

PlateSpin® Transformation Manager Appliance Guide

May 2017

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About This Book and the Library

The *Appliance Guide* provides information about the requirements, initial configuration, and maintenance for the PlateSpin Transformation Manager Appliance.

Intended Audience

This document is intended for IT staff, such as data center administrators and operators, who use the product to plan, execute, and monitor their large-scale data center transformation projects and workload migration projects.

Information in the Library

The documentation library for this product is available in HTML and PDF formats on the [PlateSpin Transformation Manager Documentation website \(https://www.netiq.com/documentation/platespin-transformation-manager-1-1/\)](https://www.netiq.com/documentation/platespin-transformation-manager-1-1/).

Additional Resources

We encourage you to use the following additional resources online:

- ♦ [Micro Focus Workload Migration and Disaster Recovery channel on YouTube.com \(https://www.youtube.com/channel/UChuzpo3HbYpPI93icqeOzJQ\)](https://www.youtube.com/channel/UChuzpo3HbYpPI93icqeOzJQ): A channel that offers product webcasts, demos, and training.
- ♦ [PlateSpin Transformation Manager Product Resources \(https://www.netiq.com/products/platespin-transformation-manager/resources/\)](https://www.netiq.com/products/platespin-transformation-manager/resources/): A product website that offers white papers and other technical information.
- ♦ [User Community \(https://www.netiq.com/communities/\)](https://www.netiq.com/communities/): A web-based community with a variety of discussion topics.
- ♦ [Support Knowledgebase \(https://www.netiq.com/support/kb/\)](https://www.netiq.com/support/kb/): A collection of in-depth technical articles.

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For specific product issues, contact [Customer Care \(http://www.netiq.com/support\)](http://www.netiq.com/support).

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1 Overview of the Appliance

The PlateSpin Transformation Manager Appliance hosts the PlateSpin Transformation Manager Server software, PostgreSQL database software, and PTM database instance for your transformation projects.

- ♦ [“Benefits of the Appliance” on page 7](#)
- ♦ [“Appliance Requirements” on page 7](#)

Benefits of the Appliance

Delivery of PlateSpin Transformation Manager as an appliance provides the following benefits:

- ♦ **Simple deployment.** The appliance is ready to configure and run on your VMware hypervisor. You do not need to install the operating system, set up prerequisite applications, or configure its databases.
- ♦ **Better performance.** The appliance is built on a specific and tuned version of the SUSE Linux Enterprise Server (SLES) operating system. The appliance includes everything that PlateSpin Transformation Manager needs, and only what it needs. It omits the unneeded applications and services that can consume system resources.
- ♦ **Web-based appliance administration.** The appliance provides a web-based Appliance Management Console that allows you to easily configure only what is required to deploy or manage the appliance in your environment. You do not need to understand the underlying operating system, software, or databases.

If you contact Technical Support with a PlateSpin Transformation Manager support incident, you might be asked to access the Appliance Terminal Console as the `root` user. Your support representative will provide guidance on any required actions. Otherwise, there are no administrative tasks that involve `root` access or the `bash` interface.

- ♦ **Easy update.** You update the appliance by deploying the appliance boot disk for the updated appliance version, and using the existing data disk.

Appliance Requirements

Ensure that your system meets the requirements in this section before you begin the installation of the PlateSpin Transformation Manager Appliance.

- ♦ [“Appliance Host Server” on page 8](#)
- ♦ [“Appliance Management Console” on page 9](#)
- ♦ [“Transformation Manager Web Interface” on page 10](#)
- ♦ [“PlateSpin Migrate Connector” on page 11](#)

Appliance Host Server

You deploy the OVF file for the PlateSpin Transformation Manager Appliance on your virtualization host server.

- ◆ “Virtualization Host Server” on page 8
- ◆ “Virtual Machine” on page 8
- ◆ “Virtual Storage” on page 8

Virtualization Host Server

PlateSpin transformation supports the following virtualization software:

- ◆ **VMware ESXi version 5.5 or higher.** The ESXi host must have a VMware enterprise license.
- ◆ **VMware vSphere Client 5.x or higher.** Use this tool to set up the hypervisor environment for the appliance VM.

Micro Focus recommends setting up NTP (Network Time Protocol) for the Appliance and the host server in accordance with the *VMware Time Keeping Best Practices for Linux Guests (KB 1006427)* (<https://kb.vmware.com/kb/1006427>).

Virtual Machine

The OVF creates a virtual machine. This section describes the VM minimum requirements.

- ◆ **Memory:** The host server must provide a minimum of 4 GB of memory for the virtual machine. This memory configuration is the appliance default.
- ◆ **Processor:** The host server must provide a minimum of 2 vCPUs for the virtual machine. This processor configuration is the appliance default.
- ◆ **IP Address Information:** During the deployment, you must provide the following IP address information for the appliance, including:
 - ◆ Static IP address
 - ◆ Network mask
 - ◆ Gateway IP address
 - ◆ DNS hostname associated with the IP address
 - ◆ IP address of a DNS server
 - ◆ IP address or DNS name of the NTP server

Micro Focus recommends setting up NTP for the VM in accordance with the *VMware Time Keeping Best Practices for Linux Guests (KB 1006427)* (<https://kb.vmware.com/kb/1006427>).

Virtual Storage

You must provide a boot disk and a data disk when you deploy the appliance:

- ◆ **Disk 1 Boot:** The boot partition for the appliance stores the system files, including the guest operating system, all appliance-specific software, and the appliance system event logs that are stored in the `/var` directory. The default size is 20 GB.

- ◆ **Disk 2 /vastorage:** The /vastorage partition stores the PlateSpin Transformation Manager software and PostgreSQL database, the appliance configuration information, and the Ganglia health metrics. You must create and add this virtual disk during the appliance installation. The required size is 20 GB or larger.

Appliance Management Console

Most of your management interaction with the PlateSpin Transformation Manager Appliance takes place through the browser-based PlateSpin Transformation Manager Appliance Management Console.

- ◆ [“Supported Web Browsers” on page 9](#)
- ◆ [“Supported Languages” on page 9](#)
- ◆ [“Ports and Firewalls” on page 9](#)

Supported Web Browsers

PlateSpin Transformation Manager supports the following web browsers for the Appliance Management Console:

- ◆ Google Chrome (latest version)
- ◆ Microsoft Internet Explorer 11
- ◆ Mozilla Firefox (latest version)

NOTE: JavaScript (Active Scripting) must be enabled in your web browser.

Supported Languages

The Appliance Management Console supports English (En) and Japanese (Ja) languages in your web browser. Modify the Language setting in your web browser with your preferred language as the first in the list. For translated Online Help, also set your Language preference on www.netiq.com and allow cookies.

Ports and Firewalls

PlateSpin Transformation Manager communications use the following ports. They are opened by default for the appliance, as noted. Ensure that you open the following ports in all firewalls in your network between the PlateSpin Transformation Manager Appliance and the computers you use to access the appliance.

Table 1-1 Communications Ports for Appliance Management

Component	Port	Description
Appliance Management Console	9443 (HTTPS, secure SSL)	Use this port to securely manage the appliance.

Component	Port	Description
Transformation Manager Database (PostgreSQL)	5432	<p>If you configure a remote PostgreSQL database for the appliance, this port is used by PTM to access to your remote database. PostgreSQL allows TCP traffic, incoming and outgoing. Secure traffic by enabling SSL in the <code>postgresql.conf</code> file on your remote PostgreSQL server.</p> <p>This port is closed by default if the PostgreSQL is installed on the appliance.</p>
SSH	22	<p>You can use SSH to remotely access the appliance to start, stop, or restart it without using a VMware client.</p> <p>SSH is disabled by default. See “Starting, Stopping, or Restarting System Services” on page 25.</p>
Ganglia	8649 (secure, default) 9080 (non-secure)	<p>The Ganglia <code>gmond</code> daemon uses UDP port 8649 for communications.</p> <p>The <code>gmetad</code> daemon uses TCP port 8649 for metrics data.</p> <p>You can enable port 9080 to allow anonymous access to the Ganglia monitoring information. See “View Ganglia Metrics Directly Using Port 9080 (Not Secure)” on page 31.</p>

Transformation Manager Web Interface

PlateSpin Transformation Manager server software is automatically installed on the Appliance. User interaction with the PlateSpin Transformation Manager Server takes place through the browser-based PlateSpin Transformation Manager Web Interface.

