

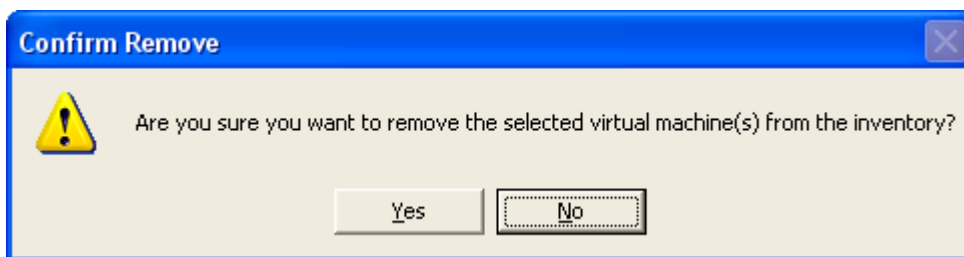
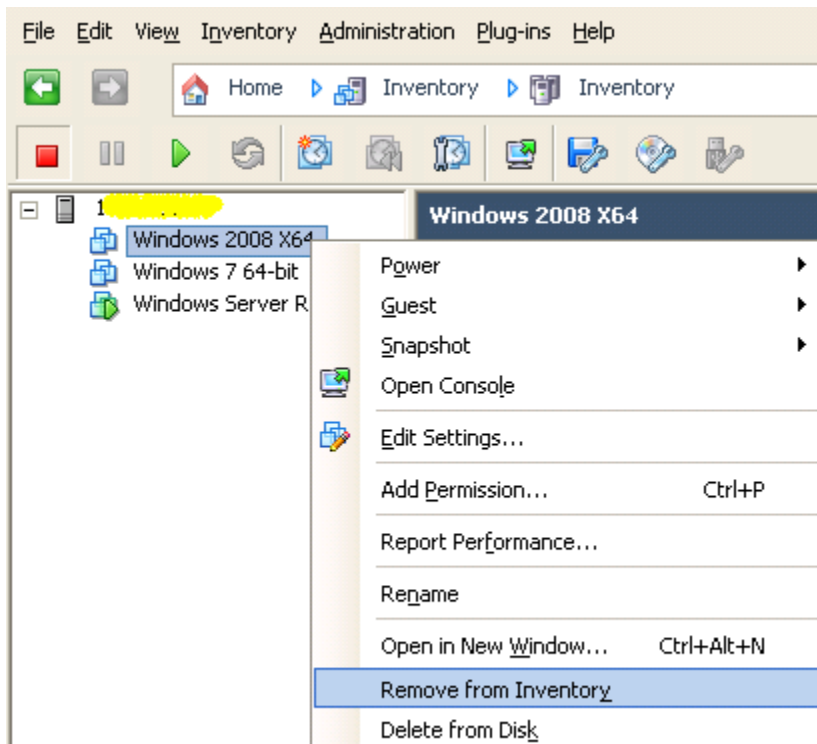
August, 02, 2012
Jeremy Li

Credit: Batman Premiere at LA Live with Nimble Storage, VMware, Softchoice and Veeam - Super Powers in the Datacenter, July 27, 2012

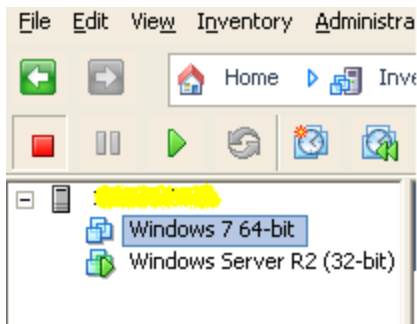
Veeam - www.veeam.com

Restoring one VM (Windows Server 2008 R2) at a testing environment

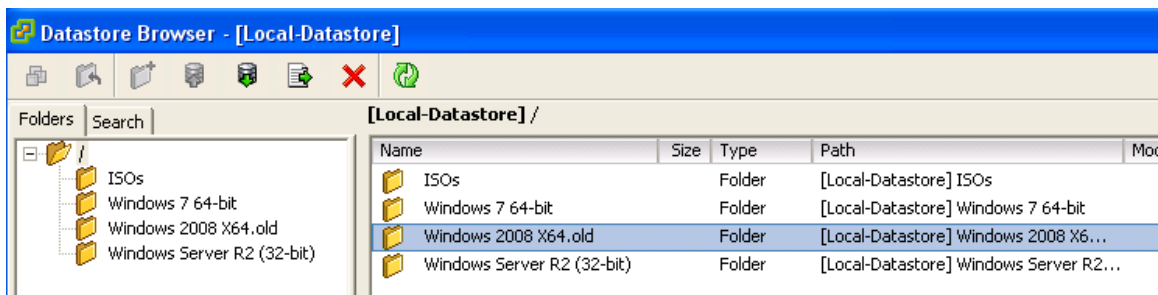
1. Shut the Windows Server 2008 R2 down (Simulate a VM crashed)
2. Remove the VM from Inventory and click “**Yes**” button to complete the task, as shown in the pictures below:



