

PlateSpin Migrate 12.2 Beta Release Notes

October 2016



PlateSpin Migrate 12.2 Beta includes support for the migration of Microsoft Windows and Linux workloads to VMware vCloud. It provides an easily manageable on-premise solution with a feel similar to migrating workloads to any non-cloud platform.

Many of these improvements were made in direct response to suggestions from our customers. We thank you for your time and valuable input. We hope you continue to help us ensure that our products meet all your needs. You can post feedback in the PlateSpin Migrate Discussion Forum on the [PlateSpin Beta Workspace](#).

The documentation for this product is available on the NetIQ website in HTML and PDF formats on a page that does not require you to log in. If you have suggestions for documentation improvements, click **comment on this topic** at the bottom of any page in the HTML version of the PlateSpin Migrate 12.2 Beta documentation posted at the [PlateSpin Migrate 12.2 Beta Documentation website](#).

This product contains undocumented utilities that the Technical Support team might use to diagnose or correct problems.

For documentation that accompanied earlier releases, visit the [PlateSpin Migrate 12.2 Beta Documentation website](#) and scroll to *Previous Releases*.

NOTE: The PlateSpin Migrate 12.2 User Guide and the PlateSpin Migrate 12.2 Install Guide are in the process of being updated for 12.2.

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1 What's New?

PlateSpin Migrate 12.2 Beta includes a technical preview for migration of Windows and Linux workloads to VMware vCloud. It provides an enhanced PlateSpin Migrate Web Interface that lets you migrate the following workloads to VMware vCloud:

Windows

- ♦ Microsoft Windows Server 2012 R2
- ♦ Microsoft Windows Server 2012
- ♦ Microsoft Windows Server 2008 R2

Linux

- ♦ Red Hat Enterprise Linux 7.0, 6.7
- ♦ SUSE Linux Enterprise Server (SLES) 11 SP3

NOTE

- ♦ Migration of UEFI workloads to VMware vCloud is not supported.
 - ♦ The PlateSpin Migrate Client does not support migration of workloads to any cloud platform. You must use only the PlateSpin Migrate Web Interface to migrate workloads to cloud.
 - ♦ Test Cutover of workloads is not supported. You can perform only Run Cutover of workloads.
 - ♦ The target VM configuration must be equal to or greater than your source workload in terms of the number of cores, the amount of memory, and the number of available disks. Remember that Migrate needs one of the target data disks for replication.
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2 System Requirements

For information about the requirements to install the PlateSpin Migrate 12.2 Beta software, see [Preparing to Install PlateSpin Migrate](#) in the *PlateSpin Migrate 12.2 Installation and Upgrade Guide*.

3 Downloading the PlateSpin Migrate 12.2 Beta Software

To download the PlateSpin Migrate 12.2 Beta software, go to the [PlateSpin Beta Workspace \(https://vibe.novell.com/novl/workspace/migrate12.2_beta\)](https://vibe.novell.com/novl/workspace/migrate12.2_beta), and follow the download link on that page. Use your NetIQ account credentials to log in to this website.

4 Installing PlateSpin Migrate 12.2 Beta

Upgrading to PlateSpin Migrate 12.2 Beta from previous releases of PlateSpin Migrate is not supported. To install PlateSpin Migrate 12.2 Beta, see “[Installing PlateSpin Migrate](#)” in the *PlateSpin Migrate 12.2 Installation and Upgrade Guide*.

IMPORTANT: Use of PlateSpin Migrate 12.2 Beta in a production environment is prohibited.

5 Prerequisites for Migrating Workloads to VMware vCloud

PlateSpin Migrate uses the VMware vCloud Director for migrating workloads to VMware vCloud. Before you use PlateSpin Migrate to migrate workloads to VMware vCloud, ensure that you met the following requirements:

- ♦ [Section 5.1, “Setting up vCloud Organization,” on page 3](#)
- ♦ [Section 5.2, “Understanding PlateSpin Replication Environment,” on page 3](#)
- ♦ [Section 5.3, “Configuring Advanced PlateSpin Settings,” on page 4](#)

5.1 Setting up vCloud Organization

You must set up a vCloud organization with a minimum set of resources:

- ☐ Organization Virtual Data Center (Org vDC) for target VM is defined (minimum one)
- ☐ Organization Virtual Data Center (Org vDC) Network for target VM is defined (minimum one)
- ☐ Setup Catalog settings that allow the usage with full control
- ☐ vCloud Organization Administrator level access for migration
- ☐ Policies for target VM is defined
 - ☐ vApp and vApp template lease period should not expire during migration
 - ☐ No restrictions on VMs quota should be set
 - ☐ No restrictions on the number of connections or operations to vCloud organization

5.2 Understanding PlateSpin Replication Environment

PlateSpin requires Replication Environment for performing migrations to vCloud Director Environment. The Replication Environment is a virtual appliance based on SLES 11 Operating System and contains all the necessary PlateSpin tools built in it.