- ♦ [“Supported Web Browsers” on page 10](#)
- ♦ [“Supported Languages” on page 11](#)
- ♦ [“Ports and Firewalls” on page 11](#)

Supported Web Browsers

PlateSpin Transformation Manager supports the following web browsers for the PlateSpin Server Web Interface:

- ♦ Google Chrome (latest version)
- ♦ Microsoft Internet Explorer 11
- ♦ Mozilla Firefox (latest version)

NOTE: JavaScript (Active Scripting) must be enabled in your web browser.

Supported Languages

The Web Interface supports English (En) and Japanese (Ja) languages in your web browser. Modify the Language setting in your web browser with your preferred language as the first in the list.

Ports and Firewalls

PlateSpin Transformation Manager communications use the following ports for the PlateSpin Transformation Manager Server. They are opened by default for the Appliance, as noted. Ensure that you open the following ports in all firewalls in your network between the PlateSpin Transformation Manager Appliance and the computers you use to access the PlateSpin Transformation Manager Server.

Table 1-2 Communications Ports for the Transformation Manager Web Interface

Component	Port	Description
Web Interface	8183 (HTTPS, secure SSL)	Port 8183 is enabled by default. It allows TCP traffic, incoming and outgoing.
	8182 (HTTP, non-secure)	NOTE: Micro Focus recommends that you use the secure port and SSL options for accessing the Web Interface. For security reasons, port 8182 is disabled by default. If you enable it, allow TCP traffic, incoming and outgoing.

[Table 1-3](#) shows the protocol and port required for messaging for discovery and automated migration. These messages reflect events and state changes and do not contain sensitive information.

Table 1-3 Event Messaging Requirements for Network Protocols and Ports

Traffic	Network Protocol and Port	Other Requirements
Event Messaging	61613 TCP, incoming (not secure)	This port is open by default on the Transformation Manager Appliance. For automated migration, open this port on the PlateSpin Migrate servers assigned to the project.

PlateSpin Migrate Connector

An instance of the PlateSpin Migrate Connector is automatically installed and configured to work with the PlateSpin Transformation Manager server on the Appliance. User interaction with the PlateSpin Migrate Connector takes place through a configuration file on the Appliance and global settings in the PlateSpin Transformation Manager Web Interface. See [“Configuring PlateSpin Migrate Connector”](#) in the *PlateSpin Migrate Connector Quick Start*.

2 Installing and Configuring the Appliance

PlateSpin Transformation Manager is distributed as an appliance that you deploy on your VMware virtualization host. The appliance includes the PlateSpin Transformation Manager Server software and the PostgreSQL database.

- ♦ “[Downloading the Appliance](#)” on page 13
- ♦ “[Deploying the Appliance and Configuring the Virtual Environment](#)” on page 13
- ♦ “[Configuring the Appliance](#)” on page 15
- ♦ “[Configuring the PlateSpin Transformation Manager Server for the First Time](#)” on page 16
- ♦ “[Post-Installation Tasks](#)” on page 18

Downloading the Appliance

- 1 Download the PlateSpin Transformation Manager Appliance file from the [NetIQ Downloads \(https://dl.netiq.com\)](https://dl.netiq.com) site:

PlatespinTM.x86_64-1.1.0.xxx.ovf.zip, where *xxx* represents the build number.

- 2 Extract the PlatespinTM.x86_64-1.1.0.xxx.ovf.zip file on your management workstation so that the PlatespinTM-version file folder appears.

Extract the file using a third-party extractor; do not use the default Windows extractor.

- 3 Configure the virtualization host server where you will run the appliance. Continue with “[Deploying the Appliance and Configuring the Virtual Environment](#)” on page 13.

Deploying the Appliance and Configuring the Virtual Environment

Use the instructions in this section to prepare your VMware host server for the appliance. Before you begin, ensure that you understand the “[Appliance Requirements](#)” on page 7.

- 1 On the VMware host server, deploy the appliance:
 - 1a In the vSphere client, click **File** > **Deploy OVF Template**.
If the virtualization software you are using does not support .ovf, you must convert the .ovf file to .vmx using the VMware OVF Tool available on the VMware Website.
 - 1b Browse to and select the .ovf file in the PlatespinTM-version file folder, then click **Next**.
 - 1c Review the settings, then click **Next**.
 - 1d In the **Name** field, rename the appliance to a name of your choosing, then click **Next**.
 - 1e Select the datastore (Hard Disk 1, the Boot partition) where you want to store the virtual machine files, then click **Next**.
 - 1f Review the default disk format setting, then click **Next** to accept it.
 - 1g Click **Finish**.
- 2 In the vSphere client, create a separate VMware hard disk (Hard Disk 2) for the appliance.

This hard disk stores your PlateSpin Transformation Manager files. It also stores configuration files that are used for appliance upgrade.

- 2a** In the vSphere client, select the virtualization host where you set up the virtual machine, then click the Virtual Machines tab.
- 2b** Right-click the virtual machine that you just created and for which you want to create secondary storage, then click **Edit Settings**.
- 2c** On the Virtual Machine Properties page, select the Hardware tab, then click **Add**.
- 2d** In the Add Hardware wizard, configure the hard disk.

Page	Action
Device Type	1. Select Hard Disk , then click Next .
Select a Disk	1. Select Create a new virtual disk , then click Next .
Create a Disk	<ol style="list-style-type: none"> 1. In the Capacity section, specify the amount of hard disk space that you want to allocate. See Disk 2 /vastorage for information about minimum disk capacity requirements. 2. In the Disk Provisioning section, select either of the following disk formats, depending on the VMware version that you are running: <ul style="list-style-type: none"> ◆ Thick Provision Eager Zeroed ◆ Support clustering features such as Fault Tolerance 3. In the Location section, select Specify a datastore or datastore cluster, click Browse, select a datastore, then click OK. 4. Click Next.
Advanced Options	<ol style="list-style-type: none"> 1. In the Virtual Device Node section, select SCSI (1:0) from the drop-down list. NOTE: Do not change the controller to VMware Paravirtual at this point of the installation process. You can optionally modify this setting as a post-installation task. See “Change the SCSI Controller to VMware Paravirtual SCSI for Hard Disk 2” on page 18. 2. In the Mode section, select Independent and Persistent. These settings allow the appliance to be updated. 3. Click Next.
Summary	1. Review the specifications you set for the new hard disk, then click Finish .

- 3** Increase the amount of memory that VMware allocates for the appliance.
 - 3a** In the Virtual Machine Properties window, select **Memory**, then increase the setting to a suitable size for your environment.
 - 3b** Click **OK** to exit the Virtual Machine Properties window.
- 4** (Optional) Upgrade the virtual machine hardware version to the latest that your infrastructure can support. To do so, in the vSphere client, right-click the virtual machine that you just created, and for which you want to upgrade the hardware, then click **Upgrade Virtual Hardware**.
- 5** Power on the appliance (virtual machine).
- 6** (Optional) Install VMware Tools on the host server.
- 7** Continue with [“Configuring the Appliance”](#) on page 15.

Configuring the Appliance

After you have downloaded the appliance and successfully deployed the virtual machine in the virtual environment, you are ready to configure the appliance.

- 1 In the vSphere client, power on the appliance.
- 2 Click the **Console** tab.
- 3 After the appliance starts, select your preferred keyboard layout in the **Keyboard Language** drop-down, then accept the license agreement.
- 4 On the Passwords and Time Zone page, specify the following appliance information:

Option	Action
Root password	Type the <code>root</code> user password that you want to set for the appliance, then type it again to confirm it.
Vaadmin password	Type the <code>vaadmin</code> user password that you want to set for the appliance, then type it again to confirm it. The <code>vaadmin</code> user is the preferred identity to use when you log in to the appliance. The <code>vaadmin</code> user name is case sensitive and should use all lowercase letters.
NTP Server	Type the IP address or DNS name of a reliable external Network Time Protocol (NTP) server. For example, <code>time.example.com</code> . For the best results, set up NTP in accordance with the VMware Timekeeping Best Practices for Linux Guests (http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=1006427).
Region	Specify your local region.
Time Zone	Specify your local time zone.

- 5 Click **Next**.
- 6 On the Network Configuration page, specify the following network information:

Option	Action
Hostname	Type the fully qualified DNS host name associated with the appliance IP address. For example, <code>ptm.example.com</code> .
IP address	Type the static IP address for the appliance. For example, <code>10.10.10.10</code> .
Network mask	Type the network mask associated with the appliance IP address. For example, <code>255.255.255.0</code> .
Gateway	Type the IP address of the gateway on the subnet where your appliance is located. For example, <code>10.10.10.254</code> .
DNS servers	Type the IP address of a primary DNS server for your network. For example, <code>10.10.10.1</code> . A secondary DNS server is optional.
Domain search	Type the domain that is associated with the Hostname setting.

- 7 Click **Next**.
- 8 Select the Hard Drive for Hard Disk 2.