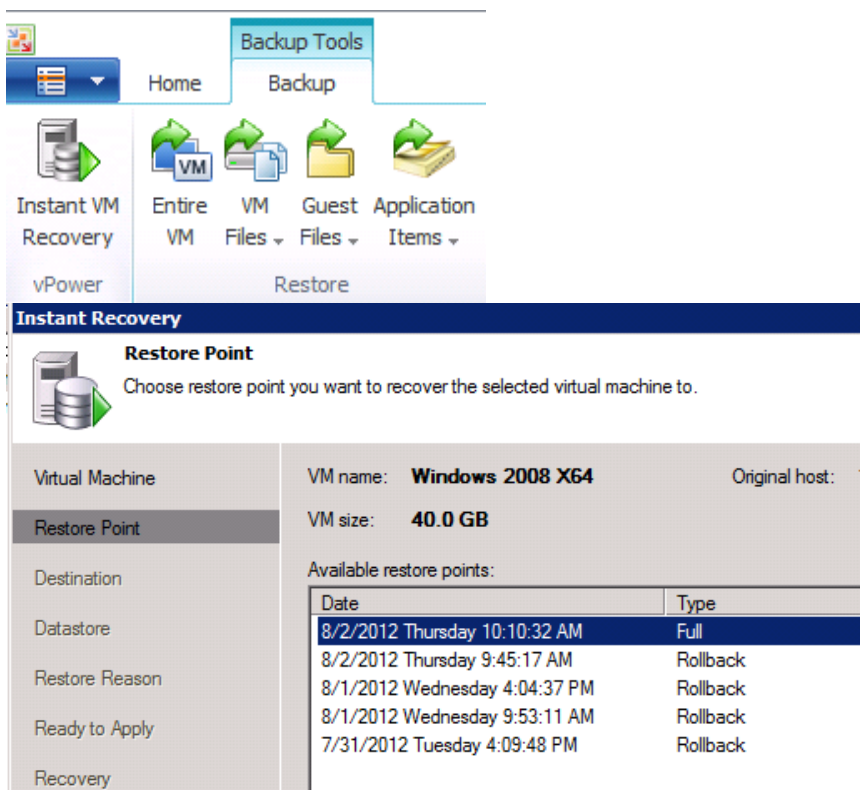
Now you will see the **Windows 2008 R2 X64** is no longer in the console screen, as shown in the picture below:



3. Rename the VM folder in Datastore (This step is not necessary)



3. On the Veeam server, click “**Instant VM Recovery vPower**” button, and select the restore point and click “Next” button, as shown in the picture below:



4. Choose the Host (IP Address) and check two boxes, as shown below:

The screenshot shows the 'Instant Recovery' wizard with the 'Destination' step selected. The left sidebar lists steps: Virtual Machine, Restore Point, Destination (highlighted), Datastore, Restore Reason, Ready to Apply, and Recovery. The main area contains the following fields and options:

- Host:** A text box containing '1' followed by a yellowed-out IP address, with a 'Choose...' button to its right.
- Restored VM name:** A text box containing 'Windows 2008 X64'.
- Resource pool:** A section header above a list box containing 'Resources'.
- Checkboxes:** Two checked checkboxes at the bottom: 'Connect VM to network' and 'Power on VM automatically'.
- Buttons:** At the bottom right are '< Previous', 'Next >', 'Finish', and 'Cancel'.

Click **“Next”** button to continue


5. **Datastore:** Click **“Next”** button to continue

The screenshot shows the 'Instant Recovery' wizard with the 'Datastore' step selected. The left sidebar lists steps: Virtual Machine, Restore Point, Destination, Datastore (highlighted), Restore Reason, Ready to Apply, and Recovery. The main area contains the following fields and options:

- Redirect virtual disk updates:** An unchecked checkbox.
- Datastore:** A text box with the placeholder 'Click Choose to pick the datastore' and a 'Choose...' button to its right.
- Datastore info:** A box containing 'Capacity: <Datastore not set>' and 'Free space: <Datastore not set>'.
- Buttons:** At the bottom right are '< Previous', 'Next >', 'Finish', and 'Cancel'.

6. **Restore reason:** Click “**Next**” button to continue

Instant Recovery



Restore Reason

Provide the reason for performing this restore. This information will be saved in the restore sessions history for later reference.

Virtual Machine

Restore Point

Destination

Datastore

Restore Reason

Ready to Apply

Recovery

Restore reason:

VM was crashed


< Previous

Next >

Finish

Cancel

7. **Ready to Apply:** Click “**Next**” button to continue



Ready to Apply
Please review the provided settings.

