

Quest DL Appliance Family

DL Appliance Configuration Wizard Setup Guide

June, 2017

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Introduction

The DL purpose built backup appliances are complete turnkey solutions that contain everything to protect both physical and virtual environments. A key DL appliance design tenant is simplicity – to deploy, configure manage and grow.

This document details all four phases of DL Application Configuration Wizard: 1) Appliance Configuration; 2) Machine protection; 3) Replication and 4) Virtual Machine Exports/Standby. When the approximately 20 minute wizard is finished, one is able to protect physical and virtual environments with most all of the DL appliance features and capabilities enabled.

DL Appliance Deployment Process:

1. Unbox the DL appliance and rack or place the unit in its proper location. Directly connect the Keyboard/Video/Mouse (KVM) to the appliance or connect the appliance into a KVM switching system. Remote configuration is possible using the virtual console technology of iDRAC built into the DL appliances. The iDRAC technology greatly reduces the need to physically access the DL appliances.
2. When the DL appliance is powered on, define the local password for the appliance, and then login.
3. The DL Appliance Configuration Wizard will automatically launch and configuration of the appliance, its backup features and policies begins.

Appliance Configuration

1. Determine what network settings will be used and input this information into the wizard.

Enable NIC Teaming: The DL setup wizard will configure NIC teaming using Microsoft Windows teaming technology if selected. Teaming can also be applied using Broadcom and Intel NIC teaming tools. This method requires that 'Enable NIC Teaming' option is not chosen, and Broadcom's BACS or Intel ANS (Advanced Network Services) software is installed for NIC teaming configuration.

DL1000 Appliance Configuration Wizard

Navigation: Welcome ✓, License Agreement ✓, **Network Settings**, IPv4, Registration, Host Settings, Alerts and Monitoring, Access and Management, Storage Provisioning, Update Options

Network Settings

Select the network settings that are appropriate for your environment.

IPv4 Interface

- ☐ Obtain an IPv4 automatically
- ☒ Set manually IPv4 address

☐ Enable an IPv6 interface

- ☒ Obtain an IPv6 automatically
- ☐ Set manually IPv6 address

☐ Enable Nic teaming

Windows Nic teaming (also known as load balancing and failover) lets you team multiple network adapters for bandwidth aggregation and traffic failover. This helps maintain connectivity in the event of a network component failure.

Buttons: Back, Next, Cancel

DL Appliance Configuration Wizard

Navigation: Welcome ✓, License Agreement ✓, Network Settings ✓, **IPv4**, Registration, Host Settings, Alerts and Monitoring, Access and Management, Storage Provisioning, Update Options

IPv4

Configure your IPv4 settings below.

Interface Name	IP Address	Subnet Mask	Gateway	Primary DNS
Nic1:	10.23.20.101	255.255.0.0	10.23.0.1	10.9.78.14
Nic2:				

Buttons: Back, Next, Cancel

- DL appliance's are delivered with a 30 day trial license that enable the user to begin most of the configuration, until the fully purchased license is installed.

The 'Register now' option registers the license with the license portal located at [Quest Data Protection|Rapid Recovery License Portal](#) using the License Number that was sent to you. The license number and the email address in which you received your DL license are used to register the appliance.

If the DL appliance does not have internet access, select "Use trial license" and complete the wizard. Access the license portal to obtain and download a license to apply a license at a future time under the ...'Licensing' option in the Settings menu of the appliance Core Console.

DL Appliance Configuration Wizard

Welcome	✓
License Agreement	✓
Network Settings	✓
Registration	
Host Settings	
Alerts and Monitoring	
Access and Management	
Storage Provisioning	
Retention Policy	
Update Options	

Registration

Please register your Quest DL1000 appliance

☒ Register now

License number:

Email address:

☐ Use trial license

This trial license expires in 30 days. To continue using this product without interruption, register within that period.