The Hard Disk 2 that you created for `/vastorage` is automatically detected and `sdb` is displayed as the hard drive. Accept the defaults for the other options on this page, then click **Next**.

9 Click **Configure**.

The appliance displays a message indicating that the installation was successful. Do not log in at the terminal prompt. Appliance administration requires the Appliance Management Console to configure the appliance settings. Using native Linux tools can result in service disruption or failure.

10 Continue with [“Configuring the PlateSpin Transformation Manager Server for the First Time”](#) on [page 16](#).

Configuring the PlateSpin Transformation Manager Server for the First Time

After you install the PlateSpin Transformation Manager Appliance and configure its network settings, you are ready to configure the PlateSpin Transformation Manager Server for the first time. This configuration process uses a quick wizard that gets your system up and running. You can then make further configuration decisions, as described in [“Post-Installation Tasks”](#) on [page 18](#).

To configure the PlateSpin Transformation Manager Server:

1 After you have installed the appliance, as described in [“Configuring the Appliance”](#) on [page 15](#), navigate to the following URL from a web browser:

```
https://ip_address_or_DNS_name:9443
```

Use the IP address or DNS name of the server that you specified during the appliance installation.

2 Log in to the appliance using the `vaadmin` user and the password that you set.

The appliance takes you directly to the PlateSpin Transformation Manager Server Initial Server Configuration page if it has not been configured yet or if it detects that an update is needed. In these cases, skip [Step 3](#).

3 Click the **Server Configuration** icon.

4 On the Initial Server Configuration page, complete the following information, then click **Submit**.

4a PostgreSQL Database Connection

Use one of the following options:

- ◆ **Local database:** PlateSpin Transformation Manager automatically pre-installs the PostgreSQL database on the appliance. Select **Auto Setup Local Database** to automatically create a database instance, database administrator user, and a password for the user. [Table 2-1](#) shows the default settings.

Table 2-1 PostgreSQL Database Default Values

Parameter	Default Value
Database Host	localhost
Database Port	5432
Create a New Database	Selected
Database Name	transmgr
Database User Name	tadmin

- ◆ **Remote database:** You can alternatively set up the PlateSpin Transformation Manager database as a database instance on an existing PostgreSQL database in your network.
 1. Deselect **Auto Setup Local Database**.
 2. Replace `localhost` with the DNS name or IP address of the host server for the remote PostgreSQL database, and specify the PostgreSQL port.
 3. Specify the credentials of the database administrator user who has the schema rights necessary to create a new instance for the PlateSpin Transformation Manager database.
 4. Specify a name for the PlateSpin Transformation Manager database instance (default: `transmgr`).
 5. Specify the username and password for the database user who will be created as the administrator user (default: `tadmin`) for the PlateSpin Transformation Manager database instance.

4b Initial User Configuration

The initial user for the PlateSpin Transformation Manager Server is the System Administrator user who has all rights for configuration and management throughout the Web Interface.

Provide the full name, a valid email address that is unique to your PlateSpin Transformation Manager environment, and a password for this user.

You cannot delete this user from the Appliance Management Console. You can add another System Administrator user for the PlateSpin Transformation Manager Server if it becomes necessary to replace or augment the initial user account. See [Administrative Users](#).

NOTE: You add and manage other users on the Users page in the PlateSpin Transformation Manager Web Interface. See “[Managing Users](#)” in the *PlateSpin Transformation Manager User Guide*.

4c Web Server Configuration

Micro Focus recommends that you use the secure port 8183 and SSL options for accessing the Web Interface. You can enable or disable the HTTP port 8182 to allow non-secure traffic.

Specify the DNS name for the PlateSpin Transformation Manager Server. It is populated automatically with the DNS address used as the subject of the SSL certificate on the appliance.

- 5 On successful configuration, select one of the following options to continue with “[Post-Installation Tasks](#)” on page 18:
 - ◆ **Appliance Home:** View or set the configuration settings for the appliance. See “[View or Modify Appliance Settings](#)” on page 19.
 - ◆ **Add Certificate:** Add your signed SSL certificate for the appliance. See “[Add a Self-Signed Digital Certificate to the Appliance](#)” on page 18.
 - ◆ **Launch PlateSpin Transformation Manager Web Console:** Open the Web Interface to configure the PTM software or to set up your transformation projects. See the following:
 - ◆ “[Configure the Web Interface](#)” on page 19
 - ◆ “[Configure Transformation Projects](#)” on page 19

Post-Installation Tasks

After you set up the appliance, perform the following post-installation tasks:

- ◆ “[Add a Self-Signed Digital Certificate to the Appliance](#)” on page 18
- ◆ “[Change the SCSI Controller to VMware Paravirtual SCSI for Hard Disk 2](#)” on page 18
- ◆ “[View or Modify Appliance Settings](#)” on page 19
- ◆ “[Configure the Web Interface](#)” on page 19
- ◆ “[Configure Transformation Projects](#)” on page 19

Add a Self-Signed Digital Certificate to the Appliance

The appliance ships with a self-signed digital certificate. The certificate works for both the appliance (port 9443) and the PlateSpin Transformation Manager software (ports 8182 and 8183).

NOTE: This configuration task is optional. For higher security, Micro Focus recommends that you use a trusted server certificate that is signed by a trusted certificate authority (CA) such as VeriSign or Equifax.

You can use your own existing signed certificate, or you can use the Digital Certificate tool on the appliance to create a certificate, have it signed by a trusted certificate authority, and then add it to the appliance. See “[Digital Certificates](#)” on page 26.

Change the SCSI Controller to VMware Paravirtual SCSI for Hard Disk 2

For Hard Disk 2, you can optionally change the SCSI controller to **VMware Paravirtual** (PVSCSI) for Hard Disk 2.

NOTE: This configuration task is optional.

- 1 After the installation is complete, power on the appliance.
- 2 Ensure that the system is running. Log in as the appliance vaadmin user and verify the health of the appliance and services.
- 3 Shut down the appliance.

- 4 In VMware, change the SCSI controller for Hard Disk 2 to **VMware Paravirtual**.
- 5 Power on the appliance.

View or Modify Appliance Settings

After you configure the appliance for the first time, you can view or modify the settings by using the Appliance System Configuration page. See [Chapter 3, “Managing the Appliance,”](#) on page 21.

Configure the Web Interface

Use the PlateSpin Transformation Manager Web Interface to configure and manage the software. See the following in the *PlateSpin Transformation Manager User Guide*:

- ◆ [“Accessing the Web Interface”](#)
- ◆ [“Managing Licenses”](#)
- ◆ [“Configuring Operating Systems”](#)

Configure Transformation Projects

Use the PlateSpin Transformation Manager Web Interface to plan, manage, and execute your transformation projects. See the following in the *PlateSpin Transformation Manager User Guide*:

- ◆ [“Users”](#)
- ◆ [“Planning”](#)
- ◆ [“Workloads”](#)
- ◆ [“Resources”](#)

3 Managing the Appliance

The PlateSpin Transformation Manager Appliance is the virtual machine that hosts the PlateSpin Transformation Manager Server and its database. You can use the Appliance Management Console to change certain configuration settings for the appliance, such as administrative passwords for the `vaadmin` user and `root` user, network settings, and certificate settings. You should perform these tasks only from the Console, because native Linux tools are not aware of the configuration requirements and dependencies of the PlateSpin Transformation Manager services.

To access the Appliance Management Console:

- 1 In a web browser, specify the DNS name or the IP address for the appliance with the port number 9443.
`https://<ptm-ipaddr-or-dns-name>:9443`
For example:
`https://10.10.10.1:9443`
or
`https://ptm.example.com:9443`
- 2 Specify the administrative username and password for the appliance, then click **Sign in**. The default users are `vaadmin` or `root`.
- 3 (Conditional) The Appliance Management Console automatically displays one of the following PlateSpin Transformation Manager options if it detects the stated condition:
 - ♦ **Initial Configuration:** The [Initial Configuration](#) tool opens if the PlateSpin Transformation Manager Server has not been configured. You must complete the initial setup before you can manage the appliance or the PlateSpin Transformation Manager Server.
 - ♦ **Upgrade:** The [Upgrade](#) tool opens if the RPM files for PlateSpin Transformation Manager or the guest operating system have been upgraded. You must complete the upgrade before you can manage the appliance or the PlateSpin Transformation Manager Server.
- 4 Continue using the Appliance Configuration tools.

