

Getting Started Guide

PlateSpin Forge 3.1

October, 2011

Novell.

Legal Notices

Novell, Inc., makes no representations or warranties with respect to the contents or use of this documentation, and specifically disclaims any express or implied warranties of merchantability or fitness for any particular purpose. Further, Novell, Inc., reserves the right to revise this publication and to make changes to its content, at any time, without obligation to notify any person or entity of such revisions or changes.

Further, Novell, Inc., makes no representations or warranties with respect to any software, and specifically disclaims any express or implied warranties of merchantability or fitness for any particular purpose. Further, Novell, Inc., reserves the right to make changes to any and all parts of Novell software, at any time, without any obligation to notify any person or entity of such changes.

Any products or technical information provided under this Agreement may be subject to U.S. export controls and the trade laws of other countries. You agree to comply with all export control regulations and to obtain any required licenses or classification to export, re-export or import deliverables. You agree not to export or re-export to entities on the current U.S. export exclusion lists or to any embargoed or terrorist countries as specified in the U.S. export laws. You agree to not use deliverables for prohibited nuclear, missile, or chemical biological weaponry end uses. See the [Novell International Trade Services Web page \(http://www.novell.com/info/exports/\)](http://www.novell.com/info/exports/) for more information on exporting Novell software. Novell assumes no responsibility for your failure to obtain any necessary export approvals.

Copyright © 2009-2011 Novell, Inc. All rights reserved. No part of this publication may be reproduced, photocopied, stored on a re-trieval system, or transmitted without the express written consent of the publisher.

Novell, Inc.
1800 South Novell Place
Provo, UT 84606
U.S.A.
www.novell.com

Online Documentation: To access the latest online documentation for this and other Novell products, see the [Novell Documentation Web page \(http://www.novell.com/documentation\)](http://www.novell.com/documentation).

Novell Trademarks

For Novell trademarks, see [the Novell Trademark and Service Mark list \(http://www.novell.com/company/legal/trademarks/tmlist.html\)](http://www.novell.com/company/legal/trademarks/tmlist.html).

Third-Party Materials

All third-party trademarks are the property of their respective owners.

About This Guide

This guide provides information on the basic steps required for setting up your Forge appliance. A PDF version of this guide, on portable media, should be included in your shipment.

For a copy of this guide in one of the supported languages (Chinese, French, German, and Japanese), access the product documentation page and change the language to the required one. See [Additional Documentation](#).

Audience

This guide is intended for IT staff, such as data center administrators and operators, who use PlateSpin Forge in their ongoing workload protection projects.

Feedback

We want to hear your comments and suggestions about this manual and the other documentation included with this product. Please submit your comments through the [Novell Documentation Feedback site](#) (<http://www.novell.com/documentation/feedback.html>).

Additional Documentation

This guide has been generated from text used by the PlateSpin Forge 3 documentation. For a complete list of publications supporting this release, visit the [PlateSpin Forge Online Documentation Web Site](#) (http://www.novell.com/documentation/platespin_forge_3).

Additional Resources

We encourage you to use the following additional resources on the Web:

- ♦ [Novell User Forum](#) (<http://forums.novell.com>): A Web-based community with a variety of discussion topics.
- ♦ [Novell Knowledgebase](#) (<http://www.novell.com/support>): A collection of in-depth technical articles.

Technical Support

- ♦ Telephone (North America): +1-877-528-3774 (1 87 PlateSpin)
- ♦ Telephone (global): +1-416-203-4799
- ♦ E-mail: support@platespin.com

You can also visit the [PlateSpin Technical Support Web site](#) (<http://www.platespin.com/support>).

Contents

About This Guide	3
1 Getting Started with Your PlateSpin Forge Appliance	7
1.1 Before You Begin	7
1.2 Appliance Configuration Procedure	7
1.2.1 Determining your Unit's Appliance Version	8
1.2.2 Appliance Version 1 Configuration Procedure Using the Forge Console	8
1.2.3 Appliance Version 2 Configuration Procedure Using the Forge ACC	12
1.3 Launching the PlateSpin Forge Web Client	18
1.4 Product Licensing	19
1.4.1 Online License Activation	19
1.4.2 Offline License Activation	19
1.5 Post-Setup Tasks	20

1 Getting Started with Your PlateSpin Forge Appliance

PlateSpin Forge is a consolidated recovery hardware appliance that protects physical and virtual workloads by using embedded virtualization technology. If there is a production server outage or disaster, workloads can be rapidly powered on within the PlateSpin Forge recovery environment and continue to run as normal until the production environment is restored.

- ♦ [Section 1.1, “Before You Begin,” on page 7](#)
- ♦ [Section 1.2, “Appliance Configuration Procedure,” on page 7](#)
- ♦ [Section 1.3, “Launching the PlateSpin Forge Web Client,” on page 18](#)
- ♦ [Section 1.4, “Product Licensing,” on page 19](#)
- ♦ [Section 1.5, “Post-Setup Tasks,” on page 20](#)

1.1 Before You Begin

In preparation for the initial configuration of your appliance, do the following tasks:

1. **Obtain your license activation code:** For product licensing, you must have a license activation code, e-mailed to the named contact of a PlateSpin Purchase Order. To view your activation code, log in to the [Novell Customer Center Web site \(http://www.novell.com/customercenter/\)](http://www.novell.com/customercenter/), using the same e-mail address specified in your Purchase Order.
2. **Fill in the configuration worksheet:** The PlateSpin Forge Resource Kit package includes a Configuration Worksheet used to document your current environment and list changes needed for configuration.

