

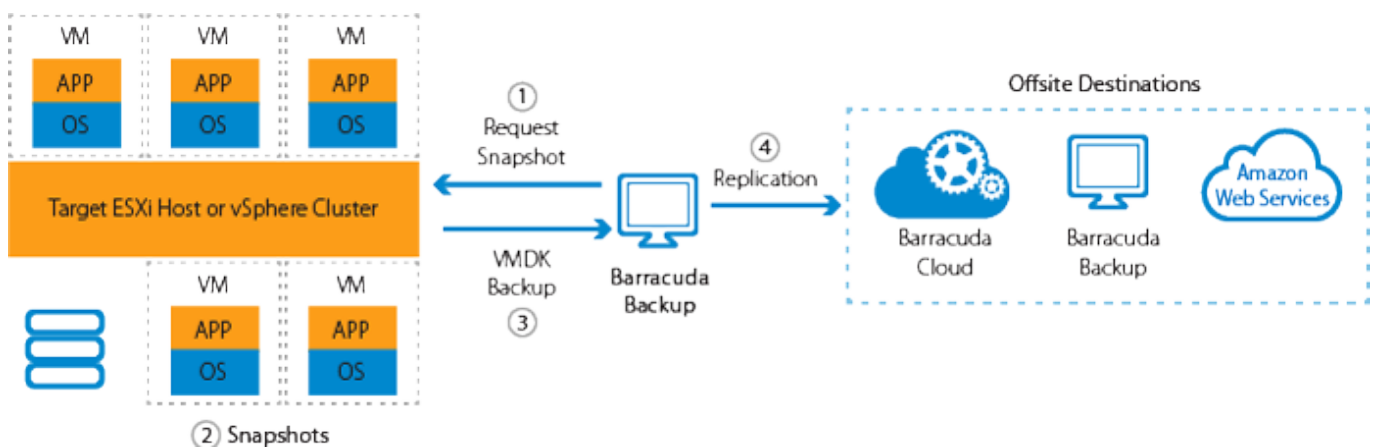
VMware vSphere Support

<https://campus.barracuda.com/doc/79463733/>

Hypervisor-level snapshots of each guest virtual machine (VM). Barracuda Backup uses the VMware vStorage APIs for Data Protection (VADP) included with all licensed vSphere editions for all backup and recovery tasks. Barracuda Backup and Barracuda Backup Vx leverage VMware Changed Block Tracking (CBT) to perform incremental forever backups.

In addition to providing protection for VMs running on VMware, the Barracuda Backup Vx can be deployed to, and run on, VMware. The Backup Vx image is imported into vSphere where it can be configured like any other VM.

Free ESXi does not include the VMware VADP and therefore cannot be protected using hypervisor-level snapshots. To protect free ESXi, the Barracuda Backup Agent must be installed in each guest VM and each VM is backed up at the guest level. Barracuda Backup Vx can be deployed to and run on the free version of ESXi, however, the same backup rules apply.



Protect Nutanix Clusters Running VMware vSphere

1. Log into the Barracuda Backup web interface, and go to the **Backup > Sources** page.
2. Click **Add a Computer**.
3. Provide a **Computer description**. This is used to identify the system within Barracuda Backup.
4. Specify the **Computer name**. This can be either the Nutanix vSphere cluster IP address or the Fully Qualified Domain Name (FQDN).
5. From the drop-down menu, select **VMware**.
6. Enter a **username** and **password** to connect to the Nutanix vSphere cluster, and click **Test Credentials**.