Virtual Machine

Restore Point

Destination

Datastore

Restore Reason

Ready to Apply

Recovery

Instant recovery settings:

VM:

Windows 2008 X64, backed up 8/2/2012

Host:

1

Datastore:

Disabled

New VM name:


Windows 2008 X64

Power on:

Yes

Network connect:

Yes



Make sure original server is powered off. Recovering server into production network with original server still running may affect some applications.

After you click Next, the selected VM will be instantly recovered into your production environment. To finalize the recovery, use Storage VMotion to move running VM to the production storage. Alternatively, you can perform cold VM migration during your next maintenance window.

If you are performing manual recovery testing, remember to change VM network to non-production before powering on the VM.

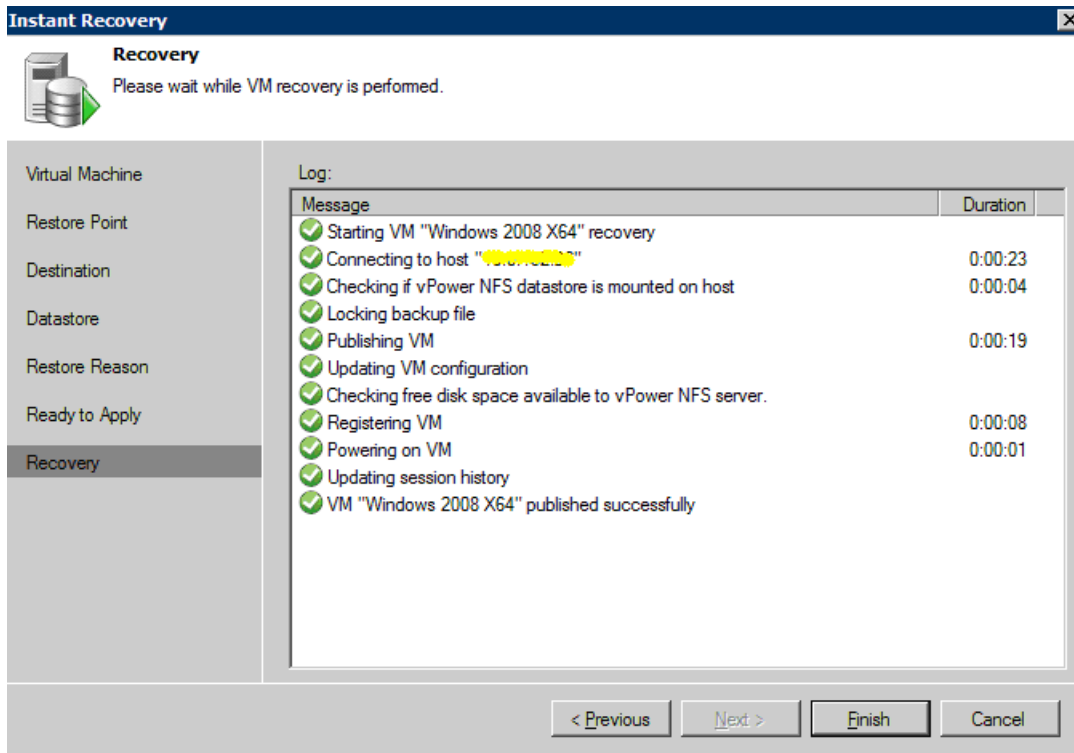
< Previous

Next >

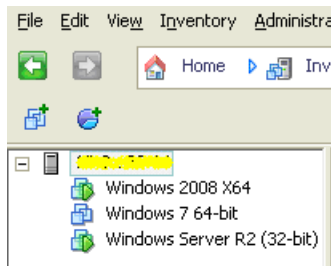
Finish

Cancel

8. **Instant Recovery** (It only took a few seconds): Click “**Finish**” button

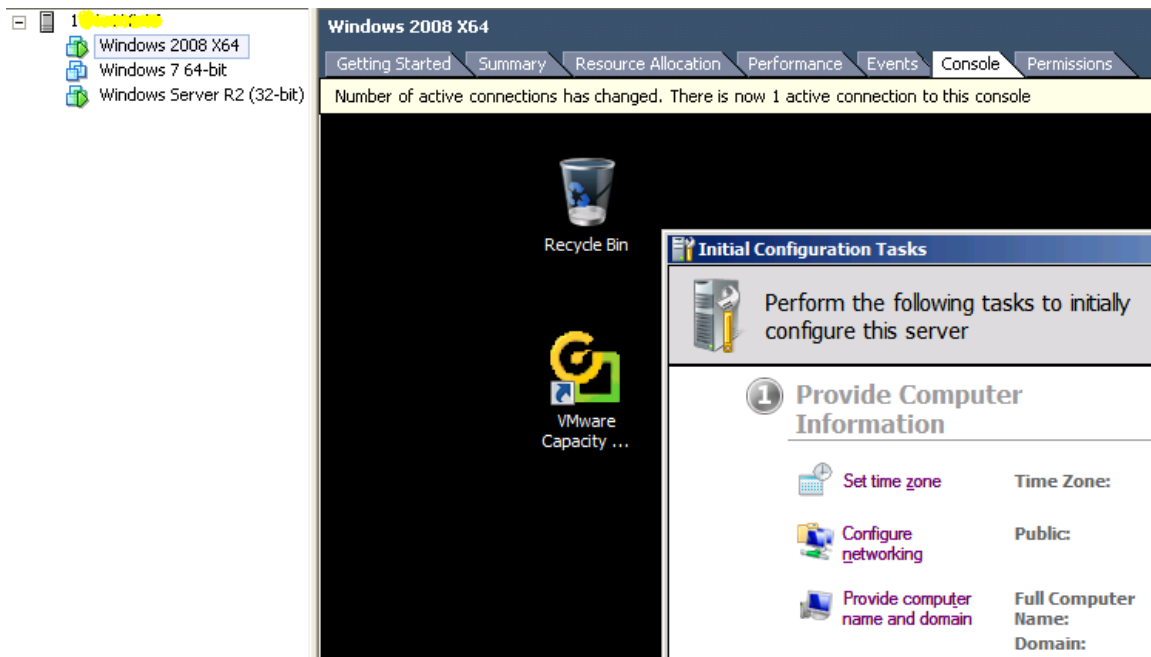


9. Go back to VMware console. The instant VM is appearing, as shown in the picture below:

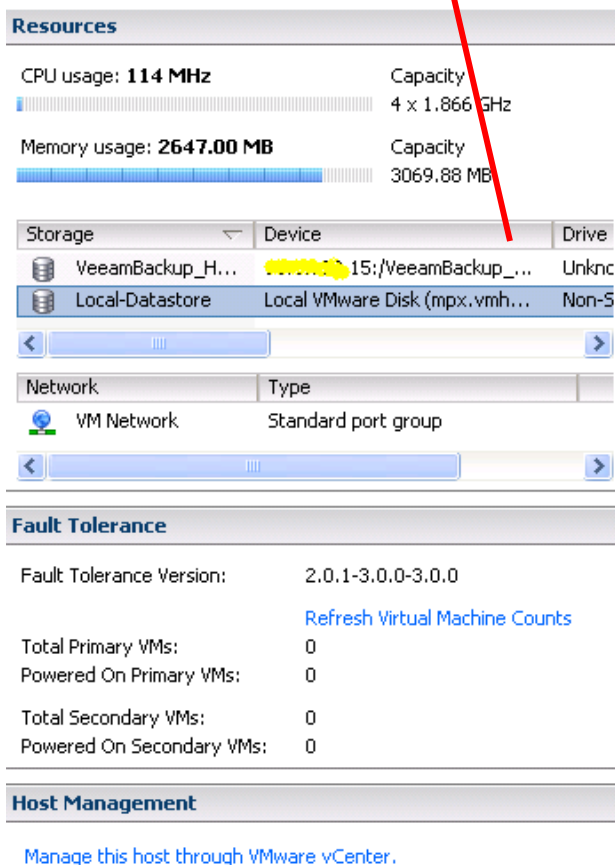


10. **Log in to the Windows Server 2008 R2**

Log in to the server with a success, as shown in the picture below:



Please note that the **Instant VM** is running from a compressed and deduplicated backup file from a Veeam Server, as shown in the picture below:

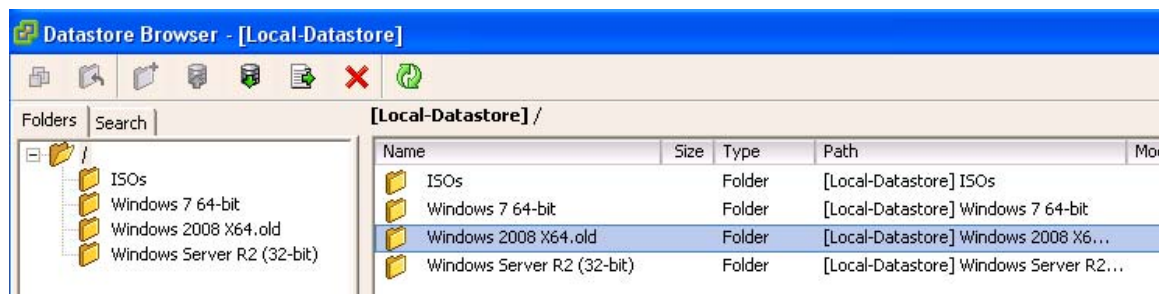


Therefore, the performance will be affected. For a best practice, move the Instant VM Recovery VM to the production ASAP.