A copy of the worksheet is available online: [Configuration Worksheet \(http://www.novell.com/documentation/platespin_forge_3/pdfdoc/appl/appl_worksheet.pdf\)](http://www.novell.com/documentation/platespin_forge_3/pdfdoc/appl/appl_worksheet.pdf).
3. **Set up the hardware:** Unpack the PlateSpin Forge appliance and use the Components List in the box to ensure that all components have been received. If there is anything missing, contact your PlateSpin representative. Use the enclosed documentation to mount and connect the hardware.

1.2 Appliance Configuration Procedure

The initial setup and configuration of the PlateSpin Forge appliance is a one-time procedure consisting of the following steps:

- 1 Configuring the appliance host (VMware ESX, which is the hypervisor component of the product).
- 2 Configuring the Forge Management VM (a Windows virtual machine with application logic running on the host).
- 3 Activating your product license.

For your convenience, a [Configuration Worksheet \(http://www.novell.com/documentation/platespin_forge_3/pdfdoc/appl/appl_worksheet.pdf\)](http://www.novell.com/documentation/platespin_forge_3/pdfdoc/appl/appl_worksheet.pdf) is included in your appliance documentation; fill it out before starting this procedure.

The initial configuration procedure for your appliance will vary depending on the *appliance version*.

- ♦ [Section 1.2.1, “Determining your Unit’s Appliance Version,” on page 8](#)
- ♦ [Section 1.2.2, “Appliance Version 1 Configuration Procedure Using the Forge Console,” on page 8](#)
- ♦ [Section 1.2.3, “Appliance Version 2 Configuration Procedure Using the Forge ACC,” on page 12](#)

1.2.1 Determining your Unit’s Appliance Version

You can determine the appliance version of your Forge unit by using one of the following methods:

- ♦ **Forge Web Client:** Look up the appliance version number in the PlateSpin Forge Web Client’s *Help > About* page. You can only do this if you are reconfiguring Forge.
- ♦ **Local Configuration Interface Type:** Connect a monitor to the appliance and power it on. If the system displays the blue screen of the Forge Console, your appliance version is 1. If the system displays the ESX configuration screen, your appliance version is 2.
- ♦ **Remote Configuration Interface:** Using a Web browser and the IP address of your Forge unit, attempt to launch the Forge Appliance Configuration Console (ACC) as described in [Appliance Version 2 Configuration Procedure Using the Forge ACC \(Step 2 through Step 4\)](#). If you are able to connect, your appliance version is 2.

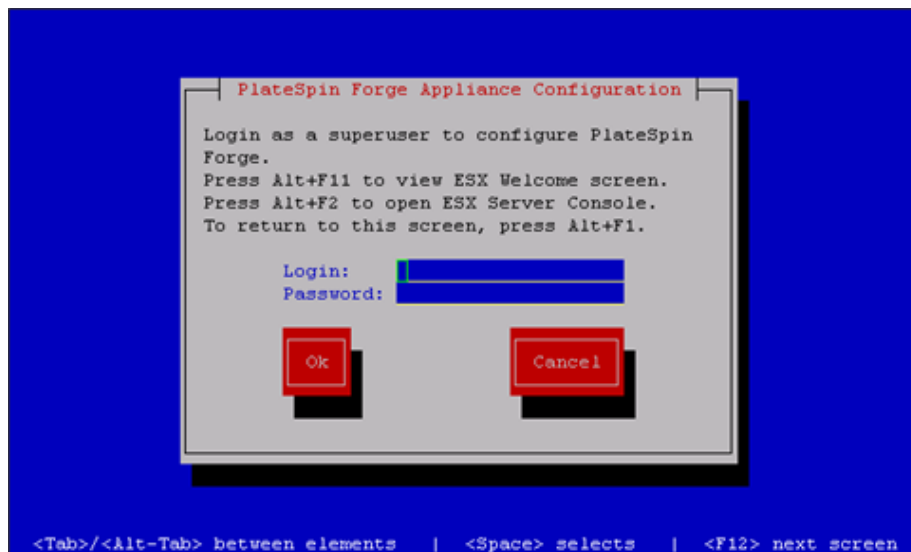
1.2.2 Appliance Version 1 Configuration Procedure Using the Forge Console

The initial setup and configuration of the PlateSpin Forge appliance is a one-time procedure. Record all pertinent information on the printed Configuration Worksheet in case you need to contact PlateSpin Technical Support with any setup issues.

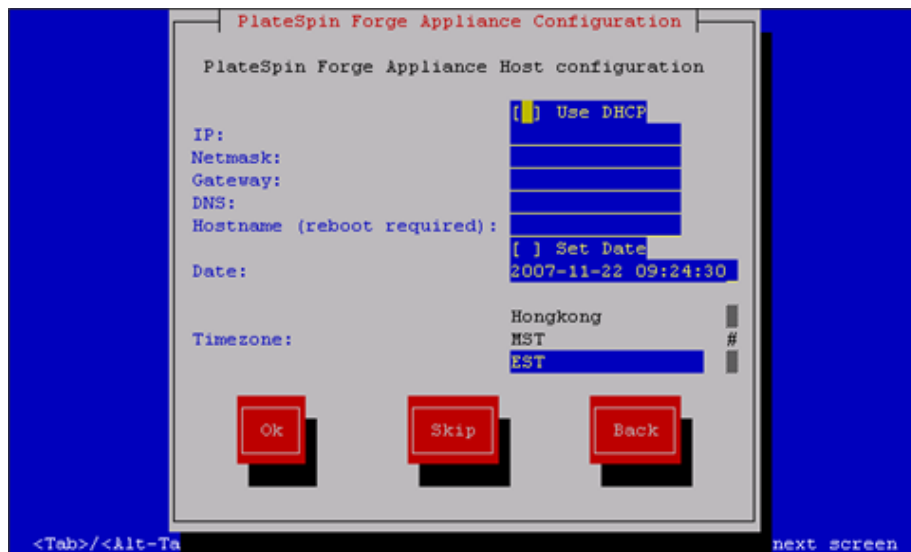
IMPORTANT: Unsupported modifications of the PlateSpin Forge or Management VM, including running other virtual machines on PlateSpin Forge, can impact its performance and might violate the End User License Agreement, voiding your warranty.