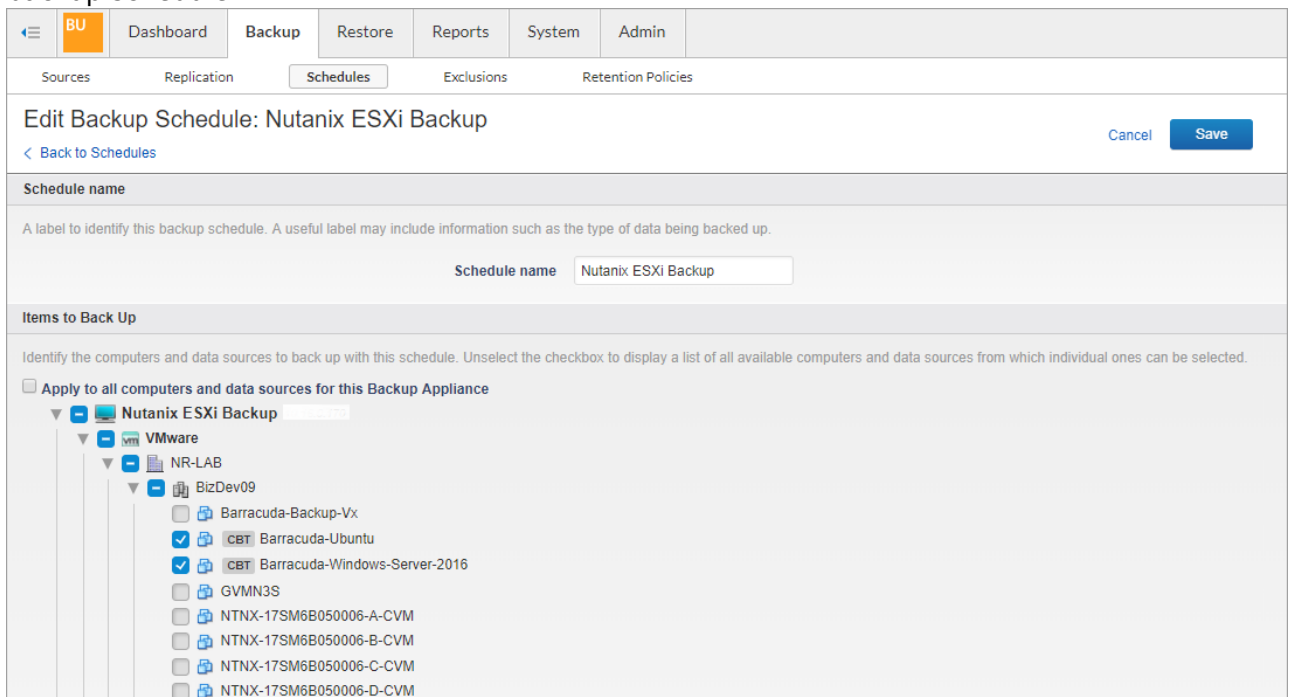
As a best practice, use a unique account for this integration point and grant it the least level of

privileges required, coordinating with the system administrator. This account requires administrative privileges to the Nutanix vSphere cluster. For additional information, see [Security for Integrating with Other Systems - Best Practices](#).

7. If you can successfully connect to the Nutanix vSphere cluster, click **Save**.

If you are unable to connect using the supplied credentials, you may need to use another account or there may be connection issues between the Barracuda Backup device and the Nutanix vSphere cluster.

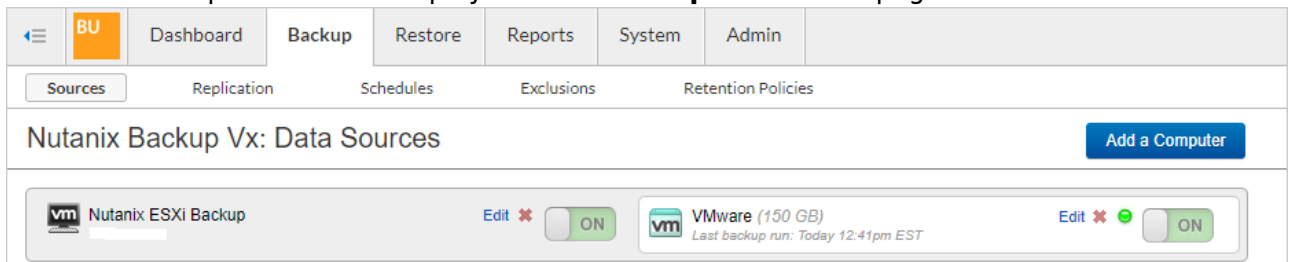
8. On the **Schedule** page, add this source to a new schedule or create a new schedule.
9. Configure your replication, CBT, and Snapshot options, and click **Save**.
10. On the **Schedules** page, select which datacenters, hosts, or VMs are to be included in the backup schedule:



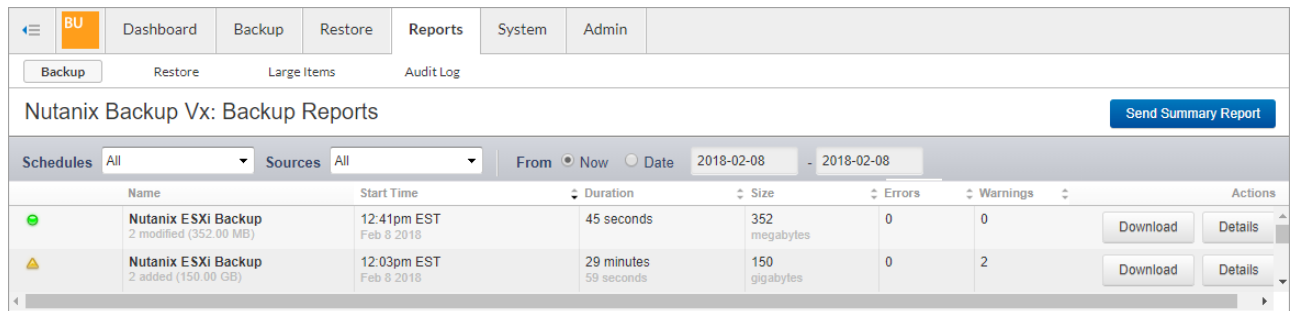
11. Specify the days that the backup schedule is to run, and specify the start time.
12. Click **Save** when you are finished setting up the backup schedule.



Multiple schedules can be configured for the same source and can run at different time and day intervals.