The Appliance System Configuration page displays the following options:

- ♦ [Administrative Passwords](#)
- ♦ [Network](#)
- ♦ [Time](#)
- ♦ [System Services](#)
- ♦ [Digital Certificates](#)
- ♦ [Firewall](#)
- ♦ [Ganglia Configuration and Monitoring](#)
- ♦ [Storage](#)
- ♦ [/var Mount Configuration](#)
- ♦ [Support](#)
- ♦ [Field Patch](#)
- ♦ [Online Update](#)

- ◆ [Reboot or Shutdown](#)
- ◆ [Logout](#)
- ◆ [Configuring Proxy Client Settings](#)

Administrative Passwords

Use the Administrative Passwords tool to modify the passwords and SSH access permissions for the appliance administrators: the `vaadmin` user and the `root` user. You might need to modify passwords periodically in keeping with your password policy, or if you reassign responsibility for the appliance administration to another person.



The `vaadmin` user can use the Administrative Passwords page to perform the following task:

- ◆ Modify the `vaadmin` user password. To change a password, you must be able to provide the old password.
- ◆ The `vaadmin` user automatically has permissions necessary to remotely access the appliance with SSH instead of using a VMware client. The SSH service must be enabled and running to allow SSH access.

NOTE: The SSH service is disabled and is not running by default. For information about how to start SSH on the appliance, see [“System Services” on page 24](#).

The `root` user can use the Administrative Passwords page to perform the following tasks:

- ◆ Modify the `root` user password. To change a password, you must be able to provide the old password.
- ◆ Enable or disable (default) `root` user SSH access to the appliance.

When this option is selected, the `root` user is able to SSH to the appliance. If this option is deselected, only the `vaadmin` user can SSH to the appliance, and the `root` user cannot SSH even if the `sshd` service is running.

To manage the administrative access as the `vaadmin` user:

- 1 [Log in](#) to the Appliance Management Console as the `vaadmin` user.
- 2 Click **Administrative Passwords** .
- 3 Specify a new password for the `vaadmin` administrator. You must also specify the current `vaadmin` password.
- 4 Click **OK**.

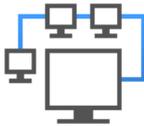
To manage the administrative access as the `root` user:

- 1 [Log in](#) to the Appliance Management Console as the `root` user.
- 2 Click **Administrative Passwords** .

- 3 Specify a new password for the `root` administrator. You must also specify the current `root` password.
- 4 (Optional) Select or deselect **Allow root access to SSH**. It is deselected by default.
- 5 Click **OK**.

Network

Use the Network tool to configure settings for the DNS servers, search domains, gateway, and NICs for the appliance. You might need to modify these settings after the initial setup if you move the appliance VM to a new host server, or move the host server to a new domain in your network environment. You can also optionally restrict the networks that are allowed to access the appliance.



To configure network settings for the appliance:

- 1 **Log in** to the Appliance Management Console as the `vaadmin` user.
- 2 Click **Network** .
- 3 In the **DNS Configuration** section, you can modify the DNS name servers, search domains, and gateway settings for your appliance network.

If the **Search Domains** field is left blank, it is auto-populated with the domain of the appliance hostname. For example, if the hostname of the appliance is `ptm.mycompany.com`, the domain is auto-populated with `mycompany.com`.
- 4 In the **NIC Configuration** section, you can modify the IP address, hostname, and network mask of any NIC associated with the appliance.
 - 4a Click the ID of the NIC.
 - 4b Edit the IP address, hostname, or network mask for the selected NIC.
 - 4c Click **OK**.
 - 4d Repeat these steps for each NIC that you want to configure.
- 5 (Optional) In the **Appliance Administration UI (port 9443) Access Restrictions** section, do one of the following:
 - ◆ Specify the IP address of each network for which you want to allow access to the appliance. Only the listed networks are allowed.
 - ◆ Leave this section blank to allow any network to access the appliance.

NOTE: After you configure the appliance, changes to your appliance network environment can impact the appliance communications.

- 6 Click **OK**.

Time

Use the Time tool to configure the Network Time Protocol (NTP) server, the geographic region, and the time zone where you have deployed the appliance.



To configure time parameters for the appliance:

- 1 [Log in](#) to the Appliance Management Console as the `vaadmin` user.
- 2 Click **Time** .
- 3 Change the following time configuration options as appropriate:
 - NTP Server:** Specify the NTP server that you want to use for time synchronization.
 - Region:** Select the geographic region where your appliance is located.
 - Time Zone:** Select the time zone where your appliance is located.
- 4 Click **OK**.

System Services

Use the System Services tool to view the status of services running on the appliance, or performs on them. System services include the following:

- ♦ SSH
- ♦ Jetty
- ♦ PostgreSQL
- ♦ PlateSpin Transformation Manager
- ♦ PlateSpin Migrate Connector for PTM



To access the System Services page:

- 1 [Log in](#) to the Appliance Management Console as the `vaadmin` user.
- 2 Click **System Services** .

You can perform the following actions:

- ♦ [“Starting, Stopping, or Restarting System Services” on page 25](#)
- ♦ [“Making System Services Automatic or Manual” on page 25](#)

- ◆ “[Downloading Log Files for System Services](#)” on page 25
- ◆ “[Enabling or Disabling the SSH Service](#)” on page 26

Starting, Stopping, or Restarting System Services

You might want to start, stop, or restart the SSH, Jetty, PostgreSQL, or PlateSpin Transformation Manager services.

For example, if you create a custom theme for the PTM Web Interface, you will enable and disable SSH and restart PlateSpin Transformation Manager as part of the setup process.

To start, stop, or restart a service on the appliance:

- 1 Click **System Services** .
- 2 Select the service that you want to start, stop, or restart.
- 3 Click **Action**, then select **Start**, **Stop**, or **Restart**.
- 4 Click **Close** to exit System Services.

Making System Services Automatic or Manual

- 1 Click **System Services** .
- 2 Select the service that you want to make automatic or manual.
- 3 Click **Options**, then select either **Set as Automatic** or **Set as Manual**.
- 4 Click **Close** to exit System Services.

Downloading Log Files for System Services

If you experience an issue with the Web Interface, you might need to download the log files to send them to Technical Support.

- 1 Click **System Services** .
- 2 In the **Log Files** column, click the **download** link for the appropriate service to download the log files to your management workstation:
 - SSH:** The SSH service that is running on the appliance has no relevant log files for download.
 - Jetty:** Downloads the `jetty.stderrout.log` file.
 - PostgreSQL:** The database for the PlateSpin Transformation Manager product has no relevant log files for download.
 - PlateSpin Transformation Manager:** Collects, zips, and downloads the following log files:
 - ◆ `tm_server.log`
 - ◆ `platespin-transformmgr.out`
 - ◆ `platespin_transformmgr_config.log`
 - PlateSpin Migrate Connector for PTM:** Collects, zips, and downloads the following log files:
 - ◆ `migrate_connector.log`
 - ◆ `platespin-migrate-connector.out`
- 3 Click **Close** to exit System Services.

Enabling or Disabling the SSH Service

To enable the SSH service on the Appliance VM:

- 1 Log in to the Appliance Management Console as the `vaadmin` user, then click **System Services**.
- 2 Select the SSH service.
- 3 Select **Action > Start**.
- 4 Click **Options**, then select either **Set as Automatic** or **Set as Manual**.
- 5 Click **Close** to exit System Services.
- 6 Log out of the Appliance Management Console, then close your web browser.
- 7 From your computer, start an SSH session and log in as the `vaadmin` user or `root` user to the user appliance.

To disable the SSH service on the Appliance VM:

- 1 Exit any open SSH sessions.
- 2 Log in to the Appliance Management Console as the `vaadmin` user, then click **System Services**.
- 3 Select the SSH service.
- 4 Select **Action > Stop**.
- 5 Click **Close** to exit System Services.
- 6 Log out of the Appliance Management Console, then close your web browser.

Digital Certificates

Use the Digital Certificates tool to add and activate certificates for the appliance. You can use the digital certificate tool to create your own certificate and then have it signed by a CA, or you can use an existing certificate and key pair if you have one that you want to use.



NOTE: The appliance ships with a self-signed digital certificate. Instead of using this self-signed certificate, Micro Focus recommends that you use a trusted server certificate that is signed by a trusted certificate authority (CA) such as VeriSign or Equifax.

The certificate works for both the appliance (port 9443) and the PlateSpin Transformation Manager Web Interface (ports 8182 and 8183). You do not need to update your certificate when you update the software.