Click http://www.veeam.com/vmware-backup/help-center/hyperv/index.html?quick_migration.htm for the quote:

“Veeam Quick Migration was designed to complement Instant VM Recovery. Instead of pulling data from vPower NFS datastore, Quick Migration registers the VM on the target host, restores the VM contents from the backup file located in the backup repository and synchronizes the VM restored from backup with the running VM.”

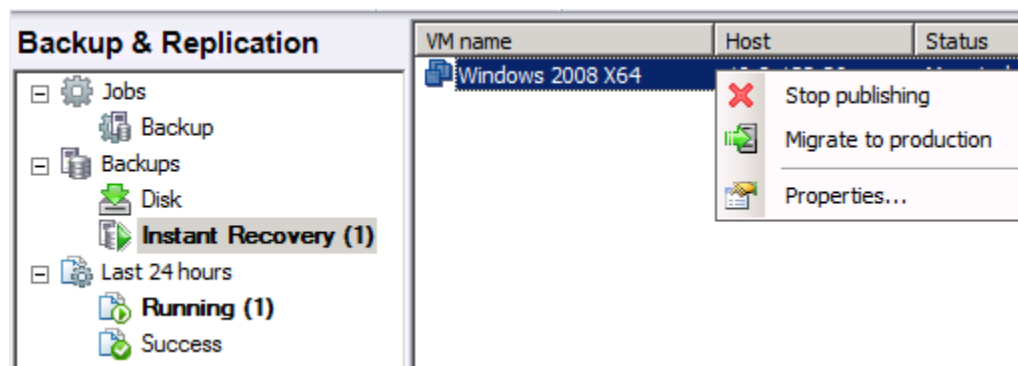
Check the current Datastore, it is still the same prior to the Install VM recovery process.



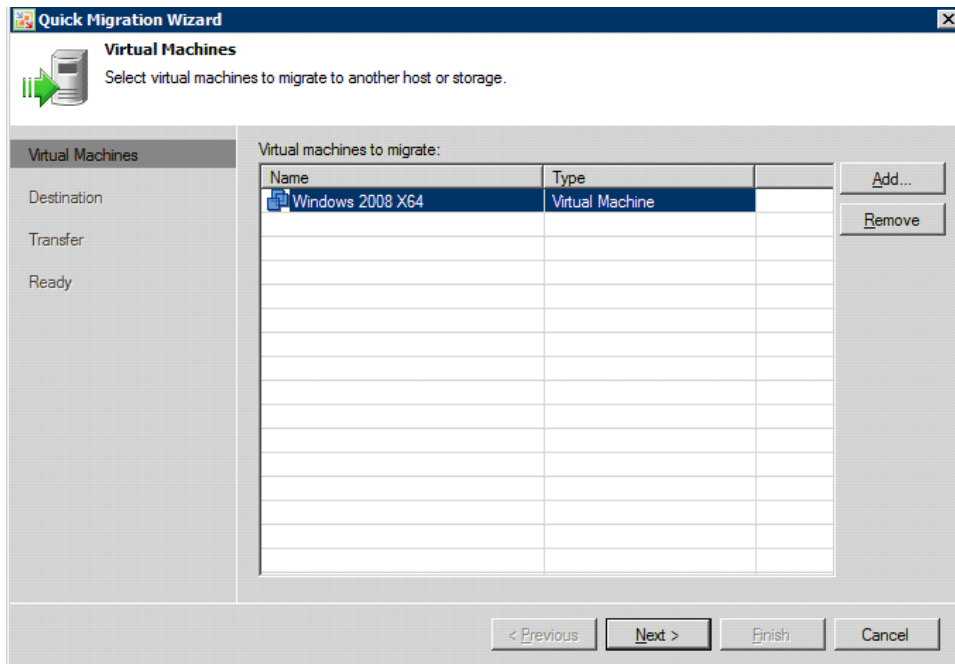
11. Moving the instant VM into a production

With V-motion, it is an automatic process. But, since the current lab does not have a v-Motion installed, a manual operation is required by using “Veeam Quick Migration” method:

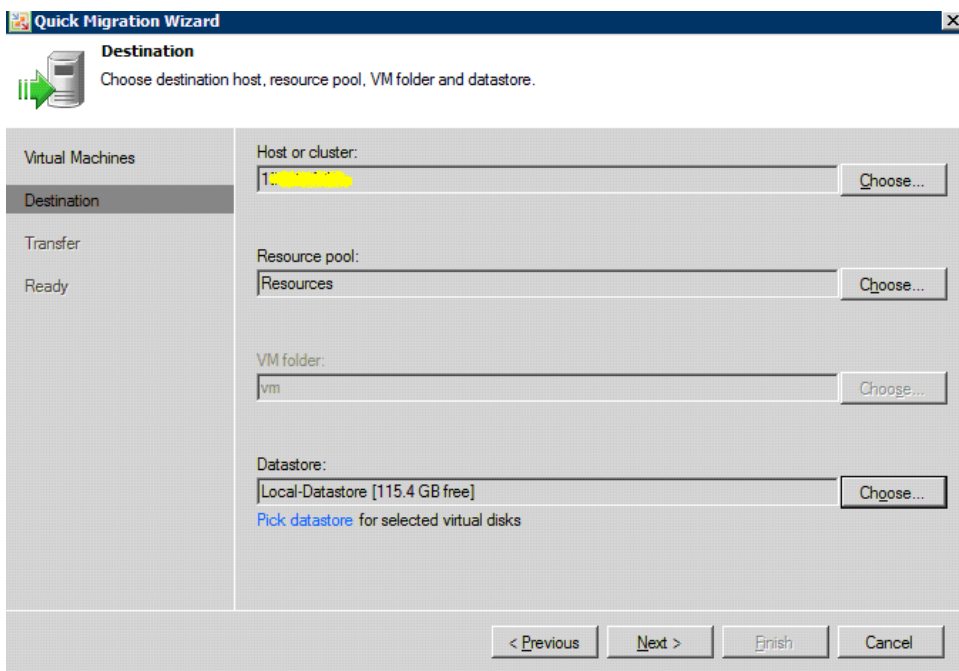
- Right-click VM name, and select “**Migrate to production**”, as shown in the picture below:

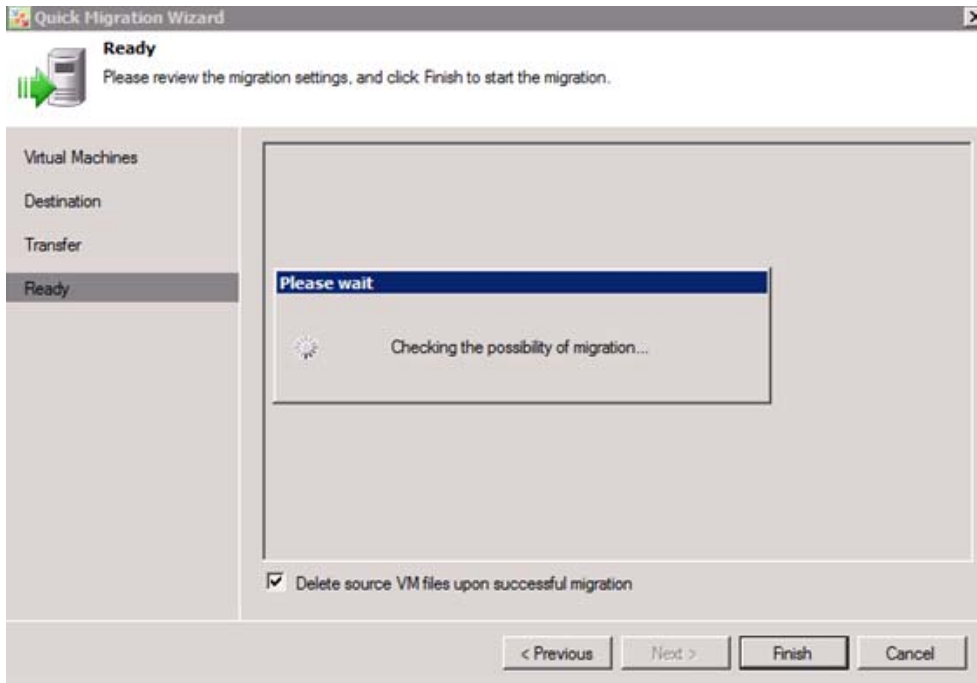


- Select VM to migrate to a production host and click “**Next**” button to continue