13. The Nutanix vSphere cluster displays on the **Backup > Sources** page:



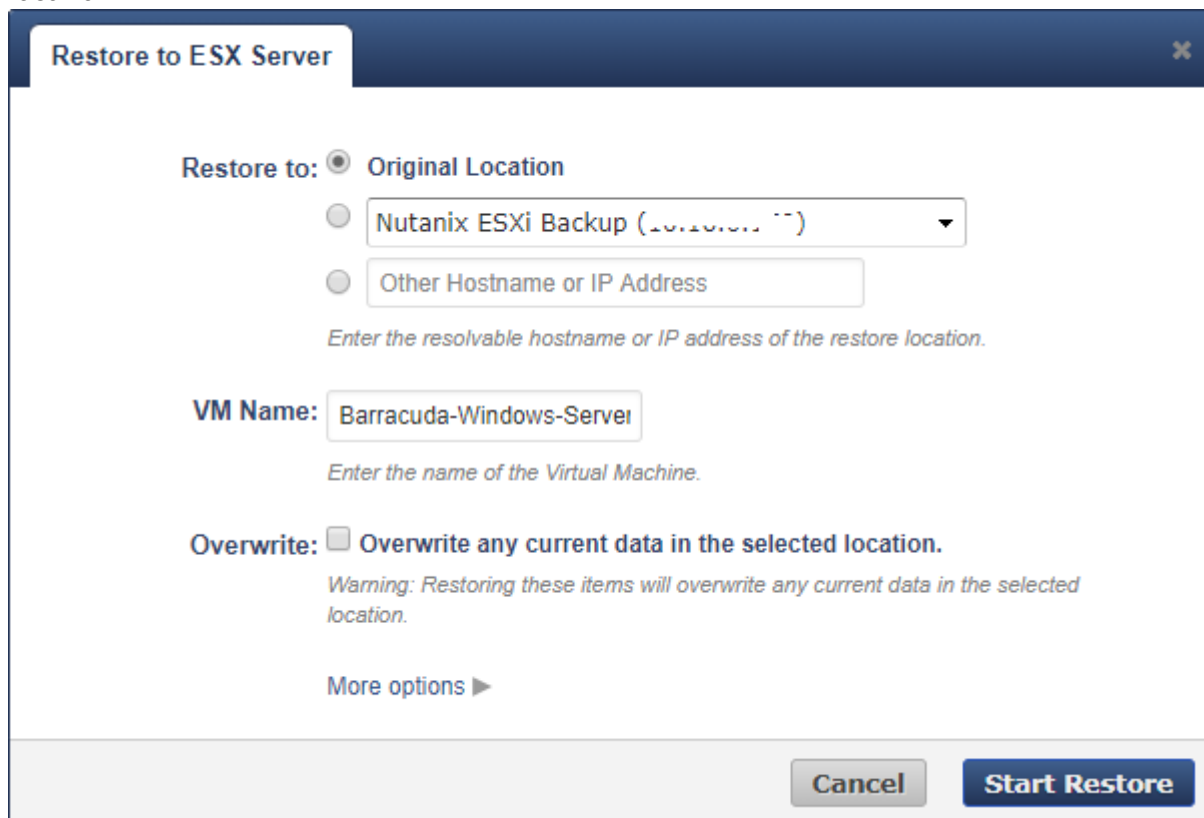
14. To run a backup manually, go to the **Backup > Schedules** page, and click **Run Backup Now** next to the desired schedule.
15. To view the progress of a running backup job, go to the **Reports > Backup** page:



| Name | Start Time | Duration | Size | Errors | Warnings | Actions |
|--|---------------------------|--------------------------|---------------|--------|----------|--|
|  Nutanix ESXi Backup 2 modified (352.00 MB) | 12:41pm EST Feb 8 2018 | 45 seconds | 352 megabytes | 0 | 0 | Download Details |
|  Nutanix ESXi Backup 2 added (150.00 GB) | 12:03pm EST Feb 8 2018 | 29 minutes 59 seconds | 150 gigabytes | 0 | 2 | Download Details |

Recover VMware vSphere Data, Applications, and Virtual Machines

Barracuda Backup provides several options for restoring data, applications, and VMs originating from VMware vSphere. Complete VM, as well as granular file and folder restoration can be initiated from the **Restore > Restore Browser** page. From the Restore Browser, select the Nutanix vSphere cluster data source and navigate down to the VM. From there, click the **Restore** link next to a VM to launch the VM restore dialog. A VM can be restored to both the original location and an alternate location:



Restore to ESX Server

Restore to: ☒ **Original Location**
☐ Nutanix ESXi Backup (2018-02-08 12:41:00)
☐ Other Hostname or IP Address
Enter the resolvable hostname or IP address of the restore location.

VM Name:
Enter the name of the Virtual Machine.

Overwrite: ☐ **Overwrite any current data in the selected location.**
Warning: Restoring these items will overwrite any current data in the selected location.