To fully configure PlateSpin Forge, you need to configure the hardware and the Management VM (the software).

- 1 Perform the preparatory steps described in [“Before You Begin” on page 7](#).
- 2 Upon initial power-on, ensure that the PlateSpin Forge Configuration dialog box is displayed.



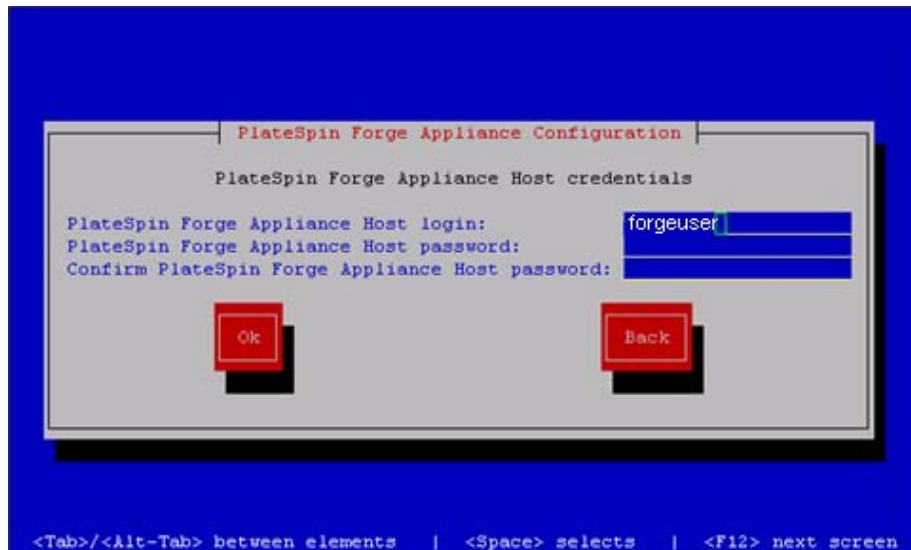
- 3 Type `root` in the *Login* field and password in the *Password* field. Select **OK**.
The *change default password* dialog box is displayed. You must change the default password before proceeding.
- 4 Type a new password in the *New password* field and again in the *Confirm Password* field. Select **OK**.
The system confirms the password change.
- 5 Select **OK**.
You are logged out so that you can log back in with your new password.
- 6 Log back in.
The VMware ESX EULA dialog box is displayed. You must accept the end user license before continuing.
- 7 Select *I accept the terms and conditions*, then select **OK**.
See [the VMware Web Site \(http://www.vmware.com\)](http://www.vmware.com) for the latest end user license agreement.
The PlateSpin Forge EULA dialog box is displayed.
- 8 Select *I accept the terms and conditions*, then select **OK**.
The PlateSpin Forge Host Configuration dialog box is displayed.
- 9 Specify the *IP* address, *Netmask*, and *Gateway* IP address you want to assign to the Appliance Host. Optionally, you can also enter a *Hostname*, but you will need to reboot the appliance.



You can also use DHCP, but assigning a static IP address is recommended. It is also highly recommended to assign hostnames to the appliances in multiple-appliance environments to avoid hostname conflicts.

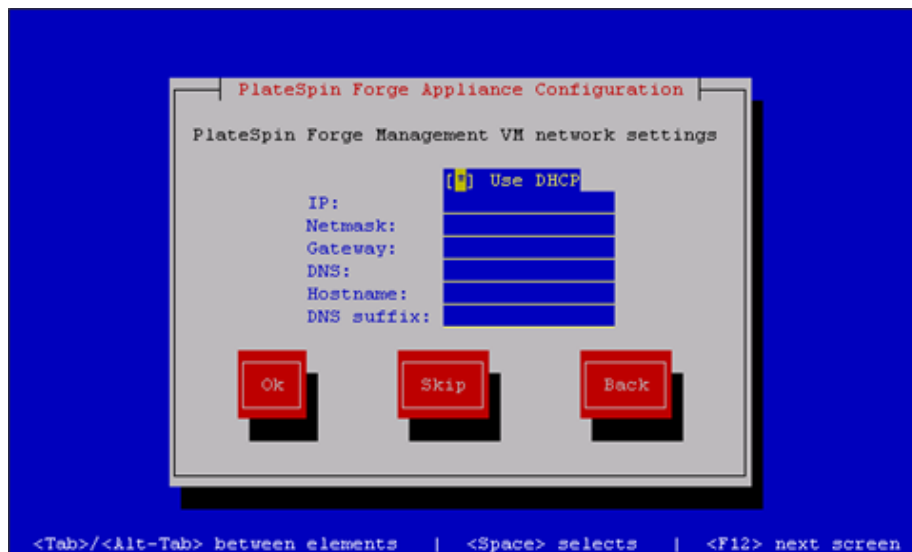
- 10 Select *Set Date*, specify a date and time, select a *Timezone*, then select *OK*.