3. Change the DL appliance hostname and optionally join it to an existing domain.

DL1000 Appliance Configuration Wizard

Welcome	✓
License Agreement	✓
Network Settings	✓
IPv4	✓
Registration	✓
Host Settings	
Alerts and Monitoring	
Access and Management	
Storage Provisioning	
Update Options	

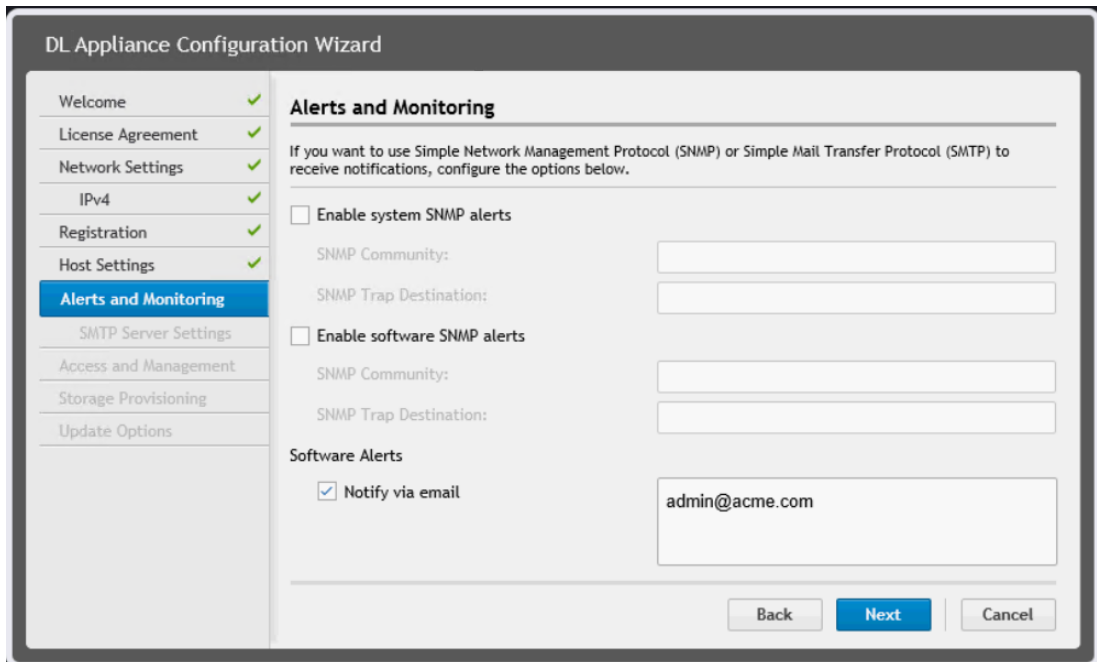
Host Settings

Your hostname appears below. If you want to change the hostname of the appliance, or have the appliance join a domain, configure the settings below. Changing these settings requires a reboot of the appliance.

Host Name:

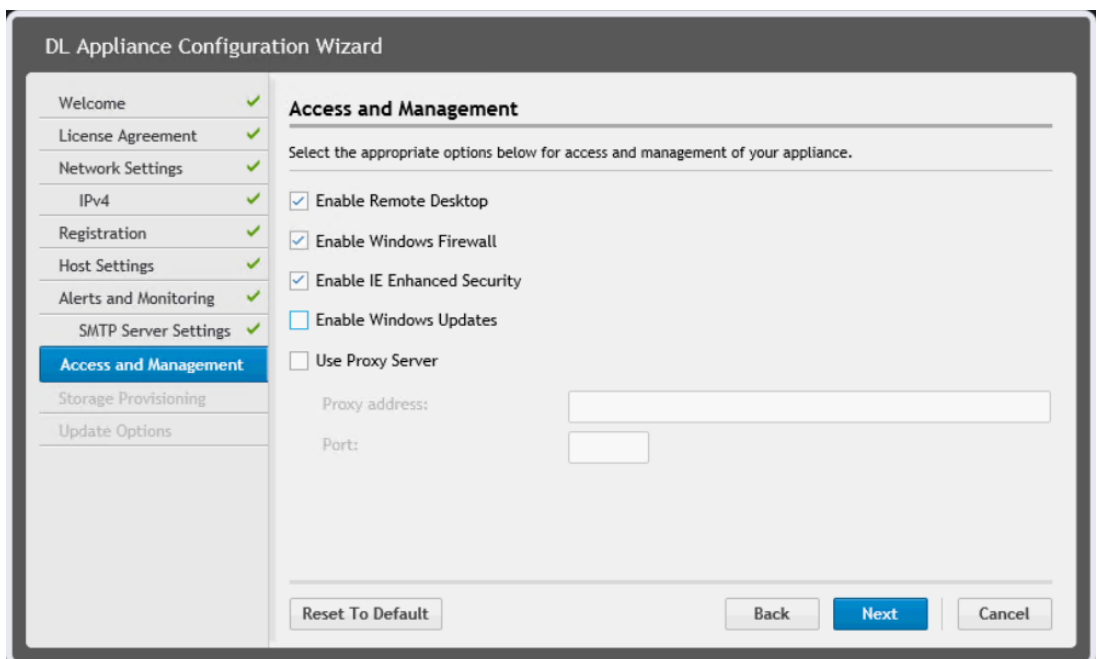
☐ Join this system to a domain

4. Optionally apply SNMP and email address information for the DL appliance to properly forward alerts and monitoring information.