For PlateSpin to create Replication Environment during migration process, you must upload the PlateSpin Replication Environment Template OVF Package that PlateSpin Migrate provides on the [PlateSpin Beta Workspace \(https://vibe.novell.com/novl/workspace/migrate12.2_beta\)](https://vibe.novell.com/novl/workspace/migrate12.2_beta).

- ♦ [Section 5.2.1, “Uploading PlateSpin Replication Environment in to vCloud Organization,” on page 3](#)
- ♦ [Section 5.2.2, “Resources Used in the PlateSpin Replication Environment,” on page 4](#)

5.2.1 Uploading PlateSpin Replication Environment in to vCloud Organization

- 1 PlateSpin Migrate provides a Replication Environment VM appliance in VMware OVF Package. named `PlateSpin_Replication_Environment.zip`. To download the PlateSpin Replication Environment Template, go to the [PlateSpin Beta Workspace \(https://vibe.novell.com/novl/workspace/migrate12.2_beta\)](https://vibe.novell.com/novl/workspace/migrate12.2_beta).
- 2 Create a private Catalog named `PlateSpin Catalog` within the Organization and provide the complete permissions.

- 3 Unzip the `PlateSpin_Replication_Environment.zip` to the `C:\PlateSpin_Replication_Environment` directory.
- 4 Use the vCloud Director Web console to upload `C:\PlateSpin_Replication_Environment\OVF PlateSpin` package into the PlateSpin Catalog as a vApp Template.

A replication environment in the following hierarchy is visible:

- ♦ PlateSpin Catalog (Catalog)
 - ♦ PlateSpin Replication Environment (vApp Template)
 - ♦ PlateSpin Virtual Appliance (VM Template)

5.2.2 Resources Used in the PlateSpin Replication Environment

PlateSpin uses minimum resources for the Replication Environment Virtual Machine.

Hardware Configurations

- ♦ Virtual CPUs = 1
- ♦ Cores Per Socket = 1
- ♦ RAM Size = 1 GB
- ♦ Disk Size = 4 GB
- ♦ Network Adapter = 1 of type E1000
- ♦ Virtual Hardware Version = 8

Access Credentials

- ♦ Username = root
- ♦ Password = password

5.3 Configuring Advanced PlateSpin Settings

You can configure some of the advanced PlateSpin settings on the PlateSpin Configuration page ([https:// Your_PlateSpin_Server/platespinconfiguration/](https://Your_PlateSpin_Server/platespinconfiguration/)).

- ♦ [Section 5.3.1, “VCloudIpAddressAllocationModeForDhcp,” on page 4](#)
- ♦ [Section 5.3.2, “LeaveCloudResourcesOnError;,” on page 5](#)

5.3.1 VCloudIpAddressAllocationModeForDhcp

PlateSpin supports the following vCloud IP Addressing Modes:

- ♦ Static – Manual
- ♦ Static – Pool
- ♦ DHCP services

If you configure DHCP in the job configuration, the IP is automatically allocated using either Static-Pool or DHCP modes. By default, PlateSpin uses the DHCP mode. To use the Static-Pool mode, modify the `VCloudIpAddressAllocationModeForDhcp` setting accordingly.

5.3.2 LeaveCloudResourcesOnError:

By default, PlateSpin deletes the target VM and its associated resources when there is an error during migration. If you need these resources for troubleshooting purpose and do not want to delete them, set this configuration setting to `True`.

6 Key Tasks For Migrating Workloads to VMware vCloud

To migrate workloads to VMware vCloud, you must have a source workload that you want to migrate and a VMware vCloud Organization target to which you can migrate the source workload. Review the following sections for information about migrating workloads to VMware vCloud:

- ♦ [Section 6.1, “Add or Discover a Workload,” on page 5](#)
- ♦ [Section 6.2, “Add a VMware vCloud Organization as a Migration Target,” on page 5](#)
- ♦ [Section 6.3, “Migrating the Discovered Workload to VMware vCloud,” on page 6](#)

6.1 Add or Discover a Workload

To migrate a workload through the Web Interface, you must first add or discover the workload:

- 1 In the PlateSpin Migrate Web Interface, click **Workloads** > **Add Workload**.
Alternatively, you can click the **Add Workload** option on the Dashboard page.
- 2 Specify the hostname or the IP address of the workload you want to add.
- 3 Select the type of workload as **Windows** or **Linux**.
- 4 Specify the credentials to connect to the workload.
- 5 Click **Add Workload** to discover the workload and list it on the Workloads page.