Complete the following sections to change the digital certificate for your appliance:

- ♦ [“Using the Digital Certificate Tool” on page 27](#)
- ♦ [“Using an Existing Certificate and Key Pair” on page 28](#)
- ♦ [“Activating the Certificate” on page 28](#)

Using the Digital Certificate Tool

- ♦ [“Creating a New Self-Signed Certificate” on page 27](#)
- ♦ [“Getting Your Certificate Officially Signed” on page 27](#)

Creating a New Self-Signed Certificate

- 1 [Log in](#) to the Appliance Management Console as the `vaadmin` user.
- 2 Click **Digital Certificates** .
- 3 In the **Key Store** drop-down list, ensure that **Web Application Certificates** is selected.
- 4 Click **File > New Certificate (Key Pair)**, then specify the following information:
 - 4a **General**
 - Alias:** Specify a name that you want to use to identify and manage this certificate.
 - Validity (days):** Specify how long you want the certificate to remain valid.
 - 4b **Algorithm Details**
 - Key Algorithm:** Select either **RSA** or **DSA**.
 - Key Size:** Select the desired key size.
 - Signature Algorithm:** Select the desired signature algorithm.
 - 4c **Owner Information**
 - Common Name (CN):** This must match the server name in the URL in order for browsers to accept the certificate for SSL communication.
 - Organizational Unit (OU):** (Optional) Small organization name, such as a department or division. For example, Purchasing.
 - Organization (O):** (Optional) Large organization name. For example, Micro Focus.
 - City or Locality (L):** (Optional) City name. For example, Provo.
 - State or Province (ST):** (Optional) State or province name. For example, Utah.
 - Two-letter Country Code (C):** (Optional) Two-letter country code. For example, US.
- 5 Click **OK** to create the certificate.

After the certificate is created, it is self-signed.
- 6 Make the certificate official, as described in [“Getting Your Certificate Officially Signed” on page 27](#).

Getting Your Certificate Officially Signed

- 1 On the Digital Certificates page, select the certificate that you just created, then click **File > Certificate Requests > Generate CSR**.
- 2 Complete the process of emailing your digital certificate to a certificate authority (CA), such as Verisign.

The CA takes your Certificate Signing Request (CSR) and generates an official certificate based on the information in the CSR. The CA then mails the new certificate and certificate chain back to you.

- 3 After you have received the official certificate and certificate chain from the CA:
 - 3a Revisit the Digital Certificates page.
 - 3b Click **File > Import > Trusted Certificate**. Browse to the trusted certificate chain that you received from the CA, then click **OK**.
 - 3c Select the self-signed certificate, then click **File > Certification Request > Import CA Reply**.
 - 3d Browse to and upload the official certificate to be used to update the certificate information.
On the Digital Certificates page, the name in the **Issuer** column for your certificate changes to the name of the CA that stamped your certificate.
- 4 Activate the certificate, as described in [“Activating the Certificate” on page 28](#).

Using an Existing Certificate and Key Pair

When you use an existing certificate and key pair, use a .P12 key pair format.

- 1 [Log in](#) to the Appliance Management Console as the `vaadmin` user.
- 2 Click **Digital Certificates** .
- 3 In the **Key Store** drop-down menu, select **JVM Certificates**.
- 4 Click **File > Import > Trusted Certificate**. Browse to and select your existing certificate, then click **OK**.
- 5 Click **File > Import > Trusted Certificate**. Browse to and select your existing certificate chain for the certificate that you selected in [Step 4](#), then click **OK**.
- 6 Click **File > Import > Key Pair**. Browse to and select your .P12 key pair file, specify your password if needed, then click **OK**.
- 7 Continue with [“Activating the Certificate” on page 28](#).

Activating the Certificate

- 1 On the Digital Certificates page, in the **Key Store** drop-down menu, select **Web Application Certificates**.
- 2 Select the certificate that you want to make active, click **Set as Active**, then click **Yes**.
- 3 Verify that the certificate and the certificate chain were created correctly by selecting the certificate and clicking **View Info**.
- 4 When you successfully activate the certificate, click **Close** to exit Digital Certificates.

Firewall

Use the Firewall tool to view your current firewall configuration directly from the appliance. By default, all ports are blocked except those needed by the appliance. For example, the Login page for the Appliance Management Console uses port 9443, so this port is open by default.



NOTE: To have a seamless experience with the appliance, ensure that you do not block the ports with your firewall settings. See [“Ports and Firewalls” on page 9](#).

To view firewall settings for the appliance:

- 1 [Log in](#) to the Appliance Management Console as the `vaadmin` user.
- 2 Click **Firewall** .
The Firewall page lists port numbers with the current status of each port number. The page is for informational purposes and is not editable.
- 3 Click **Close** to exit the Firewall page

Ganglia Configuration and Monitoring

Ganglia is a scalable, distributed monitoring system that allows you to gather important information about your appliance. The default metrics that you can monitor are CPU, disk, load, memory, network, and process.

- ♦ [“Configure Ganglia” on page 29](#)
- ♦ [“View Ganglia Metrics Using the Appliance Management Console Port 9443 \(Secure\)” on page 30](#)
- ♦ [“View Ganglia Metrics Directly Using Port 9080 \(Not Secure\)” on page 31](#)

Configure Ganglia

Use the Ganglia Configuration tool to configure monitoring for the appliance. The Ganglia `gmond` daemon uses UDP port 8649 for communications. The `gmetad` daemon uses TCP port 8649 for metrics data. You can also enable or disable non-secure HTTP viewing of the metrics on port 9080.



- 1 [Log in](#) to the Appliance Management Console as the `vaadmin` user.
- 2 Click **Ganglia Configuration** .
- 3 As appropriate, change the following Ganglia configuration options:

Monitoring Services

- ♦ **Enable Full Monitoring Services:** Select this option to receive and store metrics from other appliances, and to allow the Ganglia Web Interface to run on the appliance. This option is enabled by default.

You might want to disable Ganglia monitoring by deselecting this option:

- ♦ If you already have a monitoring system that you plan to use for the appliance.

- ◆ If you plan to configure a dedicated appliance for viewing monitoring information. You specify a dedicated appliance by selecting **Unicast** under Monitoring Options, and then specifying the DNS name or IP address of the appliance that collects the monitoring information.

Monitoring Options

- ◆ **Enable monitoring on this appliance:** Select this option to enable Ganglia monitoring on this appliance.
 - ◆ **Multicast:** Select this option to send monitoring information to other appliances on the network. This option is selected by default.
 - ◆ **Unicast:** (Recommended) Select this option to send monitoring information to a single destination.

NOTE: Unicast mode is recommended for improving performance of the system.

Publish to: Specify the URL where Ganglia sends monitoring information when it is running in Unicast mode.

Monitoring Tool Options

- ◆ **Enable direct http port 9080 access:** Select this option to enable the Ganglia Monitoring dashboard to be available directly at the following URL using the non-secure http protocol and port 9080:

`http://ptm_dns_server_name:9080/gweb/`

- 4 (Optional) Click **Reset Database** to remove all existing Ganglia metrics from the Ganglia database on this appliance.

This option is not related to the PlateSpin Transformation Manager database.

- 5 Click **OK**.
- 6 Click **Close** to exit Ganglia Configuration.

View Ganglia Metrics Using the Appliance Management Console Port 9443 (Secure)

Use the Ganglia Monitoring tool to securely view the Ganglia Dashboard in the Appliance Management Console using port 9443. The dashboard displays the health and status metrics for the appliance.



- 1 **Log in** to the Appliance Management Console as the `vaadmin` user.
- 2 Click **Ganglia Monitoring** .

The Ganglia Dashboard opens in a new tab to the following web page:

https://ptm_dns_server_name:9443/gweb/

- 3 When you are done viewing information, close the Ganglia tab in your web browser.

View Ganglia Metrics Directly Using Port 9080 (Not Secure)

- 1 Ensure that you have enabled **Monitoring Tool Options > Enable direct http port 9080 access**.
- 2 In a web browser, go to the following URL:
http://ptm_dns_server_name:9080/gweb/
No login is required.
- 3 When you are done viewing information, close your web browser.

Storage

Use the Storage tool to expand the storage space for the Boot partition (Hard Disk 1) and the `/vastorage` (virtual appliance storage) partition (Hard Disk 2) that you created in “[Deploying the Appliance and Configuring the Virtual Environment](#)” on page 13. You can also expand the `/var` partition if you created a separate disk for the log files.



To expand the size of an appliance disk partitions:

- 1 [Log in](#) to the Appliance Management Console as the `vaadmin` user.
- 2 Click **Storage** .
- 3 Use the tools provided by your virtualization platform vendor to expand the virtual disks that contain the partitions you are expanding.
- 4 In the virtual disks table, select the partitions to be expanded.
- 5 Click **Expand partitions**.
This action stops the appliance services, expands the selected partitions to the size of their respective disks, and restarts appliance services.
- 6 [Restart the appliance](#) so the operating system can detect the disks that have been expanded.