The screenshot shows the 'DL Appliance Configuration Wizard' at the 'Alerts and Monitoring' step. The left sidebar lists steps from 'Welcome' to 'Update Options', with 'Alerts and Monitoring' highlighted. The main area has a title 'Alerts and Monitoring' and a subtitle 'If you want to use Simple Network Management Protocol (SNMP) or Simple Mail Transfer Protocol (SMTP) to receive notifications, configure the options below.' There are two sections: 'Enable system SNMP alerts' and 'Enable software SNMP alerts'. Each has fields for 'SNMP Community:' and 'SNMP Trap Destination:'. Below these is a 'Software Alerts' section with a checked 'Notify via email' checkbox and an email address field containing 'admin@acme.com'. At the bottom are 'Back', 'Next', and 'Cancel' buttons.

5. Enable the methods and settings that allow access the DL appliance. When selecting 'Enable Windows Firewall', the wizard adjusts firewall port settings according to the processes used by the DL appliance.



The screenshot shows the 'DL Appliance Configuration Wizard' at the 'Access and Management' step. The left sidebar lists steps from 'Welcome' to 'Update Options', with 'Access and Management' highlighted. The main area has a title 'Access and Management' and a subtitle 'Select the appropriate options below for access and management of your appliance.' There are several checkboxes: 'Enable Remote Desktop', 'Enable Windows Firewall', 'Enable IE Enhanced Security', 'Enable Windows Updates', and 'Use Proxy Server'. The 'Use Proxy Server' checkbox is unchecked, and it has fields for 'Proxy address:' and 'Port:'. At the bottom are 'Reset To Default', 'Back', 'Next', and 'Cancel' buttons.

6. The DL appliances are equipped with capacity for a number of things: 1) The backup repository; 2) archive storage; 3) Virtual Standby's and 4) Internal Repository expansion (with license). The Repository preserves current active backups of protected machines, while an archive preserves copies of backups that may be required to be preserved for long periods of time. Virtual Standby's are created

to run on the appliance using disk capacity separate from repository backup to ensure backup data is preserved and not overwritten. 'Allocate a portion of storage capacity for Virtual Standby, archives and other purposes' must be enabled for Virtual Standby and archive use. Estimate the capacity that will be used for each virtual standby and archives and ensure that a minimum of this aggregate capacity is entered. If 100% of this capacity is applied, internal repository capacity expansion will not be possible. If these capacities cannot be determined, use the recommended default setting of 80%.

The screenshot shows the 'Storage Provisioning' step of the DL Appliance Configuration Wizard. On the left, a sidebar lists various configuration steps: Welcome, License Agreement, Network Settings, Registration, Host Settings, Alerts and Monitoring, Access and Management, **Storage Provisioning** (highlighted), Retention Policy, and Update Options. The main area is titled 'Storage Provisioning' and contains the following fields and options:

- Select the following configuration options for your storage**
- Repository Name:** Repository 1
- Size:** 2972 GB
- ☒ Allocate a portion of your storage for Virtual Standby, archives, or other purposes.
- Percentage of available space:** A slider bar is shown with a value of 80% selected.
- Size:** 443.00 GB

At the bottom right, there are three buttons: 'Back', 'Next', and 'Cancel'.