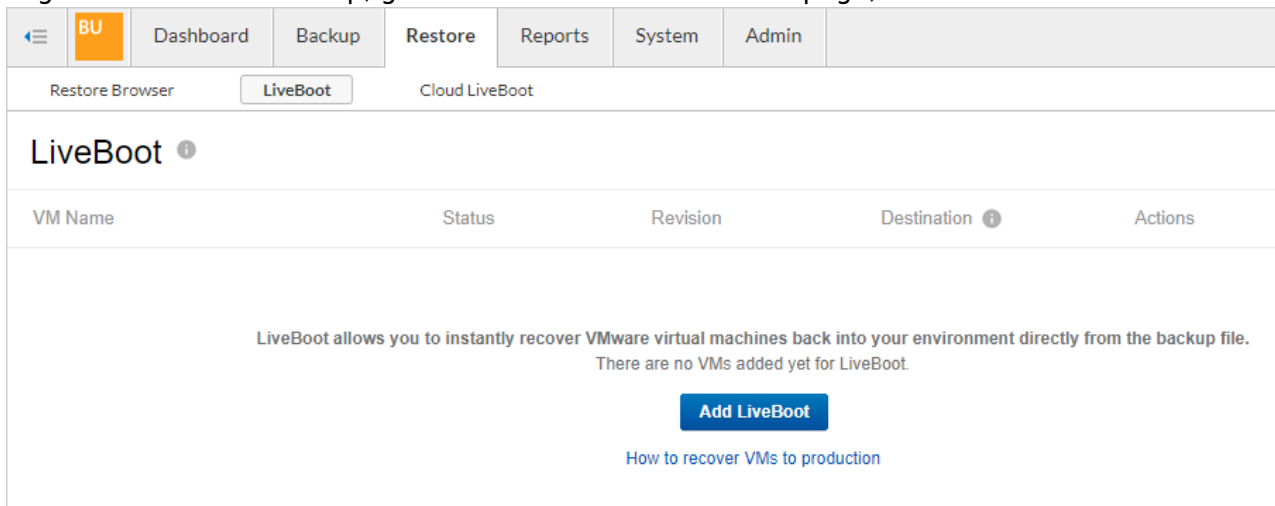
[More options](#)

Click on the name of a VM to browse inside of that VM image. From there, you can download or recover any file or folder.

To perform VMware VM instant recovery, known as Barracuda LiveBoot, go to the **Restore >**

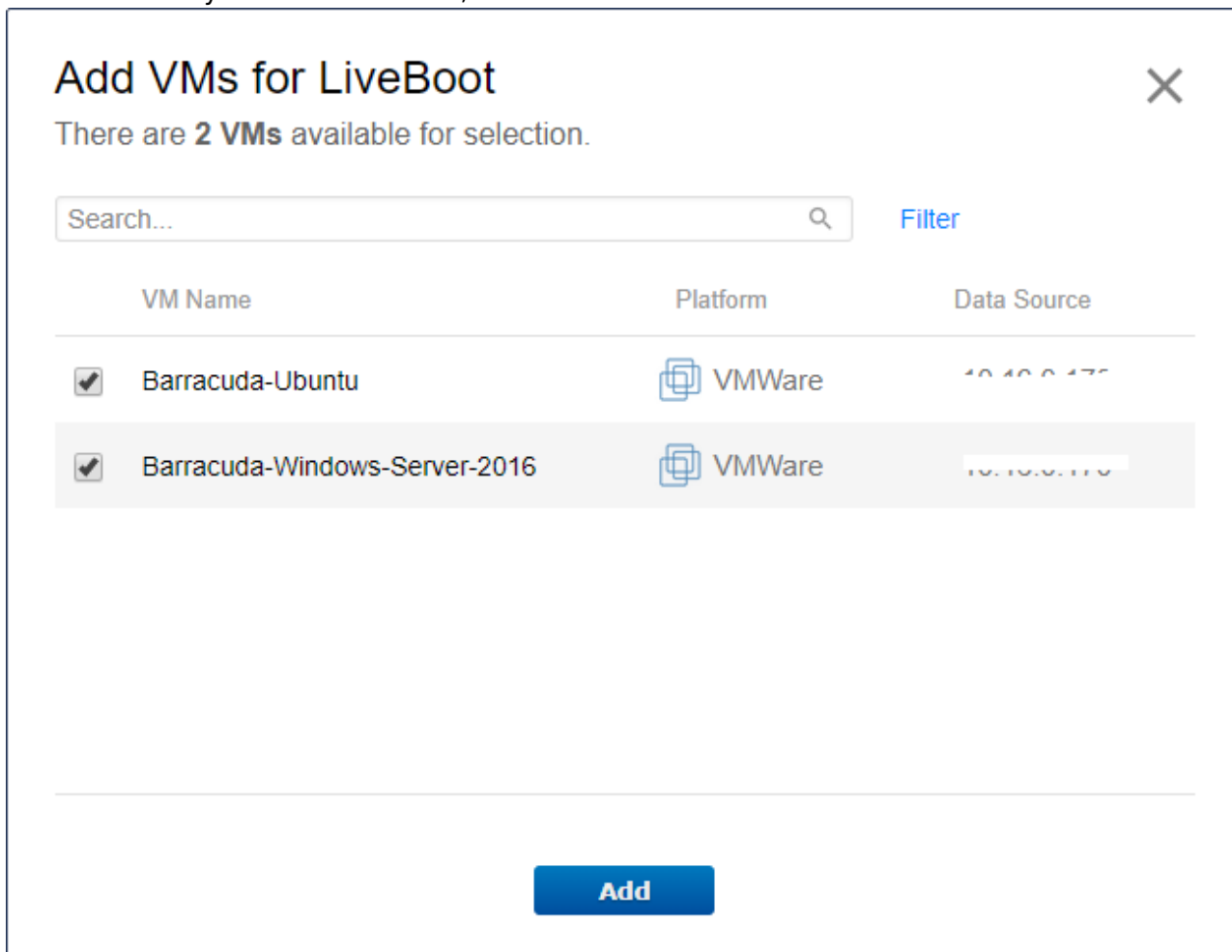
LiveBoot page:

1. Log into Barracuda Backup, go to the **Restore > LiveBoot** page, click **Add LiveBoot**:





The screenshot shows the Barracuda Backup interface. The top navigation bar includes 'BU', 'Dashboard', 'Backup', 'Restore', 'Reports', 'System', and 'Admin'. Below this, there are tabs for 'Restore Browser', 'LiveBoot', and 'Cloud LiveBoot'. The 'LiveBoot' tab is active, displaying the title 'LiveBoot' with an information icon. Below the title is a table with columns: 'VM Name', 'Status', 'Revision', 'Destination', and 'Actions'. The table is currently empty. Below the table, there is a message: 'LiveBoot allows you to instantly recover VMware virtual machines back into your environment directly from the backup file. There are no VMs added yet for LiveBoot.' Below this message is a blue button labeled 'Add LiveBoot' and a link 'How to recover VMs to production'.

2. Select the VMs you want to recover, and click **Add**:

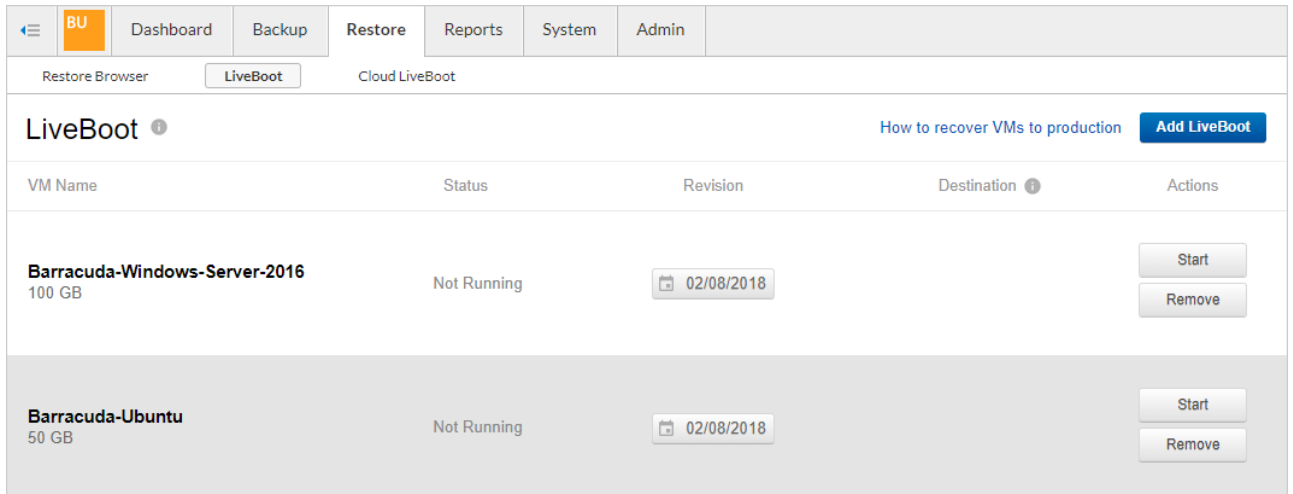


The screenshot shows a modal dialog titled 'Add VMs for LiveBoot' with a close button (X) in the top right corner. Below the title, it says 'There are 2 VMs available for selection.' There is a search bar with the placeholder text 'Search...' and a magnifying glass icon. To the right of the search bar is a 'Filter' link. Below the search bar is a table with columns: 'VM Name', 'Platform', and 'Data Source'. The table contains two rows of VMs, both of which are selected with checkboxes.

| VM Name | Platform | Data Source |
|---|--|-------------|
| <input checked="" type="checkbox"/> Barracuda-Ubuntu |  VMWare | 10.10.0.175 |
| <input checked="" type="checkbox"/> Barracuda-Windows-Server-2016 |  VMWare | 10.10.0.175 |

At the bottom of the dialog is a blue button labeled 'Add'.

