

IBM WebSphere CloudBurst Appliance V1.1

Appliance settings



This presentation will discuss the appliance settings for IBM WebSphere® CloudBurst™ V1.1.

Table of contents

- Customize settings
 - Security
 - Ethernet interfaces
 - Domain name servers
 - Date and time
 - Mail delivery
 - License management
 - Backup and restore
 - Firmware
 - Power
- Create users

When you are setting up your WebSphere CloudBurst Appliance, you will want to modify some of the appliance settings and create new user accounts to perform different operations on the appliance. This presentation will discuss the **Customize settings** and **Create users** functions of the WebSphere Cloudburst appliance. The settings include **security, Ethernet interfaces, domain name servers, date and time, mail delivery, license management, backup and restore, firmware, and power**. You will see how to create users, review user information, and see what permissions you can set from the user definition screen.

WebSphere CloudBurst Appliance settings

This section will discuss a general overview of the WebSphere Cloudburst Appliance settings.

Settings

The screenshot shows the WebSphere CloudBurst administrator interface. At the top, the navigation bar includes 'Welcome, Administrator', 'Help', and 'About'. Below this, a secondary navigation bar contains 'Welcome', 'Virtual Systems', 'Patterns', 'Catalog', 'Cloud', 'Appliance', 'Profile', and 'Logout'. The 'Appliance' menu is highlighted with a red box, and a red dashed arrow points to a dropdown menu that is open, showing 'Settings', 'Users', 'User Groups', 'Task Queue', and 'Troubleshooting'. The 'Settings' option in the dropdown is also highlighted with a red box. A yellow callout box with the text 'One way to access settings' has an arrow pointing to the 'Customize settings' link under 'Step 1: Set up the appliance'. Another yellow callout box with the text 'Another way to access settings' has an arrow pointing to the 'Settings' option in the 'Appliance' dropdown menu. The main content area is titled 'Welcome to WebSphere CloudBurst!' and contains a 'Deployment made easier' section with four steps: 'Step 1: Set up the appliance', 'Step 2: Set up the cloud', 'Step 3: Create a virtual system', and 'Step 4: View virtual systems'. The footer of the page includes the number '4', the text 'Appliance settings', and the copyright notice '© 2010 IBM Corporation'.

After you have logged on to the WebSphere CloudBurst appliance, you will see the welcome screen. To set up the appliance, you click **Customize settings** under the topic “Step 1: Set up the appliance” topic. Alternatively you can click **Appliance** within the title bar, and within the pull down that opens, click **Settings**.

Appliance settings

The screenshot shows the WebSphere CloudBurst interface. At the top, there is a navigation bar with the following items: Welcome, Virtual Systems, Patterns, Catalog (with a dropdown arrow), Cloud (with a dropdown arrow), and Appliance (with a dropdown arrow). Below the navigation bar, the main content area is titled "Appliance settings for 9.3.3.3". Under this title, there is a list of settings categories, each with a plus sign icon to its left:

- Security
- Ethernet Interfaces
- Domain Name Servers
- Date and Time
- Mail Delivery
- License Management
- Backup and Restore
- Firmware
- Power

Appliance settings will allow you to customize security, Ethernet interfaces, domain name servers, date and time, mail delivery, license management, backup and restore, review and update firmware, and administer power.

The screenshot displays the 'Appliance settings for 9.3.75.158' interface. The 'Security' section is expanded to show 'Permissions' and 'External Authentication'.

Permissions:

- Allow new users to create their own accounts:
- Allow password reset from the serial console:

External Authentication:

- Enable LDAP authentication
- Name: None provided
- JNDI provider URL: ldap://bluepages.ibm.com:389/
- JNDI base DN (users): ou=bluepages,o=ibm.com
- JNDI base DN (groups): ou=ibmgroups,o=ibm.com
- Search filter (users): (&(mail={0})(objectclass=ibmPerson))
- JNDI security authentication: None provided
- Password: ***** [edit]

Test LDAP authentication settings:

To test whether LDAP authentication settings are setup correctly.

LDAP user name:

LDAP group name:

Callouts:

- New users create their own accounts?** (points to the 'Allow new users to create their own accounts' setting)
- Allow password reset from serial console?** (points to the 'Allow password reset from the serial console' setting)
- LDAP enablement and settings** (points to the 'Enable LDAP authentication' checkbox)
- Test LDAP user name** (points to the 'LDAP user name' input field)
- Test LDAP group name** (points to the 'LDAP group name' input field)

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Within the security settings, you can customize some of the settings for permissions and external authentication. Within permissions, you can allow or disallow new users to create their own accounts within the appliance. Also, you can allow or disallow a password reset from within the serial console. External authentication allows you to enable LDAP authentication and provides the capability to test the LDAP settings.