The PlateSpin Forge Host Credentials dialog box is displayed. This is where you enter the credentials you want to use to access the ESX server, which is the hypervisor layer of the appliance.



- 11 Specify a login name in the *PlateSpin Forge Appliance Host login* field, type a password, confirm by retyping the password, then select *OK*. This creates a new ESX user that is a member of the root group. Unlike the *root* user, the new user has SSH permissions on ESX.

The Management VM network settings dialog box is displayed.



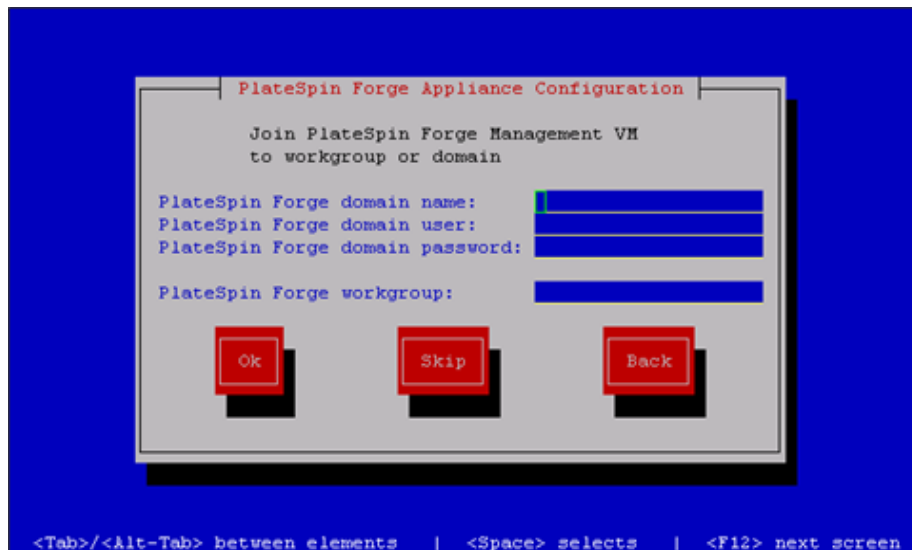
- 12 Deselect *Use DHCP* and provide the Management VM *IP* address, *Netmask*, *Gateway* address, and (optionally) a *Hostname*. The IP address entered here is used to access the PlateSpin Forge Web Client.

You can also use DHCP, but assigning a static IP address is recommended.

- 13 (Optional) Type the name of a DNS server in the *DNS* field and provide a *DNS suffix*.
- 14 Click *OK*.

The Appliance Configuration dialog box prompts whether or not to join a workgroup or domain.

- 15 Select *Yes* to open the Join PlateSpin Forge Management VM to Workgroup or Domain dialog box:



Joining a domain allows you to give selected domain users permissions for the application.

16 Do one of the following:

- ♦ Type a domain name, user, and password, or type a workgroup. If the domain fields are populated, the *Workgroup* field is ignored. Select *OK*.
- ♦ Leave the fields empty and click *Skip* to proceed to the next step and use *WORKGROUP* as the default workgroup name.

A Configuration Review dialog box is displayed with a summary of the parameters you have selected. Use the information to verify your settings.

If necessary, select *Cancel* to display an error message or to exit the configuration interface. Select *Back* to edit previous settings.

17 Select *OK*.

A configuration progress dialog box is displayed. Configuration can take several minutes. A final dialog box is displayed confirming the configuration's success or failure. If the process is successful, the dialog box presents a URL you can use to access the PlateSpin Forge Web Client. Record this URL for future use.

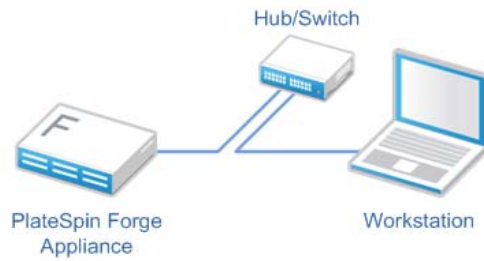


18 Select *OK*.

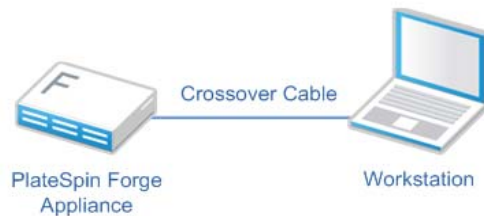
1.2.3 Appliance Version 2 Configuration Procedure Using the Forge ACC

To begin the installation and configuration of the appliance, you must connect directly to it through another computer and use the browser-based Appliance Configuration Console (ACC) utility. Consider using a notebook computer for flexibility and mobility.

- 1 Perform the preparatory steps described in [“Before You Begin” on page 7](#).
- 2 Connect your computer to the appliance. You can do this in two ways:
 - ♦ **Connection through a Network Switch:** Connect both units to a network switch or a hub through an Ethernet network cable:



- ♦ **Direct Connection:** Connect your PlateSpin Forge appliance and the computer directly through a crossover cable:



- 3 Turn on the power of the PlateSpin Forge appliance. Wait at least 10 minutes for the system to fully start before trying to connect.
- 4 Assign the computer an IP address, in the 192.168.1.x range and an associated subnet mask of 255.255.255.0 (or any IP address/subnet mask combination, making sure that the computer is able to ping the appliance at its default IP address, 192.168.1.200).