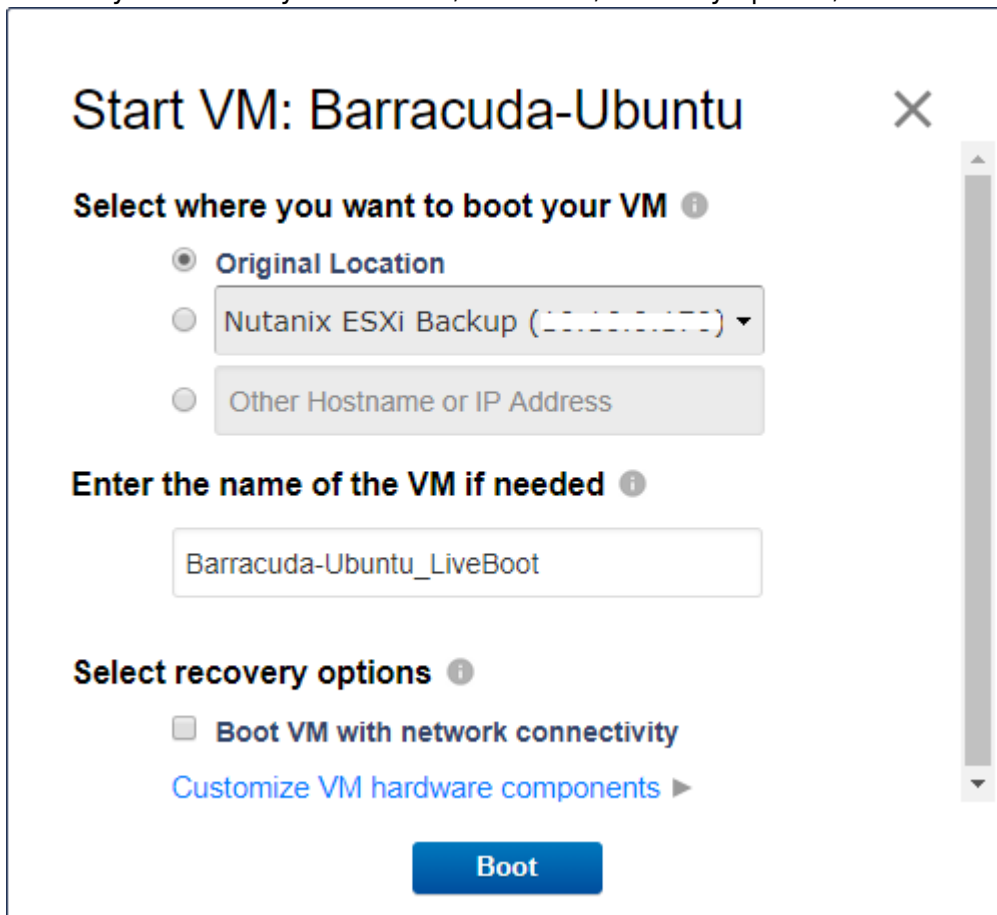
3. To start the VM instant recovery process, click **Start** to launch the VM restore dialog:



The screenshot shows the Barracuda Backup web interface. The top navigation bar includes links for Dashboard, Backup, Restore, Reports, System, and Admin. Below this, there are tabs for Restore Browser, LiveBoot, and Cloud LiveBoot. The main section is titled 'LiveBoot' and contains a table of VMs. The table has columns for VM Name, Status, Revision, Destination, and Actions. Two VMs are listed: 'Barracuda-Windows-Server-2016' (100 GB, Not Running, Revision 02/08/2018) and 'Barracuda-Ubuntu' (50 GB, Not Running, Revision 02/08/2018). Each VM has 'Start' and 'Remove' buttons. A 'How to recover VMs to production' link and an 'Add LiveBoot' button are also present.

| VM Name | Status | Revision | Destination | Actions |
|---|-------------|------------|-------------|-----------------|
| Barracuda-Windows-Server-2016 100 GB | Not Running | 02/08/2018 | | Start Remove |
| Barracuda-Ubuntu 50 GB | Not Running | 02/08/2018 | | Start Remove |

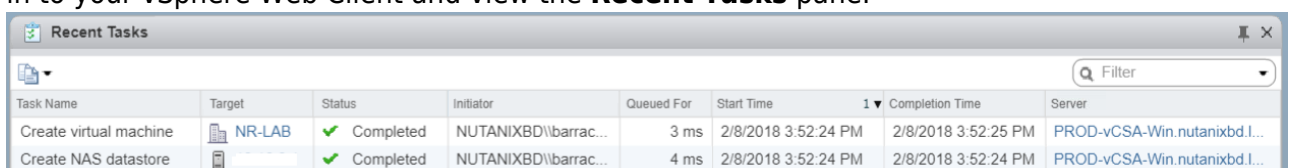
4. Choose your recovery destination, VM name, recovery options, and click **Boot**:



The screenshot shows a 'Start VM: Barracuda-Ubuntu' dialog box. It has a close button (X) in the top right corner. The dialog contains the following sections:

- Select where you want to boot your VM**: Three radio buttons are present. The first, 'Original Location', is selected. The second is 'Nutanix ESXi Backup (-----)' with a dropdown arrow. The third is 'Other Hostname or IP Address'.
- Enter the name of the VM if needed**: A text input field containing 'Barracuda-Ubuntu_LiveBoot'.
- Select recovery options**: A checkbox for 'Boot VM with network connectivity' is unchecked. Below it is a link 'Customize VM hardware components' with a right-pointing arrow.
- A large blue 'Boot' button is at the bottom.

5. The Barracuda Backup user interface provides you with basic statuses of **Not Running**, **Running**, **Failed**, and **Stopped**. To view more details about the VM instant recovery status, log in to your vSphere Web Client and view the **Recent Tasks** pane:

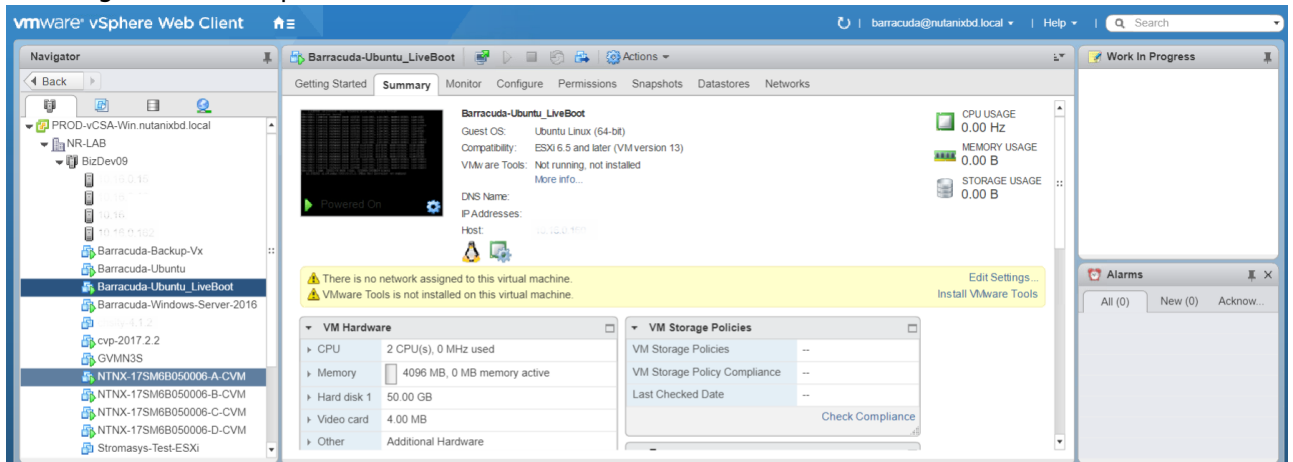


The screenshot shows the 'Recent Tasks' pane in the vSphere Web Client. It displays a table of tasks with columns: Task Name, Target, Status, Initiator, Queued For, Start Time, Completion Time, and Server. Two tasks are listed, both with a status of 'Completed'.

