Node using the credentials that were sent to you and start setting up the network and firewall.





Virtual Firewall and Router Configuration

While the restore is running, configure the firewall on the Continuity Cloud node.

For help with this, please refer to the document "Continuity Cloud Virtual Firewall.pdf" using the link below. After the firewall policies are configured, you can resume with the next step.

https://secure.efoldering.com/efolder/files/ContinuityCloud/eFolder Continuity Cloud Virtual Firewall Guide.pdf





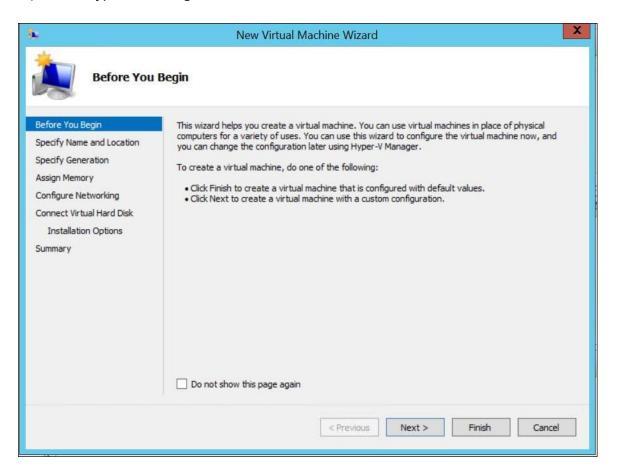
Manage and Start VMs

Now that your virtual router and firewall policies and configured, you are ready to start your VMs.

Use the Hyper-V console to connect to the VMs and log in and reconfigure the network to use the proper LAN IP address.

Important Note: If you are virtualizing an SBS server or domain controller, the first time the server boots, when the Windows boot menu appears, you should immediately press F8 and choose Active Directory Restore Mode or Directory Services Restore Mode. After the server comes up, log in as the local Administrator (.\Administrator) using the Directory Services Restore Mode password; then, edit the settings for the network adapter to reset the static IP and the DNS server address. For SBS servers, the DNS server address will be the same as the static IP (or 127.0.0.1).

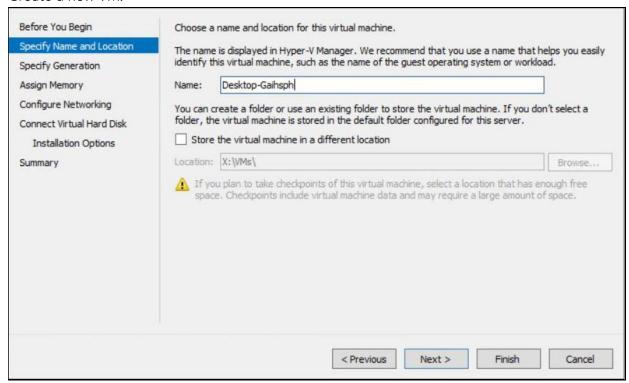
1. Open the Hyper-V Management console.