Ethernet interfaces

WebSphere CloudBurst Welcome, Administrator

Welcome Virtual Systems Patterns Catalog Cloud **Appliance**

Appliance settings for 9.3.75.158

Security

Ethernet Interfaces Add, delete, modify Ethernet interfaces

Interface	IP address/mask	Default gateway	MTU	Mode
<input checked="" type="checkbox"/> eth0	172.16.0.217/21	None provided	1500	Auto
<input checked="" type="checkbox"/> eth1	None provided	None provided	1500	Auto
<input checked="" type="checkbox"/> eth2	172.16.15.194/21	None provided	1500	Auto
<input checked="" type="checkbox"/> mgmt	9.3.75.158/24	9.3.75.1	1500	Auto

Ethernet interfaces status

Interface	MAC address	Link status	Mode status	Collisions	Received				Transmitted				
					kilobytes	packets	errors	drops	kilobytes	packets	errors	drops	
eth0	00:1a:64:88:93:d9	no-link	10baseT-HD	0	0	0	0	0	0	0	0	0	0
eth1	00:14:5e:f1:d4:26	no-link	10baseT-HD	0	0	0	0	0	0	0	0	0	0
eth2	00:14:5e:f1:d4:28	no-link	10baseT-HD	0	0	0	0	0	0	0	0	0	0
mgmt	00:1a:64:88:93:d8	ok	100baseT	0	8371	94995	0	0	2327	2816	0	0	0

Link status

Check for collisions

Received errors or drops?

Transmitted errors or drops?

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The Ethernet interfaces settings allow you to review Ethernet definitions and to add, change, or delete these definitions. The status portion of the screen allows you to review the individual Ethernet interfaces. This includes MAC address, link status, mode status, number of collisions, the number of kilobytes sent and received, the number of packets sent and received, and the number of errors and dropped packets.

Domain name servers

The screenshot displays the 'WebSphere CloudBurst' interface. At the top, there is a navigation bar with 'Welcome', 'Virtual Systems', 'Patterns', 'Catalog', and 'Cloud'. Below this, the page is titled 'Appliance settings for 9.3.3.3'. The 'Domain Name Servers' section is expanded, showing a list of servers: '9.3.3.11' and '9.3.3.1' (both with red 'x' icons indicating they can be removed), and '9.3.3.3' (with a plus icon indicating it can be added). A 'Click to add' link is visible below the list. A yellow callout bubble points to the '9.3.3.11' entry with the text 'Add, delete or review DNS'. Below the list is a 'Lookup host name or IP address' section with a text input field containing 'server3.mycompany.com' and a 'Lookup' button. A second yellow callout bubble points to the 'Lookup' button with the text 'Validity check host names or IP addresses'. Below the input field, the results are shown: 'Host name: server3.mycompany.com' and 'IP address: 9.3.3.3'. The footer contains the number '8', the text 'Appliance settings', and the copyright notice '© 2010 IBM Corporation'.

The domain name server settings allow you to review, delete, and add domain name servers. It also provides a lookup function to allow you to verify host names or IP addresses, which assists you with validation of the environment.

Date and time

WebSphere CloudBurst

Welcome Virtual Systems Patterns Catalog Cloud

Appliance settings for 9.3.3.3

- Security
- Ethernet Interfaces
- Domain Name Servers
- Date and Time**

The current time is Dec 9, 2009 1:02:48 PM

The current time zone is EST (US Eastern Time)

NTP server addresses

someNTPserver.com ↑ ↓ ✕

someOtherNTPserver.com ↑ ↓ ✕

Click to add

Set time zone

Review, add, delete NTP servers

The date and time setting allows you to set the time zone for the appliance and to add, review, and delete network time protocol servers.

Mail delivery

The screenshot shows the WebSphere CloudBurst management console. At the top, there is a navigation bar with 'Welcome', 'Virtual Systems', 'Patterns', and 'Catalog'. Below this, the page title is 'Appliance settings for 9.3.3.3'. A list of settings categories is shown: Security, Ethernet Interfaces, Domain Name Servers, Date and Time, and Mail Delivery. The 'Mail Delivery' category is expanded, showing two settings: 'SMTP server' with the value 'someSMPT.server.com' and 'Reply-to address' with the value 'purple-box@Lab.com'. Two yellow callout boxes with black text point to these values: one labeled 'SMTP server' points to 'someSMPT.server.com', and another labeled 'Reply-to address' points to 'purple-box@Lab.com'.

The mail delivery settings allow you to add, delete, or change the SMTP server setting and reply-to address for the appliance. These settings are used by the appliance when it delivers notification messages to users defined within the appliance.

License management

The screenshot shows the 'License Management' section of the 'Appliance settings' page. It features a 'License Management' section with a checkbox for 'Track processor value units (PVUs) with IBM License Metric Tool'. Below this are fields for 'Server name' and 'Scan group', both showing 'None provided'. There is also an 'Upgrade' section with a text input field, a 'Browse...' button, and an 'Upgrade' button. Four yellow callout boxes point to these elements: 'Track PVUs with IBM License Metric Tool', 'Server name', 'Scan group', and 'Upgrade IBM License Metric Tool agent'.