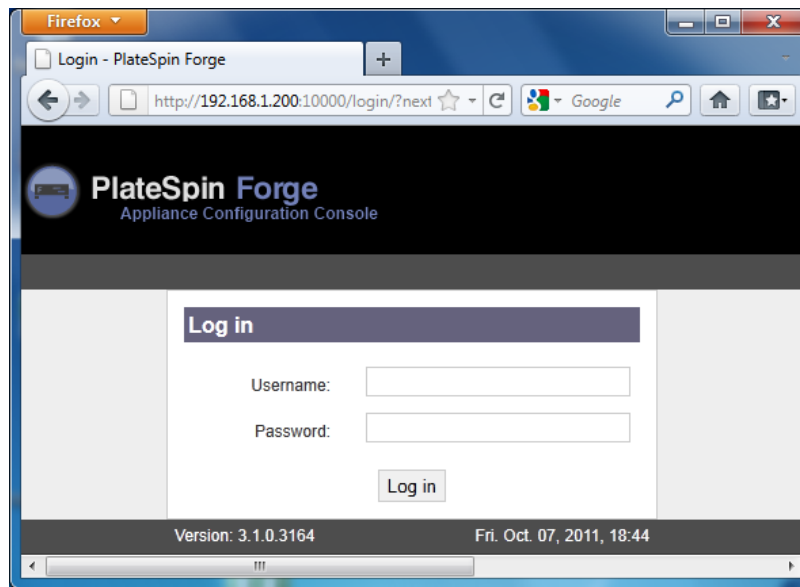
NOTE: Do not use the following IP addresses:

- ♦ 192.168.1.200 - used by the hypervisor
- ♦ 192.168.1.210 - used by the Forge VM (assigned by an automatic appliance configuration utility).

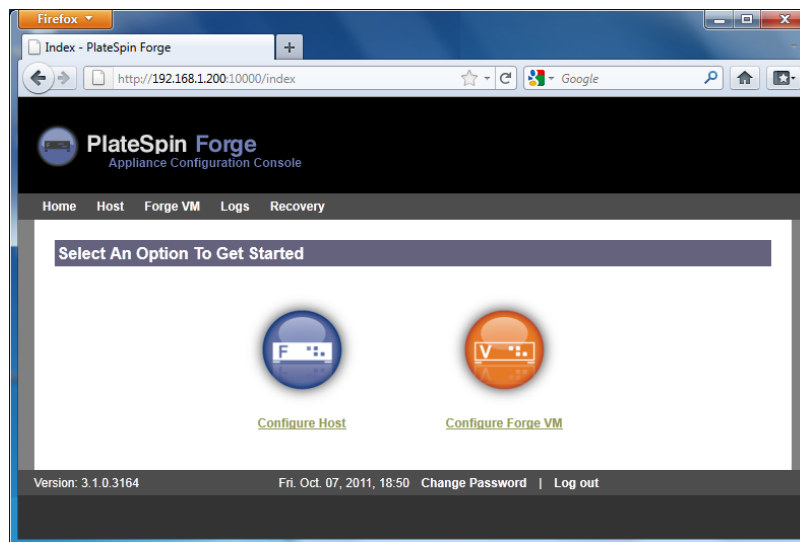
- 5 Open a supported Web browser and go to the Forge Appliance Configuration Console (ACC) at <http://192.168.1.200:10000>.

NOTE: Depending on your browser, you might have to type the entire URL, including the protocol (<http://>) in the browser's address bar.

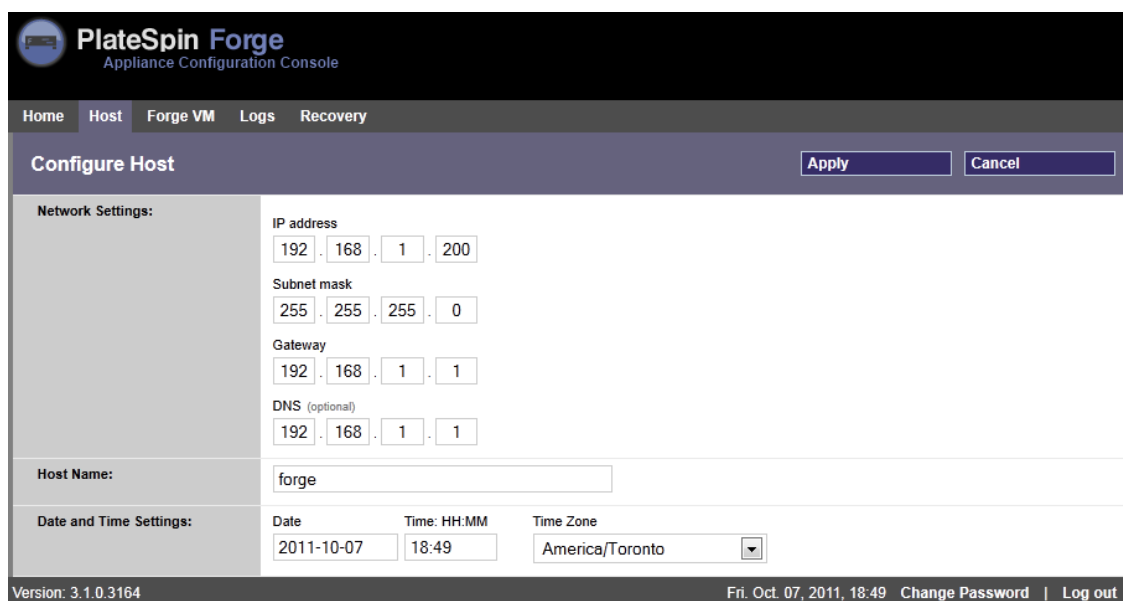
The system prompts you to log in.