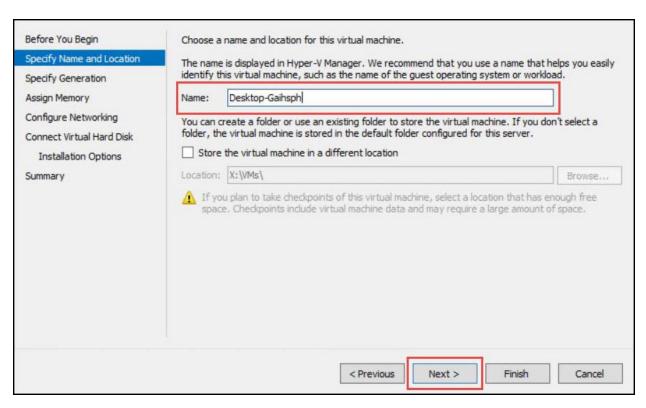




2. Create a new VM.



3. Enter name of system and click Next.

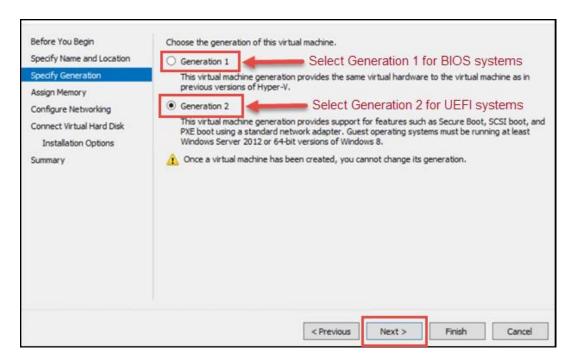




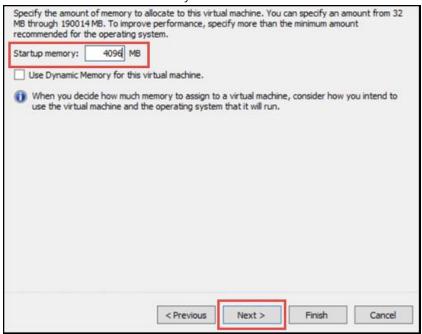


- 4. Select the radio button that corresponds to the generation of your virtual machine:
 - For BIOS systems, choose Generation 1.
 - For UEFI systems, choose Generation 2.

Then select Next.



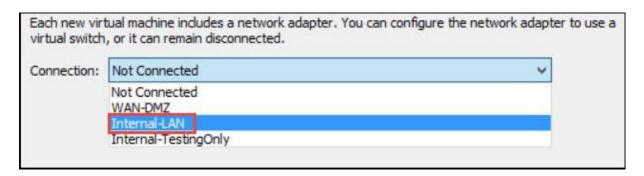
5. Enter the amount of memory and click **Next**.



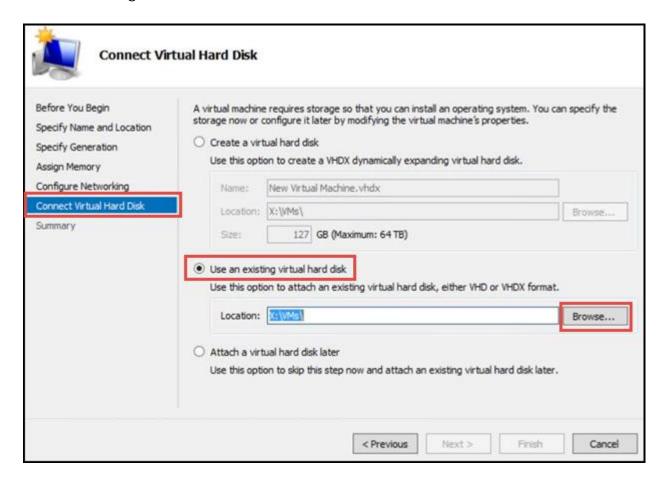




6. Select the network connection and click Next.



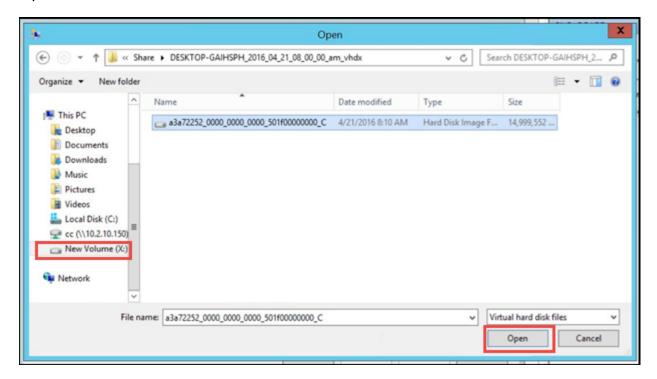
7. Pick Use existing virtual hard disk and then click Browse