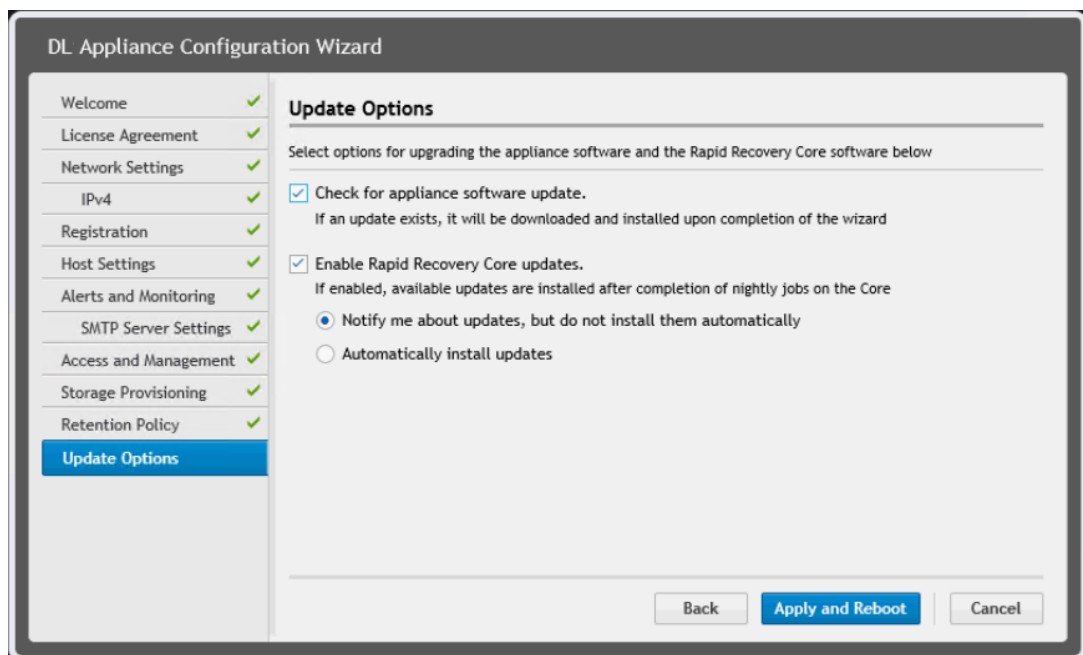
- The initial retention policy for machine backups are defined. Retention policy adjustments can be applied to individual machines in the Core Console after the wizard has completed. DL1300 appliances have a 180 day retention limitation and the DL4300 has no retention limit.

The screenshot shows the 'Retention Policy' step of the DL Appliance Configuration Wizard. On the left, the sidebar lists the same configuration steps as the previous screen, with **Retention Policy** highlighted. The main area is titled 'Retention Policy' and contains the following fields and options:

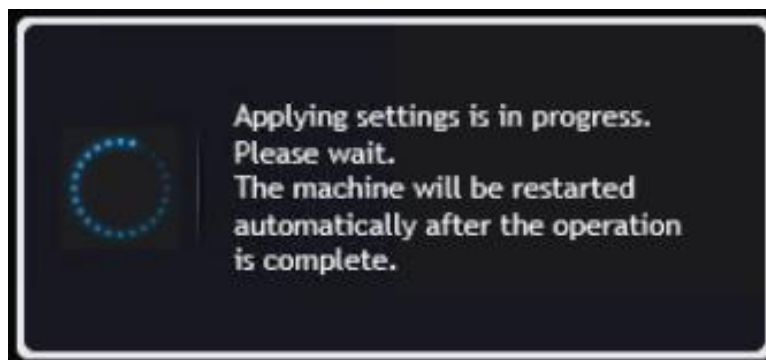
- The following options let you define the length of time backups of protected machines are stored in the repository and modify the rollout process of merging and deleting old backups.**
- Keep all recovery points for** 2 Days
- ☐ and then keep one recovery point per hour for 2 Days
- ☒ and then keep one recovery point per day for 2 Weeks
- ☒ and then keep one recovery point per week for 3 Weeks
- ☒ and then keep one recovery point per month for 1 Months
- ☐ and then keep one recovery point per year for 1 Years
- Resulting Retention Period**: A horizontal bar chart showing the retention period from 4/25/2017 to 2/20/2017, divided into four colored segments (green, blue, orange, purple).
- Reset To Default** button

At the bottom right, there are three buttons: 'Back', 'Next', and 'Cancel'.