/var Mount Configuration

Use the /var Mount Configuration tool to configure the location of the /var directory if you move it to a separate hard disk on the appliance or to a remote NFS directory. By default, the appliance logs its system events in the /var directory on the Boot partition (Hard Disk 1). Because the /var directory can fill up with log files and cause the Boot partition to grow, you can locate the /var directory on a separate dedicated hard disk on the appliance, or on a dedicated remote NFS directory.



To move the /var directory to a dedicated disk or to a remote NFS directory:

- 1 Use the VMware vSphere client to create a virtual disk and assign it to the appliance's virtual machine.
- 2 [Log in](#) to the Appliance Management Console as the `vaadmin` user.
- 3 Click **/var Mount Configuration** .
- 4 Specify the hard disk information for the /var directory:
 - ♦ **Select disk:** Select the hard disk where you want to place the /var directory.
 - ♦ **File system type:** Specify the type of file system.
- 5 Click **OK**.

Support

Use the Support tool to send configuration information to [Technical Support \(https://www.netiq.com/support/\)](https://www.netiq.com/support/) by uploading files directly with FTP, or by downloading the files to your management workstation and sending them by an alternative method.



To send configuration files to Technical Support:

- 1 [Log in](#) to the Appliance Management Console as the `vaadmin` user.
- 2 Click **Support** .

- 3 Use one of the following methods to send the appliance's configuration files to [Technical Support](https://www.netiq.com/support/) (<https://www.netiq.com/support/>):
 - ♦ Select **Automatically send the configuration to Micro Focus using FTP** to initiate the FTP transfer of configuration information.
 - ♦ Select **Download and save the configuration file locally, then send it to Micro Focus manually** to download configuration information to your management workstation. You can then send the information to [Technical Support](https://www.netiq.com/support/) (<https://www.netiq.com/support/>) using a method of your choice.
- 4 Click **OK** to complete the process.

Field Patch

Use the Field Patch option to manage patches for Transformation Manager Server software, patches for the PlateSpin Migrate Connector software for the installed instance, and security patches for the software and operating system. You can install new patches, view currently installed patches, and uninstall patches. You can download patches from the [Patch Finder website](https://dl.netiq.com/patch/finder/) (<https://dl.netiq.com/patch/finder/>).



To manage patches:

- 1 **Log in** to the Appliance Management Console as the `vaadmin` user.
- 2 Click **Field Patch** .
- 3 (Conditional) Install a downloaded patch:
 - 3a Download the PlateSpin Transformation Manager patch file from the [Patch Finder website](https://dl.netiq.com/patch/finder/) (<https://dl.netiq.com/patch/finder/>) to your management computer.
 - 3b On the Field Patch page in the **Install a Downloaded Patch** section, click **Browse**.
 - 3c Browse to and select the patch that you downloaded in [Step 3a](#).
 - 3d Click **Install**.
- 4 (Conditional) Uninstall a patch:

You might not be able to uninstall some patches.

 - 4a In the **Patch Name** column of the Field Patch list, select the patch that you want to uninstall.
 - 4b Click **Uninstall Latest Patch**.
- 5 (Conditional) Download a log file that includes details about the patch installation.
 - 5a Click **Download Log File** for the appropriate patch.
- 6 Click **Close** to exit the Field Test Patch page.

Online Update

Use the Online Update option to register for the online update service from the [Customer Center](https://www.netiq.com/customercenter) (<https://www.netiq.com/customercenter>). You can alternatively register with a Local Subscription Management Tool (SMT) server from which you can download software updates. You can install updates automatically or manually to update the Appliance.

Use the Online Update option to manage product updates for Transformation Manager Server software, product updates for the PlateSpin Migrate Connector software for the installed instance, and security updates for the software and operating system.



To activate the Update Channel, you use the same Full License key that you used to activate the product. An Evaluation key will not activate the channel.

To register for the Online Update Service:

- 1 [Log in](#) to the Appliance Management Console as the `vaadmin` user.
- 2 Click **Online Update** .
- 3 If the Registration dialog does not open automatically, click the **Register** tab.
- 4 Specify the **Service Type**:
 - ◆ Local SMT (Go to [Step 5.](#))
 - ◆ Customer Center (Go to [Step 6.](#))
- 5 (Local SMT) Specify the following information for the SMT server, then continue with [Step 7.](#)
 - ◆ Hostname such as `smt.example.com`
 - ◆ (Optional) SSL certificate URL that communicates with the SMT server
 - ◆ (Optional) Namespace path of the file or directory
- 6 (Customer Center) Specify the following information about the [Customer Center](https://www.netiq.com/customercenter) (<https://www.netiq.com/customercenter>) account for this PlateSpin Transformation Manager Appliance:
 - ◆ Email address of the account in Customer Center
 - ◆ Activation key (the same Full License key that you used to activate the product)
 - ◆ Allow data send (select any of the following)
 - ◆ Hardware Profile
 - ◆ Optional information
- 7 Click **Register**.

Wait while the appliance registers with the service.
- 8 Click **OK** to dismiss the confirmation.

After you have registered the appliance, you can view a list of the needed updates, or view a list of installed updates. You can use manual or automatic options to update the appliance.

To perform other actions after registration:

- ◆ **Update Now:** Click **Update Now** to trigger downloaded updates.
- ◆ **Schedule:** Configure the type of updates to download and whether to automatically agree with the licenses.

To schedule online update:

1. Click the **Schedule** tab.
 2. Select a schedule for download updates (**Manual, Daily, Weekly, Monthly**).
- ◆ **View Info:** Click **View Info** to display a list of installed and downloaded software updates.
 - ◆ **Refresh:** Click **Refresh** to reload the status of updates on the Appliance.

Reboot or Shutdown

You might need to initiate a graceful shut down or to restart the appliance for maintenance. Using the Appliance Management Console options is preferred over using a Power Off/On option in the hypervisor's VM management tool.

- 1 **Log in** to the Appliance Management Console as the `vaadmin` user.
- 2 In the upper right corner of the Appliance Configuration pane, click **Reboot** or click **Shutdown**.

Logout

For security reasons, you should sign out to exit your management session with the appliance, then close your web browser. Your session terminates automatically when you close your web browser.

To sign out of the Appliance Management Console:

- 1 In the upper-right corner of the Appliance Management Console page, next to the user name, click **Logout**.
- 2 Close the web browser.

Configuring Proxy Client Settings

If you have a Proxy Server in your environment, you can enable PlateSpin Transformation Manager to use that server for Internet communications by configuring the Proxy client settings on the PlateSpin Transformation Manager Appliance and host servers of PlateSpin Migrate Connector instances. The Proxy client informs applications of the Proxy Server URL and credentials to use (if you specify them). It does not affect how the applications communicate with the server.

- ◆ [“Configuring Proxy Client Settings for the PTM Appliance” on page 36](#)
- ◆ [“Configuring Proxy Client Settings for Migrate Connector Hosts” on page 38](#)

Configuring Proxy Client Settings for the PTM Appliance

You can enable the PlateSpin Transformation Manager Appliance to work with the Proxy Server in your environment. Log in to the Appliance via SSH, then use YaST to configure the Internet proxy client settings that the Appliance, Web Interface, and PlateSpin Migrate Connector instance will use for HTTP and HTTPS communications.

To configure Proxy client settings on the Appliance:

- 1 Enable the SSH protocol on the Appliance.
 - 1a In a web browser, log in to the Appliance Management Console as the `vaadmin` user.
`https://<ptm-ipaddr-or-dns-name>:9443`
 - 1b Click **System Services** .
 - 1c Select the SSH service.
 - 1d Select **Action > Start**.
 - 1e Click **Close** to exit System Services.
 - 1f Log out of the Appliance Management Console, then close your web browser.
- 2 Configure the Proxy client settings needed to access your Proxy Server:
 - 2a From your computer, start an SSH session for `ptm-ipaddr-or-dns-name` on port 22, then log in as the `root` user to the Appliance.
You can use any SSH tool, such as [Putty \(http://www.putty.org/\)](http://www.putty.org/).
 - 2b At the terminal prompt, enter

```
yast
```

```
login as: root
Using keyboard-interactive authentication.
Password:
Last login: Wed May 10 20:23:23 2017
bgarrett9:~ # yast
bgarrett9:~ # █
```


FTP Proxy URL: The URL (with hostname and port number) of the Proxy Server used for access to the file transfer services (FTP). For example: `https://ftp.proxy.example.com:2121/`

Use the Same Proxy for All Protocols: Enable this option and provide a single URL in **HTTP Proxy URL** that will be used as the Proxy Server for HTTP, HTTPS, and FTP communications.