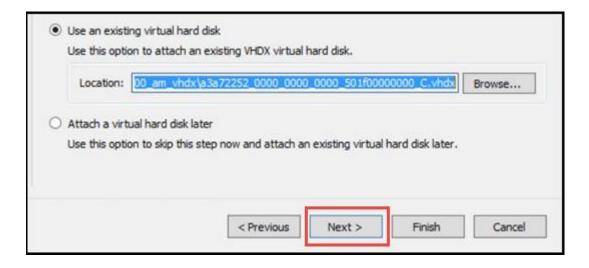




8. Navigate to <u>x:\share</u> to find the exported hard drive folder, highlight the drive, and click Open.



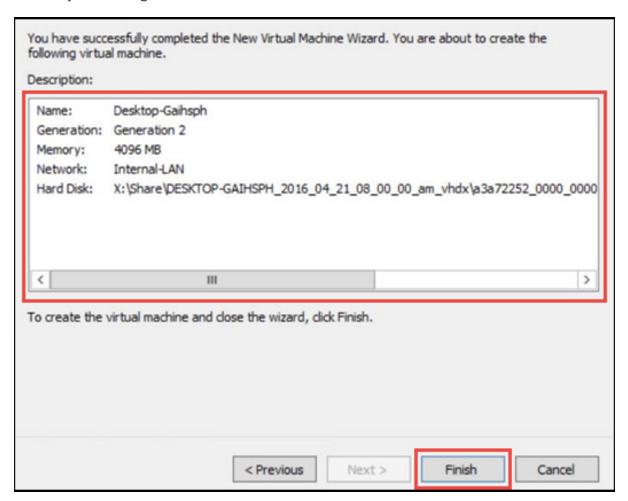
9. Click Next.







10. Verify the settings and select Finish.

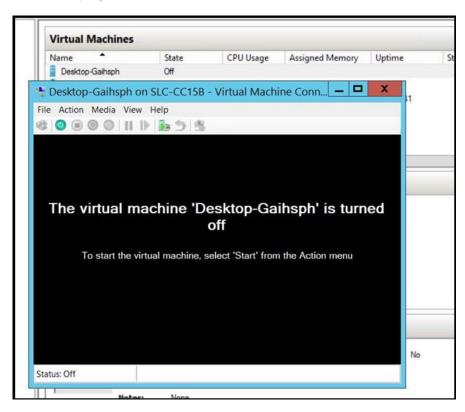


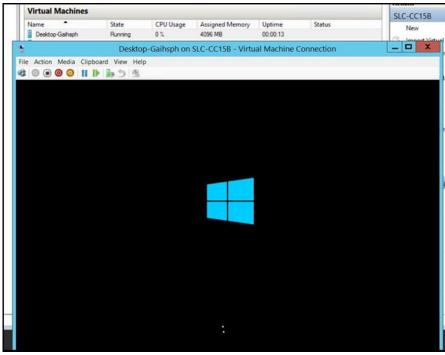




The VM is ready to boot. If you need to add additional virtual drives or any other system setting changes. right click on the VM and click Settings.

To power on the VM, double click the **VM** and select the **power** button. The following windows should display:









Cleaning Up

- When you have finished with the eFolder Continuity Cloud, the best practice is to delete any of your data off of the X: drive (using Windows Explorer).
- eFolder will reinitialize the underlying RAID volumes when the node is reprovisioned, zeroing out all data on the volume.
- For especially sensitive data, you may want to securely erase all of the free space on the drive in a way that adheres to DoD standards.
 - To do this, clear the recycle bin; then, open a command prompt and run the command "sdelete -c X:"—this will more securely erase any files you have deleted.
 - Running sdelete may take 24-48 hours, so you should only run it if required by your security procedures.
- To ensure that you are no longer billed for the eFolder Continuity Cloud service, you submit a ticket indicating that you are finished with the node(s) that have been provisioned for you and please notify eFolder that you have done so.
- Once you have submitted this ticket to eFolder indicating that you are finished with the node, you will no longer have access to the machine. eFolder will wipe and reimage the machine from bare metal, so please make sure you have any data that you need before submitting a ticket indicating that you are finished with the nodes.