8. Configure DL appliance automatic software updates



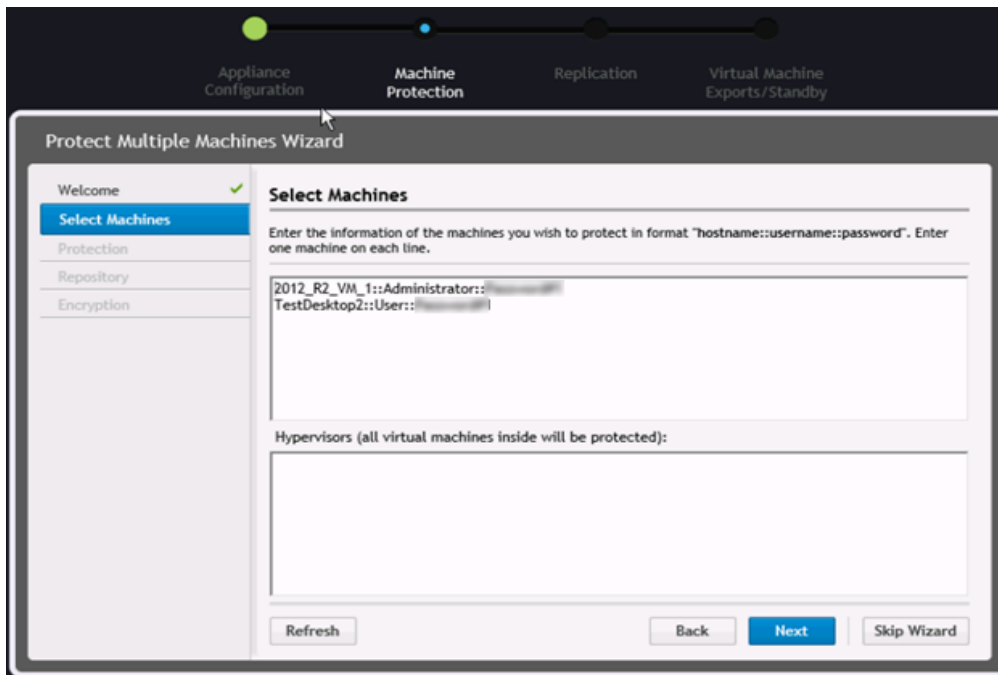
9. The appliance portion of the wizard is complete. The DL appliance will reboot if necessary, and proceed to the Machine Protection portion of the wizard.



Machine Protection

(Approximate time to complete: ~ 7 minutes)

4. Identify the physical and virtual assets to be protected. For agentless protection of virtual machines, identify the hypervisor information in the lower portion of the screen.



5. When custom protection is chosen, backup time and frequency can be defined.

Choose 'Periods' when multiple backups per day of protected machines is desired. Define the start and stop times when backup will be taken with a frequency defined by 'Every minutes'. If backups are desired outside of this window, enable 'Take snapshots for the rest of the time' using a different backup frequency.

Enable 'Daily protection time' when only one backup per day is desired at a specific time.

Select 'Initial Paused protection' to pause all backups until the wizard is completed. You will need to explicitly resume protecting using the Core Console.

Protect Multiple Machines Wizard

Welcome ✓
Select Machines ✓
Protection ✓
Schedule
Repository
Encryption

Protection Schedule

Set protection schedule. To use advanced scheduling options, select "Initially pause protection" to prevent backups from starting. When you complete the wizard, modify the schedule for each protected machine from the Summary tab, and then resume protection.

☒ Periods

☒ Weekdays (Mon-Fri)

From To Every: minutes

☐ Take snapshots for the rest of the time Every: minutes

☒ Weekends (Sat, Sun) Every: minutes

☐ Daily protection time

☐ Initially pause protection

Back Next Skip Wizard

6. The encryption configured in this step encrypts data as it is ingested into the core repository.

Protect Multiple Machines Wizard

Welcome ✓
Select Machines ✓
Protection ✓
Schedule ✓
Repository ✓
Encryption

Encryption

Configure received data encryption.

☒ Enable encryption

☐ Encrypt data using Core-based encryption with an existing key

☒ Encrypt data using Core-based encryption with a new key ⓘ

Name:

Description:

Passphrase:

Confirm passphrase:

Back Finish Skip Wizard

Replication

(Approximate time to complete: ~ 3 minutes)

- DL appliances can be optionally configured to replicate all or select number of protected machines to remote locations (MSP or in-house locations). If no replication needs to be configured at this time, select 'Skip Wizard' to jump to the next portion of the wizard.