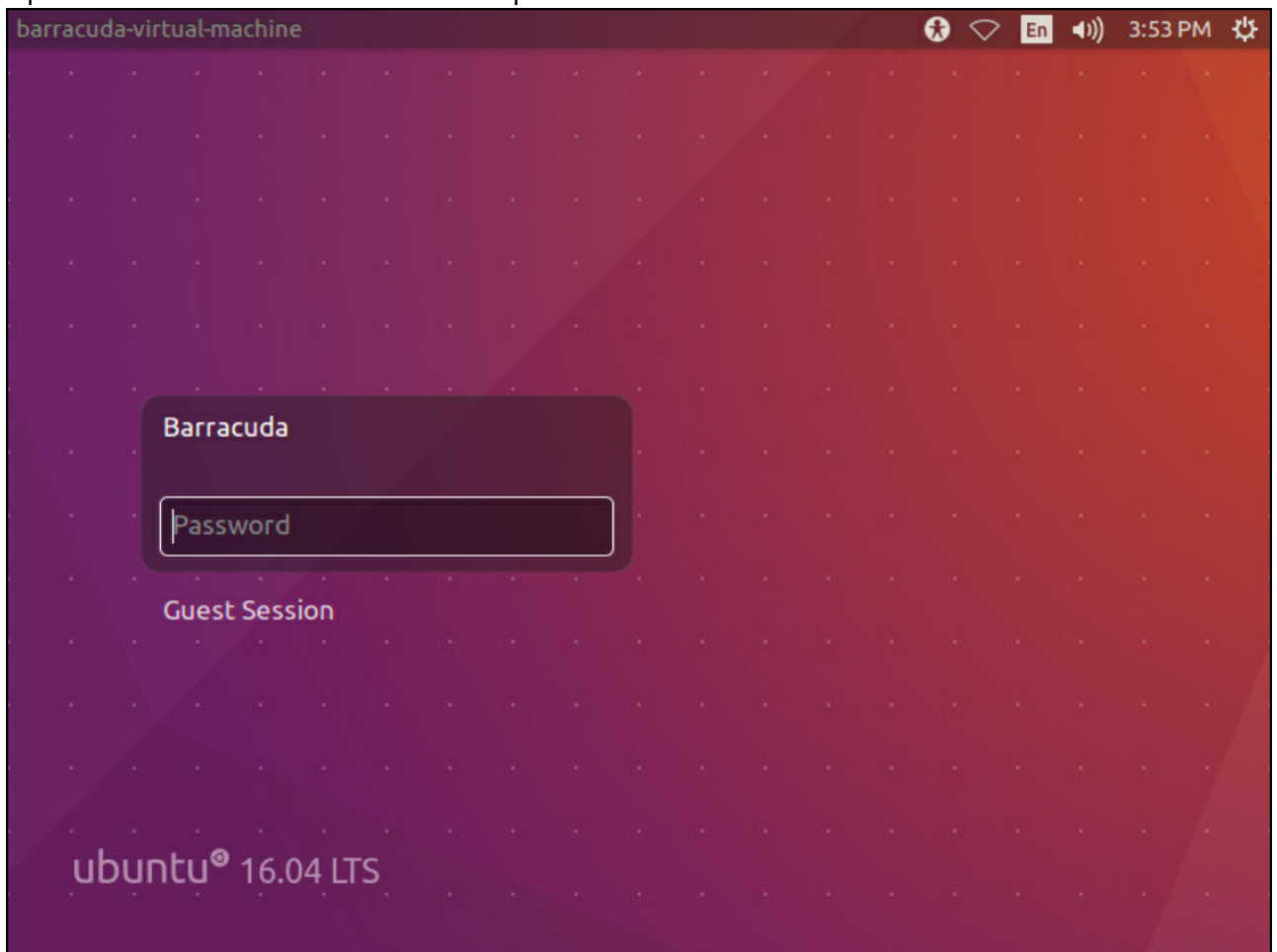
| Task Name | Target | Status | Initiator | Queued For | Start Time | Completion Time | Server |
|------------------------|--------|-----------|----------------------|------------|---------------------|---------------------|------------------------------|
| Create virtual machine | NR-LAB | Completed | NUTANIXBD\ibarrac... | 3 ms | 2/8/2018 3:52:24 PM | 2/8/2018 3:52:25 PM | PROD-vCSA-Win.nutanixbd.I... |
| Create NAS datastore | | Completed | NUTANIXBD\ibarrac... | 4 ms | 2/8/2018 3:52:24 PM | 2/8/2018 3:52:24 PM | PROD-vCSA-Win.nutanixbd.I... |

6. Within a few seconds, the recovered VM is visible within your VM list in the vSphere Web Client

and begins the boot process:



7. Open the VM console to view the boot process:



8. If this is only a recovery test or you have no plans on keeping the recovered VM, click **Stop** in the Barracuda Backup **LiveBoot** page, and click **Destroy**. This will shut down the VM, delete it, and unmount the Barracuda Backup NFS datastore:

BU

Dashboard

Backup

Restore

Reports

System

Admin

Restore Browser

LiveBoot

Cloud LiveBoot

LiveBoot ⓘ

How to recover VMs to production

Add LiveBoot

| VM Name | Status | Revision | Destination ⓘ | Actions |
|--|-------------|------------|---|------------------------------------|
| Barracuda-Windows-Server-2016 100 GB | Not Running | 02/08/2018 | | <div>Start</div> <div>Remove</div> |
| Barracuda-Ubuntu 50 GB | ✓ Running | 02/08/2018 | Datacenter: NR-LAB Host: 10.16.0.160 | <div>Stop</div> |

9. If you want to keep the recovered VM, you can use vMotion to perform a datastore migration or shut the VM down and perform a datastore migration to move the VM disk from the Barracuda Backup device and onto a datastore of your choosing.

Figures

1. Nutanix_03.png
2. Figure 4.png
3. Figure 5.png
4. Figure 6.png
5. Figure 7.png
6. Figure 8.png
7. Figure 9.png
8. Figure 10.png
9. Figure 11.png
10. Figure 12.PNG
11. Figure 13.PNG
12. Figure 14.PNG
13. Figure 15.png

© Barracuda Networks Inc., 2024 The information contained within this document is confidential and proprietary to Barracuda Networks Inc. No portion of this document may be copied, distributed, publicized or used for other than internal documentary purposes without the written consent of an official representative of Barracuda Networks Inc. All specifications are subject to change without notice. Barracuda Networks Inc. assumes no responsibility for any inaccuracies in this document. Barracuda Networks Inc. reserves the right to change, modify, transfer, or otherwise revise this publication without notice.