No Proxy Domains: Specify a comma-separated list of domains for which requests should be made directly without caching. The default is `localhost`.

Proxy User Name and Proxy Password: Provide the credentials for your Proxy Server if it requires authorization.

- 2f (Optional) Tab to **Test Proxy Settings**, then press Enter.
- 2g Tab to **OK**, then press Enter to save and apply the settings.
- 2h Tab to **Quit**, then press Enter to exit YaST.
- 2i At the terminal prompt, enter `exit` to close the SSH session.
- 3 Disable the SSH protocol on the Appliance.
 - 3a In a web browser, log in to the Appliance Management Console as the `vaadmin` user.
`https://<ptm-ipaddr-or-dns-name>:9443`
 - 3b Click **System Services** .
 - 3c Select the SSH service.
 - 3d Select **Action > Stop**.
 - 3e Click **Close** to exit System Services.
 - 3f Log out of the Appliance Management Console, then close your web browser.

Configuring Proxy Client Settings for Migrate Connector Hosts

You can enable the PlateSpin Migrate Connector host servers to work with the Proxy Server in your environment. On SUSE Linux Enterprise Server (SLES) servers that host an instance of Migrate Connector, log in to the desktop and use YaST2 to configure the Internet proxy client settings that the Connector instance will use for HTTP and HTTPS communications.

To configure Proxy client settings on SLES servers that host a Migrate Connector instance:

- 1 Log in as the `root` user to the desktop on the SLES server.
- 2 Start the YaST Control Center from the main menu. Provide the `root` user password if you are prompted for it.
To start the YaST Control Center from the command line, open a terminal, then enter `yast2`.
- 3 Select **Network Services**, then select **Proxy**.
- 4 Configure the Proxy settings by using the information for your Proxy Server. Provide the URL for the Proxy Server for HTTP and HTTPS communications.

HTTP Proxy URL: The URL (with hostname and port number) of the Proxy Server used for non-secure access to the Internet. For example: `http://proxy1.example.com:3126/`

HTTPS Proxy URL: The URL (with hostname and port number) of the Proxy Server used for secure access to the Internet. For example: `https://proxy2.example.com:3128/`

FTP Proxy URL: The URL (with hostname and port number) of the Proxy Server used for access to the file transfer services (FTP). For example: `https://ftp.proxy3.example.com:2121/`

Use the Same Proxy for All Protocols: Enable this option and provide a single URL in **HTTP Proxy URL** that will be used as the Proxy Server for HTTP, HTTPS, and FTP communications.

No Proxy Domains: Specify a comma-separated list of domains for which requests should be made directly without caching. The default is `localhost`.

Proxy User Name and Proxy Password: Provide the credentials for your Proxy Server if it requires authorization.

- 5 Click **Test Proxy Settings**.
- 6 Click **Finish** to save and apply the settings.
- 7 Exit YaST.
- 8 Log out of the server.

4 Configuring the PlateSpin Transformation Manager Server

The PlateSpin Transformation Manager Appliance provides additional tools to manage the PlateSpin Transformation Manager Server that it hosts.



To access the PlateSpin Transformation Manager Tools:

- 1 In a web browser, specify the DNS name or the IP address for the appliance with the port number 9443. For example:

`https://10.10.10.1:9443`

or

`https://ptm.example.com:9443`

- 2 Specify the administrative username and password for the appliance, then click **Sign in**. The default users are `vaadmin` or `root`.

- 3 Under **PlateSpin Transformation Manager Tools**, click **Configuration** .

- 4 (Conditional) The Appliance Management Console automatically opens the following PlateSpin Transformation Manager Tools if it detects the stated condition:

- ♦ **Initial Configuration:** The [Initial Configuration](#) tool opens if the PlateSpin Transformation Manager Server has not been configured. You must complete the initial setup before you can manage the appliance or the PlateSpin Transformation Manager Server.
- ♦ **Upgrade:** The [Upgrade](#) tool opens if the RPM files for PlateSpin Transformation Manager or the guest operating system have been upgraded. You must complete the upgrade before you can manage the appliance or the PlateSpin Transformation Manager Server.

- 5 Continue using the PlateSpin Transformation Manager Server Tools.

The PlateSpin Transformation Manager Tools page displays the following options:

- ♦ [“Initial Configuration” on page 42](#)
- ♦ [“Administrative Users” on page 43](#)
- ♦ [“Web Server Configuration” on page 44](#)
- ♦ [“Upgrade” on page 44](#)
- ♦ [“Web Interface Session Timeout” on page 44](#)

Initial Configuration

You can configure or reconfigure the PlateSpin Transformation Manager Server settings. You can use the [Administrative Users](#) tool and the [Web Server Configuration](#) tool to modify the application settings without losing any data.

NOTE: A reconfiguration restores the PlateSpin Transformation Manager application and its PostgreSQL database to their initial state. All data is lost.

- 1 [Log in](#) to the Appliance Management Console as the `vaadmin` user.
- 2 Under **PlateSpin Transformation Manager Tools**, click **Configuration** .
- 3 On the PlateSpin Transformation Manager Configuration page, select **Initial Configuration**.
- 4 Select one of the following:
 - ♦ **Server Configuration:** This option is available if the PlateSpin Transformation Manager application is not configured.
 - ♦ **Overwrite Configuration:** This option is available if the PlateSpin Transformation Manager application is already configured. Select this option only if you want to overwrite the existing configuration settings and delete all project data.
- 5 Complete the configuration information.

5a PostgreSQL Database Connection

Use one of the following options:

- ♦ **Local database:** PlateSpin Transformation Manager automatically pre-installs the PostgreSQL database on the appliance. Select **Auto Setup Local Database** to automatically create a database instance, database administrator user, and a password for the user. [Table 4-1](#) shows the default settings.

Table 4-1 PostgreSQL Database Default Values

Parameter	Default Value
Database Host	localhost
Database Port	5432
Create a New Database	Selected
Database Name	transmgr
Database User Name	tmadmin

- ♦ **Remote database:** You can alternatively set up the PlateSpin Transformation Manager database as a database instance on an existing PostgreSQL database in your network.
 1. Deselect **Auto Setup Local Database**.
 2. Replace `localhost` with the DNS name or IP address of the host server for the remote PostgreSQL database, and specify the PostgreSQL port.
 3. Specify the credentials of the database administrator user who has the schema rights necessary to create a new instance for the PlateSpin Transformation Manager database.

4. Specify a name for the PlateSpin Transformation Manager database instance (default: `transmgr`).
5. Specify the username and password for the database user who will be created as the administrator user (default: `tmadmin`) for the PlateSpin Transformation Manager database instance.

5b Initial User Configuration

The initial user for the PlateSpin Transformation Manager Server is the System Administrator user who has all rights for configuration and management throughout the Web Interface.

Provide the full name, a valid email address that is unique to your PlateSpin Transformation Manager environment, and a password for this user.

You cannot delete this user from the Appliance Management Console. You can add another System Administrator user for the PlateSpin Transformation Manager Server if it becomes necessary to replace or augment the initial user account. See [Administrative Users](#).

NOTE: You add and manage other users on the Users page in the PlateSpin Transformation Manager Web Interface. See “[Managing Users](#)” in the *PlateSpin Transformation Manager User Guide*.

5c Web Server Configuration

Micro Focus recommends that you use the secure port 8183 and SSL options for accessing the Web Interface. You can enable or disable the HTTP port 8182 to allow non-secure traffic.

Specify the DNS name for the PlateSpin Transformation Manager Server. It is populated automatically with the DNS address used as the subject of the SSL certificate on the appliance.

- 6 Click **Submit**.

Administrative Users

You might need to add a new System Administrator user to the PlateSpin Transformation Manager Server if you forget the initial username and password, or if that initial user is no longer available to manage the server. The new user has the same global privileges as the default System Administrator user that was created for the PlateSpin Transformation Manager Web Interface during the installation.

NOTE: In the Web Interface, the default System Administrator can set up additional users and assign them to the Administrators group. Members of the Administrators group will also have global permissions in the Web Interface.

- 1 [Log in](#) to the Appliance Management Console as the `vaadmin` user.
- 2 Under **PlateSpin Transformation Manager Tools**, click **Configuration** .
- 3 On the PlateSpin Transformation Manager Configuration page, select **Administrative Users**.
- 4 Provide the full name, a valid email address that is unique to your PlateSpin Transformation Manager environment, and a password for this user.
- 5 Click **Submit**.

Web Server Configuration

The administrative users of the PlateSpin Transformation Manager Appliance can reconfigure the Jetty WebServer HTTPS and HTTP ports for the Web Interface.