The screenshot shows the 'Replication Wizard' interface. At the top, there is a progress bar with four steps: 'Appliance Configuration', 'Machine Protection', 'Replication' (which is the current step and highlighted with a blue dot), and 'Virtual Machine Exports/Standby'. Below the progress bar, the 'Replication Wizard' window is open. It has a left sidebar with 'Target Core' selected, and below it, 'Request' and 'Protected Machines'. The main area is titled 'Target Core' and contains the following text: 'Specify an existing target Core, or connect to a new Core to which you want to replicate recovery points from protected machines.' There are two radio button options. The first option, 'I have a subscription to a third party providing off-site backup and disaster recovery services', is selected. It has a 'Host name' text box and a 'Port' dropdown menu set to '8006'. The second option, 'I have my own target Core', is unselected. It has a 'Host name' text box, a 'Port' dropdown menu set to '8006', a 'User name' text box, and a 'Password' text box. At the bottom right of the wizard are two buttons: 'Next' (in blue) and 'Skip Wizard' (in grey).

Virtual Machine Exports/Virtual Standby

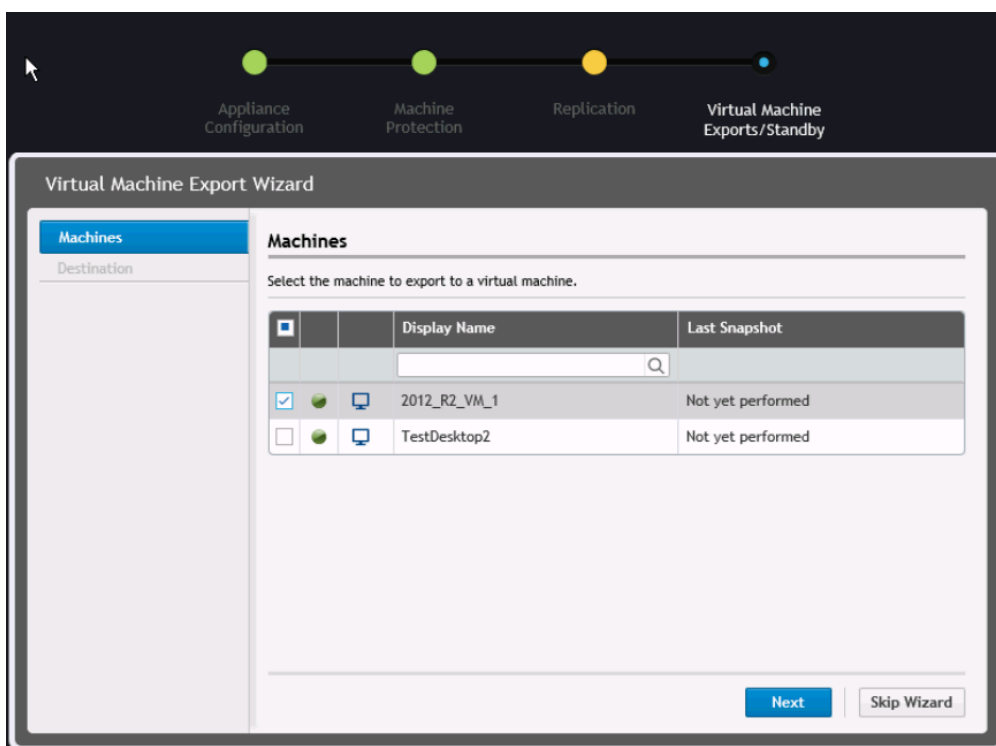
(Approximate time to complete: ~ 4 minutes)

This final step of the wizard configures Virtual Machine Exports & Virtual Standby's. A Virtual Standby is a backup copy of a protected machine that can be near immediately started in the event of corruption. DL4300 and most DL1300 appliances can standup Virtual Standbys on the appliance itself. Because of this ability, the DL Series appliances can be referred to as "Disaster Recovery in a Box".