6.2 Add a VMware vCloud Organization as a Migration Target

The Targets page displays all the available targets and lets you add a new target.

To add a VMware vCloud Organization target:

- 1 In the PlateSpin Migrate Web Interface, click **Targets** > **Add Target**.
- 2 Specify the following:
 - ♦ **Type:** Select **VMware vCloud Organization**.
 - ♦ **vCloud Director Server Address:** Specify the hostname or IP address of the vCloud Director server.
 - ♦ **Organization Name:** Specify the name of the organization in the vCloud Director Server.
 - ♦ **Username and Password:** Specify the organization-level administrator credentials for accessing the target host.

For more information, see [VMware vCloud Director Documentation](#).

- 3 Click **Add**.

6.3 Migrating the Discovered Workload to VMware vCloud

After you add or discover a workload, the workload is listed on the Workloads page and the status is set as **Not Configured**. Before you migrate the workload, you must configure the workload for migration.

To configure and migrate a discovered workload:

- 1 Launch the PlateSpin Migrate Web Interface.
- 2 On the Workloads page, select the workload you want to configure.
- 3 Click **Configure Migration**.
- 4 Select **Full Replication** to transfer a full volume of data from the source to the target.

NOTE: Incremental Replication of data to VMware vCloud is not supported.

- 5 Select a VMware vCloud Organization that you previously configured as a target. See [Section 6.2, “Add a VMware vCloud Organization as a Migration Target,” on page 5](#).
- 6 Click **Configure Migration**.
- 7 Configure the following settings:

Setting Name	Description
Schedule Settings	
Compression Level	<p>These settings control how workload data is compressed before transmission. See Data Compression. Select one of the following options:</p> <ul style="list-style-type: none">♦ Fast: Consumes the least CPU resources on the source, but yields a lower compression ratio.♦ Optimal: Consumes optimal CPU resources on the source and yields an optimal compression ratio. This is the recommended option.♦ Maximum: Consumes the most CPU resources on the source, but yields a higher compression ratio.
Bandwidth Throttling	<p>These settings control the bandwidth throttling. PlateSpin Migrate enables you to control the amount of available bandwidth consumed by direct source-to-target communication over the course of a workload migration. You can specify a throughput rate for each migration job. This provides a way to prevent migration traffic from congesting your production network and reduces the overall load of your PlateSpin Server.</p> <p>To throttle replications to a specified rate, specify the required throughput value in Mbps and the time pattern.</p>
Migration Settings	
Transfer Method	<p>Select a data transfer mechanism and security through encryption. See Supported Data Transfer Methods.</p> <p>To enable encryption, select the Encrypt Data Transfer option. See Security and Privacy.</p> <p>NOTE: The Offline Transfer with Temporary Boot Environment transfer method is not applicable for the Web interface.</p>
Source Credentials	<p>Specify the credentials required for accessing the workload. See Discovery Guidelines for Machine Types and Credentials.</p>

Setting Name	Description
CPU	<p>(VM containers using VMware 5.1, 5.5, and 6.0 with a minimum VM hardware Level 8) Specify the number of sockets and the number of cores per socket for the target workload. It automatically calculates the total cores. This parameter applies on the initial setup of a workload with an initial replication setting of Full Replication.</p> <p>NOTE: The maximum number of cores the workload can use is subject to external factors such as the guest operating system, the VM hardware version, VMware licensing for the ESXi host, and ESXi host compute maximums for vSphere (see <i>vSphere 5.1 Configuration Maximums</i> (http://www.vmware.com/pdf/vsphere5/r51/vsphere-51-configuration-maximums.pdf)).</p> <p>Some distributions of a guest OS might not honor the cores and cores per socket configuration. For example, guest OSES using SLES 10 SP4 and OES 2 SP3 retain their original cores and sockets settings as installed, whereas other SLES, RHEL, and OES distributions honor the configuration.</p>
Organization Virtual Datacenter	Select a virtual datacenter associated with your organization.
vApp	Specify a vApp name.
Virtual Machine Name	Specify a display name for the new virtual machine.
Disks	Specify the path to the hard disk on the target virtual machine.
Volumes	Select volumes to be included in the target for migration.
Replication Network for Target	Select the replication network for the target.
Replication Network for Source	Select the replication network for the source.
Services to Stop Temporarily on Source Before Any Replication	(Windows) We recommend that all the non-VSS compliant services or anti-virus are stopped temporarily on the source while the VSS snapshot is being captured on the source. Select the Windows services that you want to be temporarily stopped on the source workload while the VSS snapshot is being captured on the source. These services are restored back as soon as the VSS snapshot creation completes.
Services to Stop Permanently on Source For Cutover With Any Replication	<p>(Windows) Select the Windows services that should be permanently stopped on the source workload throughout the cutover process to ensure application data consistency.</p> <p>The services stopped on the source machine during the cutover process are not restored after the cutover process is complete even if you do not choose to shut down the source machine during the cutover process.</p>
Target Workload Settings	
(These settings are applied during the Run Cutover.)	
VM Memory	Specify the amount of memory allocated to the target workload.
VM Tools	To install the VM tools, select the Install VM Tools option . This option is selected by default.
Hostname	<p>Do one of the following:</p> <ul style="list-style-type: none"> ♦ To retain the same hostname, select No Change. ♦ To change the hostname, select Set To and specify the new name.