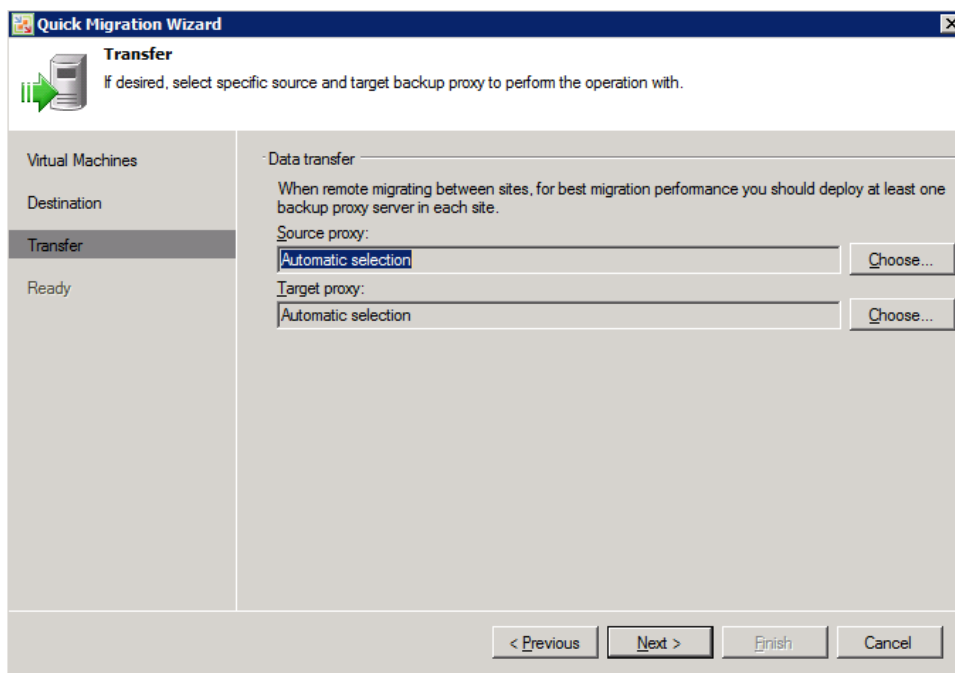


- c) Choose a Host and associated Datastore from a production host and click **"Next"** button to continue, as shown in the picture below:

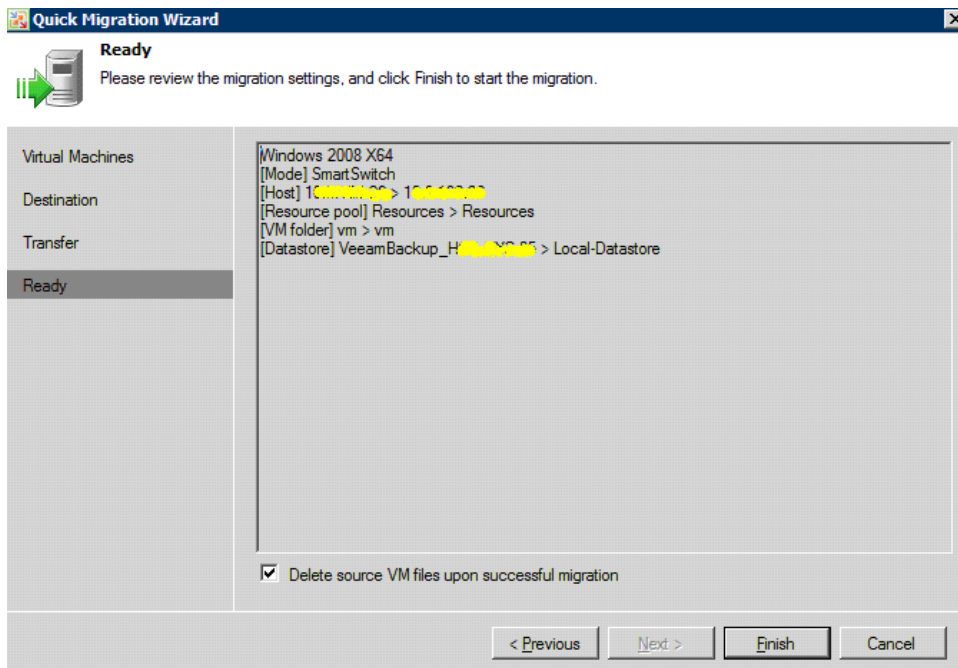




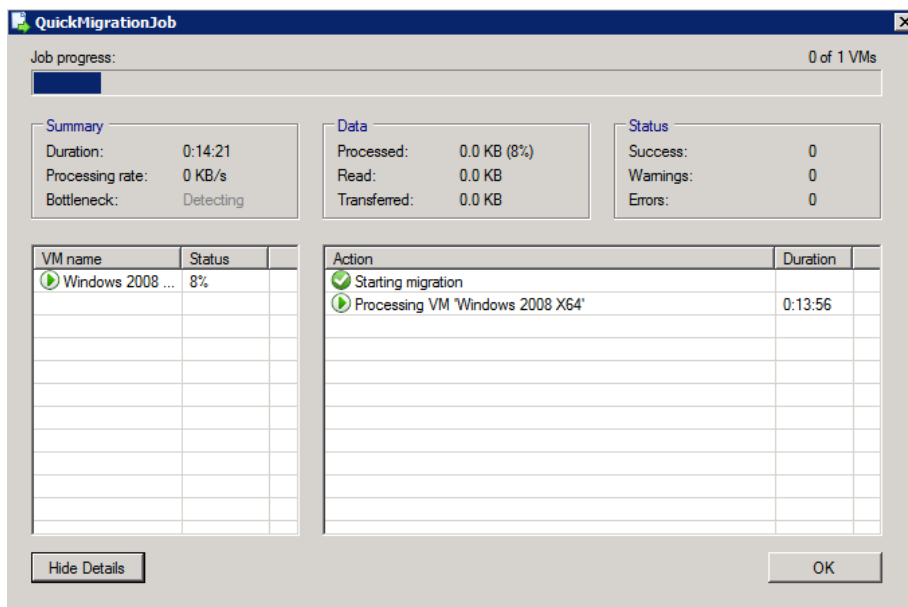
- d) Leave the Source and Target proxy by default and click “**Next**” button to continue, as shown in the picture below:

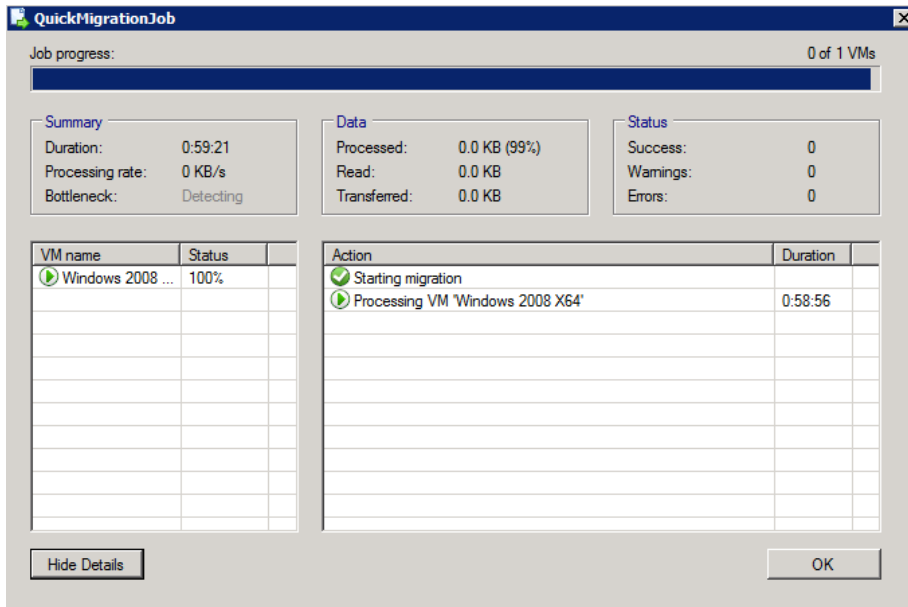


- e) Click “**Finish**” button to start the migration, as shown in the picture below:

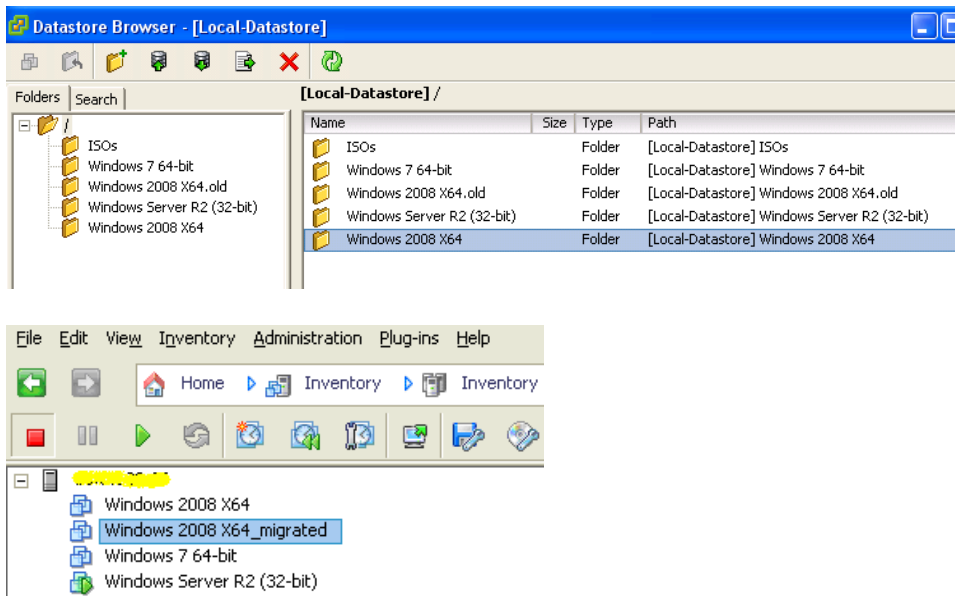


f) The job progress status window is shown in the picture below:





Verify that Datastore has the OS folder and vSphere Client console, as shown below:



The end of the complete restoration!