- 6 Log in using the root account (password: password).
The system redirects you to the Change Password page.
- 7 Change the password for the root account as well as for the forgeuser account.
- 8 Log out of the ACC.
- 9 Log in using the forgeuser account using the password you set in [Step 7](#).
The system prompts you to configure the host or the Forge virtual machine:



- 10 Click *Configure Host*.
The system displays the Configure Host screen:



PlateSpin Forge
Appliance Configuration Console

Home Host Forge VM Logs Recovery

Configure Host Apply Cancel

Network Settings:

IP address: 192 . 168 . 1 . 200

Subnet mask: 255 . 255 . 255 . 0

Gateway: 192 . 168 . 1 . 1

DNS (optional): 192 . 168 . 1 . 1

Host Name: forge

Date and Time Settings:

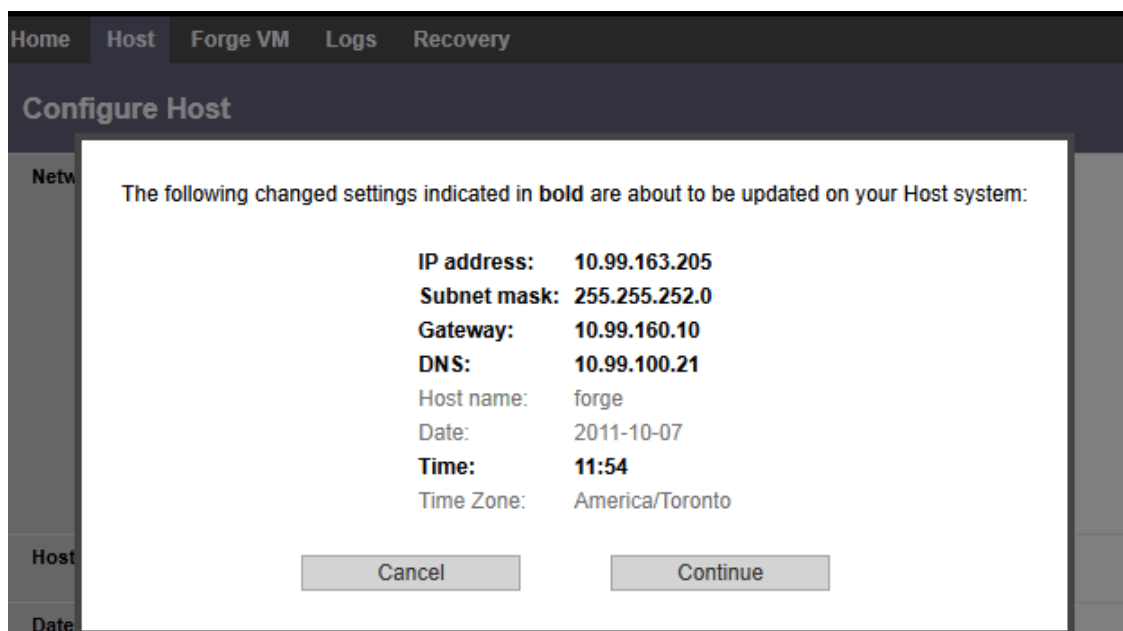
Date: 2011-10-07 Time: HH.MM: 18:49 Time Zone: America/Toronto

Version: 3.1.0.3164 Fri, Oct. 07, 2011, 18:49 [Change Password](#) | [Log out](#)

NOTE: You must first configure the appliance host. Do not attempt to configure the Forge VM before this.

- 11 Enter the appropriate settings and click *Next > Apply*.

The system displays a summary of the configuration parameters you specified:



Home Host Forge VM Logs Recovery

Configure Host

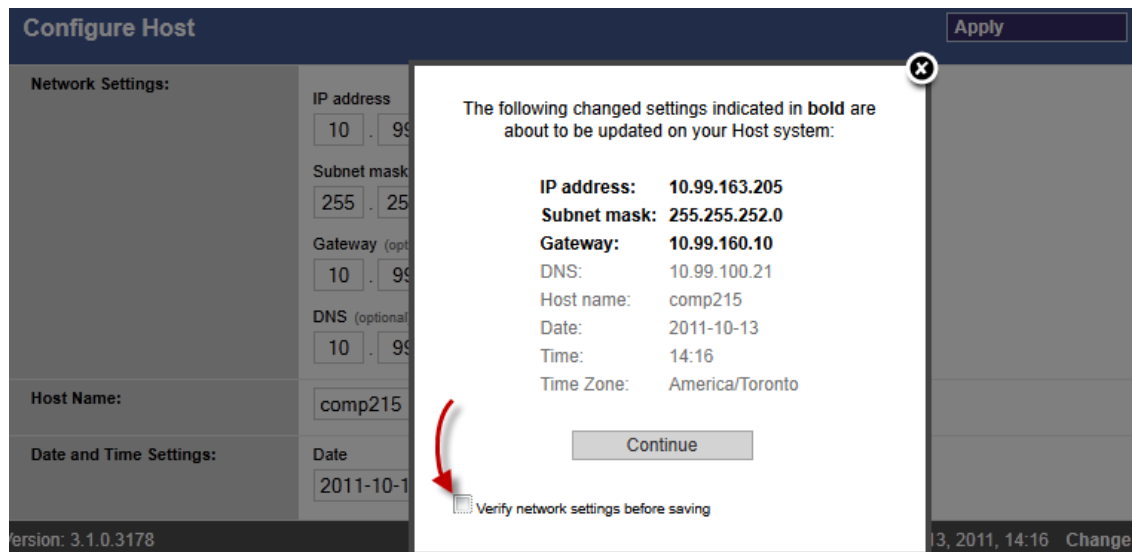
Network Settings:

The following changed settings indicated in **bold** are about to be updated on your Host system:

IP address: 10.99.163.205
Subnet mask: 255.255.252.0
Gateway: 10.99.160.10
DNS: 10.99.100.21
Host name: forge
Date: 2011-10-07
Time: 11:54
Time Zone: America/Toronto

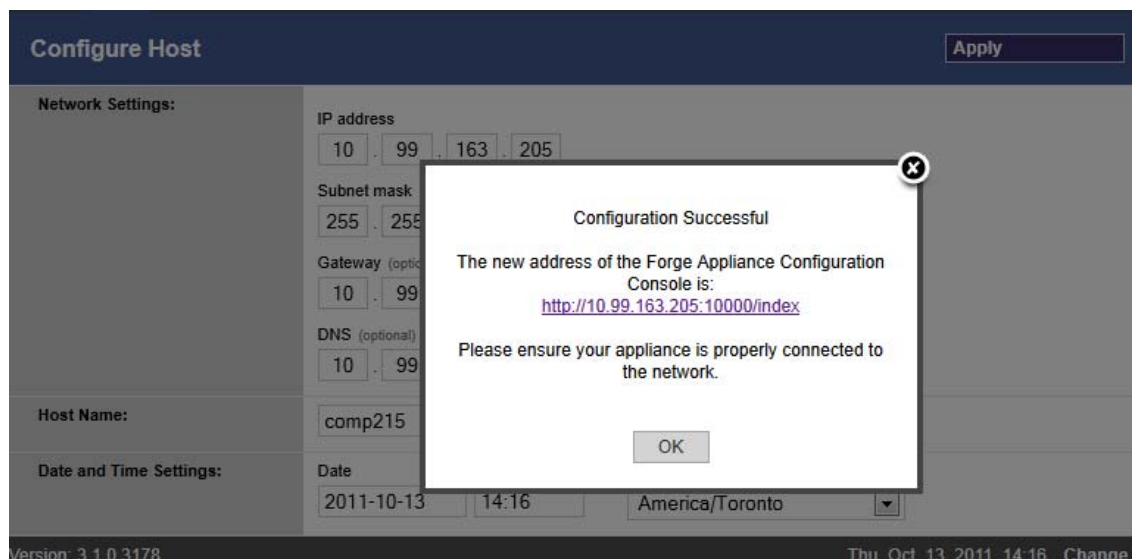
Cancel Continue

NOTE: If you are reconfiguring the appliance (if it is not the first time you are performing this procedure), the system prompts you to verify if the new connection works. If the check fails, the Forge IP address is reverted.



12 Click *Continue*.

The system displays a progress indicator, and when the configuration is complete, confirms its success:



13 Disconnect the computer and connect the appliance to the production network (where the new IP address will be valid).

14 From the computer, go to `http://<appliance_IP>:10000`

(If you are using the same computer, make sure to change its IP address to one that is valid in your network).

15 Log in using the forgeuser account.

16 Click Configure Forge VM.

The system displays the Configure the Forge VM page:

Configure Forge VM

Apply

Network Settings:

☐ Obtain IP settings automatically from a DHCP server
☒ Use the following static network settings:
IP address

10 . 0 . 0 . 10

Subnet mask

255 . 255 . 255 . 0

Gateway (optional)

. . .

DNS (optional)

. . .

Host Name:

DNS Suffix:

(optional)

Member of:

☐ Domain
☒ Workgroup

Workgroup

- 17 Enter the appropriate settings and click *Next > Apply*.
The system displays a summary of the configuration parameters you specified:

Home Host Forge VM Logs Recovery

Configure Forge VM

Apply

Network Settings:

☐ Obtain IP settings automatically from a DHCP server
☒ Use the following static network settings:
IP address

10 . 0 . 0 . 10

Subnet mask

255 . 255 . 255 . 0

Gateway (optional)

10 . 0 . 0 . 10

DNS (optional)

10 . 0 . 0 . 10

Host Name:

forge3178

DNS Suffix:

The following changed settings indicated in **bold** are about to be updated on your Forge VM:

Use DHCP: No

IP address: 10.99.125.41

Subnet mask: 255.255.254.0

Gateway: 10.99.124.10

DNS: 10.99.100.21

Host name: forge3178

DNS suffix:

Workgroup: TEST

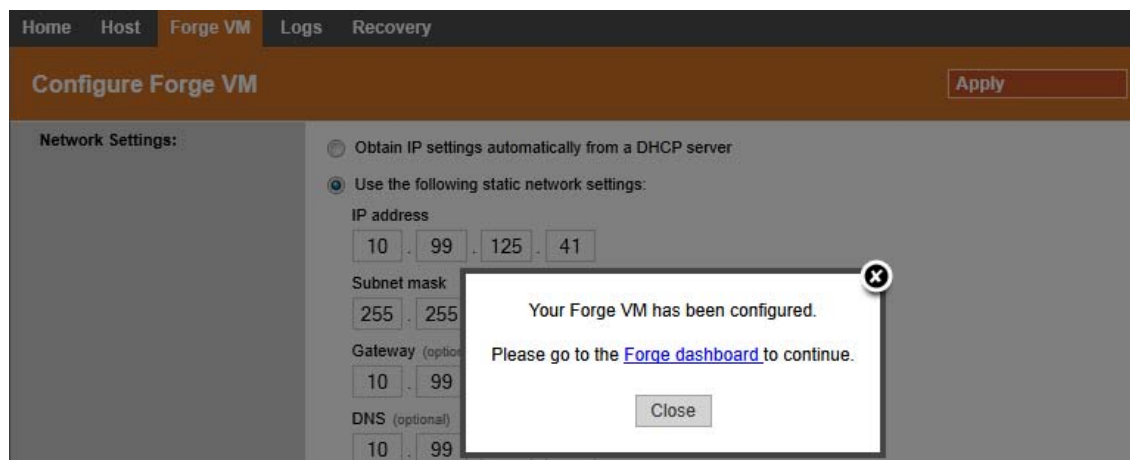
Note: The Forge VM may be re-booted several times during the configuration process

Continue

18 Click *Continue* and wait for the VM configuration to complete.
The system displays a progress indicator, and when the configuration is complete, confirms its success:

Getting Started with Your PlateSpin Forge Appliance

17



- 19 Click the Forge Dashboard link to connect to the Forge UI at `http://<appliance_IP>/forge`. Use the default credentials for the Forge VM (username: Administrator, password: password).

1.3 Launching the PlateSpin Forge Web Client

Most of your interaction with the appliance takes place through the browser-based PlateSpin Forge Web Client.

The supported browsers are:

- ♦ Microsoft Internet Explorer 7 and later
- ♦ Mozilla Firefox 3.6 and later

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

- ♦ **Internet Explorer:** Click *Tools > Internet Options > Security > Internet zone > Custom level*, then select the *Enable* option for the Active Scripting feature.
 - ♦ **Firefox:** Click *Tools > Options > Content*, then select the *Enable JavaScript* option.
-

To launch the PlateSpin Forge Web Client:

- 1 Open a Web browser and go to:

`http://<hostname | IP_address>/Forge`

Replace `<hostname | IP_address>` with the hostname or the IP address of your Forge VM.

If SSL is enabled, use `https` in the URL.

The first time you log into PlateSpin Forge, the browser is automatically redirected to the License Activation page.

1.4 Product Licensing

For product licensing, you must have a license activation code. If you do not have a license activation code, request one through the [Novell Customer Center Web site \(http://www.novell.com/customercenter/\)](http://www.novell.com/customercenter/). A license activation code will be e-mailed to you.

You have two options for activating your product license: online or offline.

- ♦ [Section 1.4.1, “Online License Activation,” on page 19](#)
- ♦ [Section 1.4.2, “Offline License Activation,” on page 19](#)

1.4.1 Online License Activation

For online activation, PlateSpin Forge must have Internet access.

NOTE: HTTP proxies might cause failures during online activation. Offline activation is recommended for users in HTTP proxy environments.

- 1 In the PlateSpin Forge Web Client, click *Settings > Licenses > Add License*. The License Activation page is displayed.



- 2 Select *Online Activation*, specify the e-mail address that you provided when placing your order and the activation code you received, then click *Activate*.

The system obtains the required license over the Internet and activates the product.

1.4.2 Offline License Activation

For offline activation, you obtain a license key over the Internet by using a machine that has Internet access.

NOTE: To obtain a license key, you must have a Novell account. If you are an existing PlateSpin customer and you don't have a Novell account, you must first create one. Use your existing PlateSpin username (a valid e-mail address registered with PlateSpin) as input for your Novell account username.

- 1 In the PlateSpin Forge Web Client, click *Settings > License*, then click *Add license*. The License Activation page is displayed.
- 2 Select *Offline Activation*.
- 3 Use your hardware ID to create a license key file at the [PlateSpin Product Activation Web Site \(http://www.platespin.com/productactivation/ActivateOrder.aspx\)](http://www.platespin.com/productactivation/ActivateOrder.aspx). This also requires a user name, password, the e-mail address that you provided when placing your order and the activation code you received.

- 4 Type the path to the file or browse to its location and click *Activate*.
The license key file is saved and the product is activated based on this file.

1.5 Post-Setup Tasks

1. (Optional; for international versions) Set up PlateSpin Forge and your browser for use in a specific supported language. See “[Language Setup for International Versions of PlateSpin Forge](#)” in your *User Guide*.
2. Configure appliance host networking to separate replication or failover traffic from your main production network. See “[Setting up Appliance Networking](#)” in your *User Guide*.
3. (Optional) Set up appropriate role-based access settings as required by your organization. See “[Setting Up User Authorization and Authentication](#)” in your *User Guide*. In particular, make sure that you immediately change the default Administrator password (see “[Changing the PlateSpin Forge Administrator Password](#)”).
4. Configure SMTP settings and add e-mail notification recipients. For information, see “[Setting Up Automatic E-Mail Notifications of Events and Reports](#)” in your *User Guide*.
5. (Optional) Add additional data storage capacity to Forge. See “[Using External Storage Solutions with PlateSpin Forge](#)” in your *User Guide*.
6. Familiarize yourself with the PlateSpin Forge Web Client (see “[Up and Running](#)” in your *User Guide*), as well as the workload protection life cycle (“[Basic Workflow for Workload Protection and Recovery](#)” in your *User Guide*).