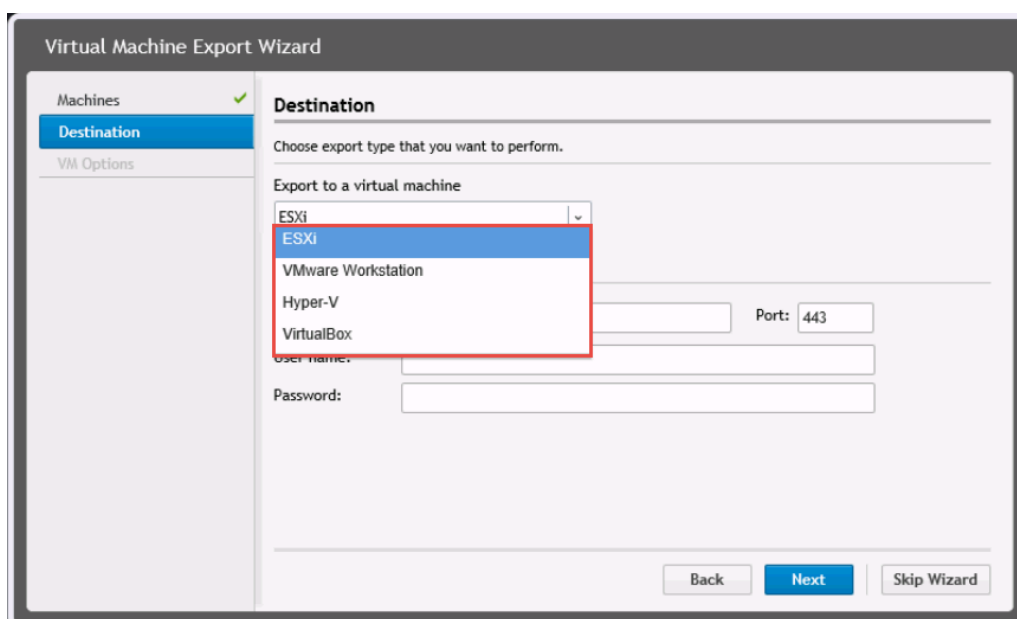
This step also allows for virtual machine exports to be defined. Here, copies of protected machine backups are exported to external hypervisors to be quickly stood up in the event failures or issues. The

steps following in this document outline the configuration of Virtual Standby's that are stood up on the DL appliance itself.

8. Select the virtual or physical machines that will be configured to standup on the DL appliance.



9. Besides creating Virtual Standby's on the appliance itself, the DL appliances can export protected machines backups to external hypervisors such as ESXi, VMware Workstation, Hyper-V and Virtual Box. This functionality can also assist cutomers if they more from one hypervisor to another (example – move a virtual machine from ESXi to Hyper-V).



10. To Configure Virtual Standby's on the appliance itself, select Hyper-V and Use local machine.

The screenshot shows the 'Virtual Machine Export Wizard' with the 'Destination' step selected in the left sidebar. The main area is titled 'Destination' and contains the following elements:

- A message: 'Choose export type that you want to perform.'
- A section 'Export to a virtual machine' with a dropdown menu set to 'Hyper-V'.
- A message: 'Click Next to connect to the Hyper-V server'.
- Two radio buttons: 'Use local machine' (selected) and 'Remote host'.
- Fields for 'Hyper-V host name:', 'User name:', and 'Password:'.
- A 'Desired port' field with the value '8010'.
- Buttons at the bottom: 'Back', 'Next' (highlighted in blue), and 'Skip Wizard'.

11. Select appropriate Virtual Machine options.

The screenshot shows the 'Virtual Machine Export Wizard' with the 'Virtual Machine Options' step selected in the left sidebar. The main area is titled 'Virtual Machine Options' and contains the following elements:

- A message: 'Select settings for the new virtual machine'.
- A yellow warning box with an exclamation mark icon: 'Hyper-V Generation 1 option supports only BIOS based Agents, for the EFI based Agents, please configure Virtual Standby using the Core Console with the Generation 2 option selected.'
- A section 'Available volumes:' with a list containing 'E:\'.
- A 'VM location:' field with the value 'E:\'.
- 'Generation:' radio buttons: 'Generation 1' (selected) and 'Generation 2'.
- 'Disk format:' radio buttons: 'VHDX' (selected) and 'VHD'.
- A checkbox for 'Secure boot' which is unchecked.
- Buttons at the bottom: 'Back', 'Next' (highlighted in blue), and 'Skip Wizard'.

12. Add Network Adapters for the Virtual Standby's. When the wizard is completed, create a virtual switch in the appliances Hyper-V manager and connect this NIC.

Additional Information

Additional information is available from the following:

- [Quest DL Appliance Website](#)
- [iDRAC8 Enterprise \(DL1300 & DL4300\)](#)
- [Dell Open Manage Server Administrator](#)

Contacting Quest

For sales or other inquiries, visit <https://www.quest.com/company/contact-us.aspx> or call +1-949-754-8000.

Technical support resources

Technical support is available to Quest customers with a valid maintenance contract and customers who have trial versions. You can access the Quest Support Portal at <https://support.quest.com>.

The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. The Support Portal enables you to:

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- Chat with support engineers online
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