Setting Name	Description
Domain / Workgroup	<p>Depending on whether the source workload belongs to workgroup or domain, one of the following displays:</p> <ul style="list-style-type: none"> ♦ Workgroup: <i>Workgroup_name</i> where <i>Workgroup_name</i> is the workgroup name to which the source belongs. ♦ Domain: <i>Domain_name</i> where <i>Domain_name</i> is the domain name to which the source belongs. <p>Do one of the following depending on where you want the target workload to join:</p> <ul style="list-style-type: none"> ♦ When the source workload belongs to a workgroup: Assume that the source workload belongs to a workgroup named WorkGroup1. <ul style="list-style-type: none"> ♦ For the target workload to join the same workgroup (WorkGroup1), retain the following existing selection: Workgroup: Workgroup1 ♦ For the target workload to join a different workgroup (say WorkGroup2), select Join Workgroup and specify the name as WorkGroup2. ♦ For the target workload to join a domain, select Join Domain and specify the domain name you want the target to join. ♦ When the source workload belongs to a domain: Assume that the source workload belongs to a domain named Domain1. <ul style="list-style-type: none"> ♦ For the target workload to join a workgroup, click Join Workgroup and specify the name of the workgroup you want the target to join. ♦ For the target workload to join the same domain (Domain1) with the domain registration settings preserved, retain the following existing selection: Domain: Domain1 ♦ For the target workload to join the same domain (Domain1) without preserving the domain registration settings, select Join Domain and specify the domain name as Domain1. ♦ For the target workload to join a different domain, select Join Domain and specify the domain name you want the target to join.
Domain Credentials	If you select Join Domain , specify the domain administrator credentials.
Network Connections	<p>Select the local area connection and then select one of the following:</p> <ul style="list-style-type: none"> ♦ DHCP: Obtain an IP address automatically assigned by a DHCP server. ♦ Static: Specify a static IP address.
Services States on Target VM	Select Windows services that must be automatically stopped on the target VM.
Tag	
Tag	Select a tag to assign to the workload.

8 (Optional) To change the target, click **Change Target**.

NOTE: If you change the target, all the settings you specified will be cleared.

- 9 Do one of the following:
 - ♦ Click **Save** to save the settings.
 - ♦ Click **Cancel** to exit.
- 10 Review the migration details you configured for the workload. NetIQ recommends that you stop all services on the source workload before you migrate the workload.
- 11 Click **Run Cutover** to migrate the workload.

7 Known Issues

NetIQ Corporation strives to ensure our products provide quality solutions for your enterprise software needs.

If you need assistance with any issue, please use the [Forum - PlateSpin Migrate](#) discussion forum on the [PlateSpin Beta Workspace](#). Use your NetIQ account credentials to log in to this site.

- ♦ [Section 7.1, “Known Issues For Migrate to vCloud Technical Preview,” on page 9](#)

7.1 Known Issues For Migrate to vCloud Technical Preview

The following issues are being researched:

- ♦ [Section 7.1.1, “Configuring Migration for a Workload Fails If the vCloud Target Has an Organization Name That Exceeds 128 Characters,” on page 9](#)
- ♦ [Section 7.1.2, “Discovering a vCloud Target Fails If the Organization Name is Not Specified in the Correct Case As it Has Been Created,” on page 10](#)
- ♦ [Section 7.1.3, “Discovering a vCloud Target Fails If the Administrator Credentials for the Organization Has Special Characters,” on page 10](#)
- ♦ [Section 7.1.4, “Aborting a Run Cutover Operations Does Not Delete the Target VM in the vCloud Organization,” on page 10](#)
- ♦ [Section 7.1.5, “Migrations for a Linux Workload That Has Volume Group Spanning Across Multiple Disks is not supported,” on page 10](#)
- ♦ [Section 7.1.6, “VMware Tools Not Installed Post Conversion For the Workloads That Has VMware Tools Installed Before Conversion,” on page 10](#)
- ♦ [Section 7.1.7, “Conversion of Windows Server 2012 or Windows Server 2012 R2 Workload to VMware vCloud Hangs With an Error,” on page 10](#)

7.1.1 Configuring Migration for a Workload Fails If the vCloud Target Has an Organization Name That Exceeds 128 Characters

Issue: When configuring migration for a workload, if you select a **VMware vCloud Organization** target with the organization name exceeding 128 characters, the configuration fails with an error. (Bug 998567)

Workaround: Ensure the organization name for a VMware vCloud Organization target does not exceed 128 alphanumeric characters.

7.1.2 Discovering a vCloud Target Fails If the Organization Name is Not Specified in the Correct Case As it Has Been Created

Issue: The name of the VMware vCloud Organization is case sensitive. When you discover a vCloud target, the discovery fails if you specify the organization name in an incorrect case. For example, if your organization name is XYZ, then you must specify XYZ only. Discovery fails if you specify names such as Xyz, XYZ, xyz, or xYZ. (Bug 997315)

Workaround: None.

7.1.3 Discovering a vCloud Target Fails If the Administrator Credentials for the Organization Has Special Characters

Issue: When you discover a vCloud target, the discovery fails if you the administrator credentials for the organization includes special characters. (Bug 997342)

Workaround: Ensure that the administrator credentials for the vCloud Organization does not include any special characters.

7.1.4 Aborting a Run Cutover Operations Does Not Delete the Target VM in the vCloud Organization

Issue: When you perform a run cutover operation to migrate a workload to VCloud, if you choose to abort the cutover operation, the target VM does not get deleted. (Bug 1002817)

Workaround: Log into the VMware vCloud Director and manually delete the VM.

7.1.5 Migrations for a Linux Workload That Has Volume Group Spanning Across Multiple Disks is not supported

Issue: If you configure a migration job for a Linux workload that has volume group spanning across multiple disks and contains data volume inside the volume group, an error message displays. But, the job configuration is saved. If you use this job configuration to perform a run cutover operation, the operation fails. (Bug 1003386)

Workaround: None.

7.1.6 VMware Tools Not Installed Post Conversion For the Workloads That Has VMware Tools Installed Before Conversion

Issue: If you migrate a workload that has VMware tool installed, the VMware tools are not installed on the target workload. (Bug 1003129)

Workaround: Manually install the VMware tools on the target workload.

7.1.7 Conversion of Windows Server 2012 or Windows Server 2012 R2 Workload to VMware vCloud Hangs With an Error

Issue: If you migrate a Windows Server 2012 or a Windows Server 2012 R2 workload to VMware vCloud, the conversion hangs with the following error and the target machine fails to boot:

The Configuration service in the target machine does not seem to have started
(Bug 1003549)

Workaround: Perform the following steps to edit the type of the Disk Controller on the target VM:

- 1 In the VMware vCloud Director, power off the target VM.
- 2 Right-click the VM and select **Open in vSphere Web Client**.
- 3 In the **Actions** tab, select **Edit Settings**.
- 4 Select the Disk Controller type that best suits the operating system on the target VM.
- 5 Power on the target VM.

8 Beta Program Contact Information

A PlateSpin Migrate Discussion forum is available on the [PlateSpin Beta Workspace](#). Use your NetIQ account credentials to log in, then click **Forum - PlateSpin Migrate** to discuss issues with product engineers and other Beta Customers.

9 NetIQ Contact Information

Our goal is to provide documentation that meets your needs. If you have suggestions for improvements, please email Documentation-Feedback@netiq.com (<mailto:Documentation-Feedback@netiq.com>). We value your input and look forward to hearing from you.

For detailed contact information, see the [Customer Service Contact Information website](http://www.netiq.com/support/process.asp#phone) (<http://www.netiq.com/support/process.asp#phone>).

For general corporate and product information, see the [NetIQ Corporate website](http://www.netiq.com/) (<http://www.netiq.com/>).

For interactive conversations with your peers and NetIQ experts, become an active member of our [community](https://www.netiq.com/communities/) (<https://www.netiq.com/communities/>). The NetIQ online community provides product information, useful links to helpful resources, blogs, and social media channels.

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