- 1 [Log in](#) to the Appliance Management Console as the `vaadmin` user.
- 2 Under **PlateSpin Transformation Manager Tools**, click **Configuration** .
- 3 On the PlateSpin Transformation Manager Configuration page, select **Web Server Configuration**.
- 4 For the Web Console HTTPS Port, specify the port to use for secure SSL connections with the PlateSpin Transformation Manager Web Interface. The default port is 8183
- 5 (Optional, not recommended) Select Enable HTTP to allow users to access the PlateSpin Transformation Manager Web Interface over port 8182 for non-secure connections.
- 6 Click **Submit**.

Upgrade

The Upgrade option is available if the appliance detects that the RPM files for PlateSpin Transformation Manager or the guest operating system have been upgraded. After you log in to the Appliance Management Console, you must complete the upgrade before you can manage the appliance or the PlateSpin Transformation Manager Server.

- 1 (Optional, recommended) Log out of the Appliance Management Console, back up your PlateSpin Transformation Manager database, then log in again to the Appliance Management Console.
- 2 When you are redirected to the Upgrade page, click **Complete Upgrade**.

The upgrade automatically starts the PlateSpin Transformation Manager service and the PlateSpin Migrate Connector for PTM service.

Web Interface Session Timeout

A user session in the PlateSpin Transformation Manager Web Interface times out by default after 30 minutes of browser inactivity. The Web Interface Session Timeout interval is configurable with the `tm.session.timeout.minutes` property in the `/opt/microfocus/ps_transform_mgr/config/system.properties` file. If the property is not specified in this file, the session timeout defaults to 30 minutes.

- 1 Enable the SSH service on the Appliance VM.
See [“Enabling or Disabling the SSH Service”](#) on page 26.
- 2 Start an SSH session with the Appliance VM, then log in as the `vaadmin` user or `root` user.
- 3 Navigate to the `/opt/microfocus/ps_transform_mgr/config/` directory.
- 4 Open the `system.properties` file in a text editor.
- 5 Add the `tm.session.timeout.minutes` property and specify the value in minutes to set the interval of browser inactivity to allow before a Web Interface session times out.
- 6 Save the file and close the text editor.

- 7 Restart the PlateSpin Transformation Manager service to allow the Web Interface Session Timeout value to take effect.

In your SSH session, enter the following at a terminal console:

```
rcps_transform_mgr restart
```

- 8 Exit your SSH session.
- 9 (Optional) Disable the SSH service on the Appliance VM.
See [“Enabling or Disabling the SSH Service”](#) on page 26.

5 Configuring a Custom UI Theme for the Web Interface

PlateSpin Transformation Manager allows you to create a custom look-and-feel for the Web Interface. You copy the default theme files to a new directory, customize the files as appropriate, and then point to the custom theme location in the Web Interface configuration file.

PlateSpin Transformation Manager provides two key configurable components for the Web Interface theme:

- ◆ **Theme folder:** `/vastorage/ptm/themes/<your_theme_directory>/`
 - ◆ **Color variables:** A custom CSS file defines about 20 colors that, along with their derivative colors, affect about 80 percent of text, titles, underscores, buttons, shadings, and so on throughout the Web Interface. You can modify the color definitions to suit the color scheme for your business.
 - ◆ **Images:** You can replace any of the various images related to icons displayed for configuration, dashboard, resources, projects, users, and workloads.
- ◆ **Theme configuration file:** `/etc/opt/microfocus/ps_transform_mgr/config/transformationmanager-themes.cfg`
 - ◆ **Product Name:** You can specify the full and short product name that displays in the Web Interface.
 - ◆ **Theme:** You can specify the default `TransformationManager` theme directory, or specify your custom theme directory.

Use the following procedures to set your custom theme:

- ◆ [“Setting Up Your Custom Theme” on page 47](#)
- ◆ [“Resetting Your Custom Theme after an Upgrade” on page 49](#)

Setting Up Your Custom Theme

To create a custom theme for the PTM Web Interface:

- 1 Enable the SSH service on the appliance:
 - 1a Log in to the Appliance Management Console as the `vaadmin` user.
 - 1b Click **System Services**.
 - 1c Select the SSH service.
 - 1d Select **Action > Start**.
 - 1e Click **Close** to exit System Services.
- 2 Start an SSH session and log in as the `vaadmin` user to the user appliance.
- 3 Set up your custom theme files:
 - 3a Navigate to the `/vastorage/ptm/themes/` directory.
 - 3b Create a subdirectory under `themes` for your custom theme, such as `MyCompanyTheme`.

- 3c** Copy the contents of the `/vastorage/ptm/themes/TransformationManager` directory to your new theme directory (`/vastorage/ptm/themes/MyCompanyTheme`).
- 3d** In your custom theme directory, update the custom CSS file for color variables;
`/vastorage/ptm/themes/<your_theme_directory>/en/web/theme_variables.tmcss`
- 3e** In your custom theme directory, change the image files as appropriate to define your custom theme for the PTM Web Interface.
- 4** Modify the `transformationmanager-themes.cfg` file with your custom settings:
- 4a** Open the `/etc/opt/microfocus/ps_transform_mgr/config/transformationmanager-themes.cfg` file in a text editor.
- 4b** Modify the `server.theme` directive to replace the `TransformationManager` theme with your custom theme `MyCompanyTheme`.
 For example, change this line:
- ```
server.theme=TransformationManager
```
- to this:
- ```
server.theme=MyCompanyTheme
```
- 4c** (Optional) Modify the lines that specify the product name.
- ```
server.productname=PlateSpin Transformation Manager
server.shortproductname=Transformation Manager
```
- 4d** Save your changes.
- 5** Restart the PlateSpin Transformation Manager service to allow the theme changes to take effect.  
 Do one of the following:
- ◆ In your SSH session, enter the following at a terminal console:
 

```
rcps_transform_mgr restart
```
  - ◆ Log in to the Appliance Management Console, click **System Services**, select PlateSpin Transformation Manager (`ps_transform_mgr`), then select **Action > Restart**.
- 6** Log in to the PTM Web Interface to verify your UI changes.  
 To make additional changes, return to the appliance to update your custom theme files as appropriate, then restart the service to apply the changes.
- 7** After your theme changes are complete, end your SSH session.
- 8** Disable the SSH service:
- 8a** Log in to the Appliance Management Console as the `vaadmin` user, then click **System Services**.
- 8b** Select the SSH service.
- 8c** Select **Action > Stop**.
- 8d** Click **Close** to exit System Services.
- 8e** Log out of the Appliance Management Console, then close your web browser.

# Resetting Your Custom Theme after an Upgrade

An appliance update ignores your custom theme directory, but updates files in the default theme location. After an upgrade or update, you must verify that your themes are still valid and manually update your theme files as necessary.

**After a patch or online update, manually update your theme:**

- 1 Enable the SSH service on the appliance:
  - 1a Log in to the Appliance Management Console as the `vaadmin` user, then click **System Services**.
  - 1b Select the SSH service.
  - 1c Select **Action > Start**.
  - 1d Click **Close** to exit System Services.
- 2 Start an SSH session and log in as the `vaadmin` user to the appliance.
- 3 Navigate to the `/vastorage/ptm/themes/TransformationManager` directory.
- 4 Copy the latest version of the CSS and image files that you modified from the `TransformationManager` location to a working location.
- 5 Merge your custom settings to these new files.
- 6 Copy the updated files to your theme directory (`/vastorage/ptm/themes/MyCompanyTheme`).
- 7 Restart the PlateSpin Transformation Manager service to allow the theme changes to take effect.

Do one of the following:

  - ♦ In your SSH session, enter the following at a terminal console:

```
rcps_transform_mgr restart
```
  - ♦ Log in to the Appliance Management Console, click **System Services**, select PlateSpin Transformation Manager (`ps_transform_mgr`), then select **Action > Restart**.
- 8 Log in to the PTM Web Interface to verify your UI changes.

To make additional changes, return to the appliance to update your custom theme files as appropriate, then restart the service to apply the changes.
- 9 After the theme changes are complete, end your SSH session.
- 10 Disable the SSH service:
  - 10a Log in to the Appliance Management Console as the `vaadmin` user, then click **System Services**.
  - 10b Select the SSH service.
  - 10c Select **Action > Stop**.
  - 10d Click **Close** to exit System Services.
  - 10e Log out of the Appliance Management Console, then close your web browser.



# A Documentation Updates

This section contains information on documentation content changes that were made in this *Appliance Guide* after the initial release of PlateSpin Transformation Manager 1.1.

## May 2017

| Location                                                       | Update               |
|----------------------------------------------------------------|----------------------|
| <a href="#">"Configuring Proxy Client Settings" on page 35</a> | This section is new. |