Track PVUs with IBM License Metric Tool

Mail Delivery

License Management

Track processor value units (PVUs) with IBM License Metric Tool

Server name None provided

Scan group None provided


Upgrade the IBM License Metric Tool agent that is added to your virtual machines:


Upgrade IBM License Metric Tool agent

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The license management settings allow you to enable the IBM License Metric Tool on the virtual machines that you deploy and to upgrade its associated agents.

Backup and restore

 **License Management**

 **Backup and Restore**

Click each
step to see
settings

[Step 1: Find a place to store your backups](#)

[Step 2: Secure your backups](#)

[Step 3: Schedule a new backup](#)

[Step 4: Restore from a backup](#)

Using the backup and restore settings, you can ensure that the appliance can be restored when required. Click each step to see the settings. The four steps involved in setting up the backup and restore environment are: Step 1: Find a place to store your backups, Step 2: Secure your backups, Step 3: Schedule a new backup, and Step 4: Restore from a backup.

Backup and restore – store your backups

+ License Management

- Backup and Restore

[Step 1: Find a place to store your backups](#)

This step is required. You must specify where backups will be stored.

Host:

Path:

User name:

Password: [\[edit\]](#)

Specify host for your backups

Specify path to store backup

Specify credentials

When you click “Step 1: Find a place to store your backups”, the screen expands to allow you to specify the host system, directory path and host credentials where backups are stored.

Backup and restore – secure your backups

+ License Management

- Backup and Restore

Step 1: Find a place to store your backups

Step 2: Secure your backups

This step is required. You must generate a keypair or provide your own certificate.

Generate your own keypair

Upload your own certificate

Generate your own keypair by providing a password...

...or upload your own certificate

When you click “Step 2: Secure your backups”, you must then generate your own keypair or upload your own certificate to secure the backup images.

Backup and restore - schedule a new backup

+ License Management

- Backup and Restore

Step 1: Find a place to store your backups

Step 2: Secure your backups

Step 3: Schedule a new backup

Select a date and time to create the backup (the default is right now).

Your backup has been scheduled. You can view it in [Tasks](#).

Specify the date and
time to create your
backup

Review progress
in Tasks list

Once you click “Step 3: Schedule a new backup”, you can then specify the date and time when the backup is to occur. The default date and time is “right now”. You will review a message confirming that the backup is scheduled, with a link to the Tasks list so you can review the progress of the backup.

Backup and restore - restore from backup

License Management

Backup and Restore

Step 1: Find a place to store your backups

Step 2: Secure your backups

Step 3: Schedule a new backup

Step 4: Restore from a backup

Archive file date	Firmware version	Certificate issuer	Certificate subject	Serial Number	
11:08 Sat, Nov 21, 2009	1.1.0.0-17266	O=IBM WebSphere Rainmaker CN=Backup and Restore	O=IBM WebSphere Rainmaker CN=Backup and Restore	17349526172274787650	Restore

backupPrivateKey

....

The private key has been uploaded - you can now start the restore.

1. Select the backup you want

2. Type backup private key and password

3. Upload the backup

4. When uploaded, start the restore

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When you click “Step 4: Restore from a backup” you will see a list of backup images on the host server. Once you select the backup you want, you will see an input field for the backup private key and password. After providing that information, you click **Upload** to begin the upload of the image. Once you see a confirmation message that the image is uploaded, you can then click **Restore** to begin the restore of the image.

Firmware

+ Backup and Restore**- Firmware**

The current firmware version is WebSphere CloudBurst 1.1.0.0-17266

cloudburst.firmware.1100.172

Browse...

... 0 MB

Upgrade



1. Navigate to
new firmware
file

2. Click Upgrade and this
spinning icon is displayed

3. Upload progress
indicator is displayed
until installation begins

The firmware settings allow you to see the current firmware level that is installed on the appliance and to optionally upgrade the firmware. To upgrade the firmware level, click the **Browse** button to navigate to the firmware upgrade file on your client computer. Then click the **Upgrade** button to begin the upgrade. You will see a spinning activity icon to indicate that the upload of the upgrade image has begun, and you will see an upload progress indicator. Once the upload is completed, you will see a message indicating the upgrade of the appliance has begun.

Power administration

The screenshot shows the 'Power' section of the 'Appliance settings' interface. It features two main options: 'Restart the appliance' (with a refresh icon) and 'Shut down the appliance' (with a power icon). Below these are two overlapping dialog boxes. The first dialog, titled 'When do you want to restart?', has radio buttons for 'Wait until active tasks have completed' and 'Immediately'. The second dialog, titled 'When do you want to shut down?', also has radio buttons for 'Wait until active tasks have completed' and 'Immediately', and includes 'OK' and 'Cancel' buttons. Yellow callout boxes point to these elements: 'Restart?' points to the refresh icon; 'Shutdown?' points to the power icon; 'Do it now!' points to the 'Immediately' option in the restart dialog; 'Cancel my request' points to the 'Cancel' button in the shutdown dialog; and 'Wait until active tasks complete?' points to the 'Wait until active tasks have completed' option in the shutdown dialog.

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The power portion of the settings allow you to restart or shutdown the appliance. For both options, you will see a popup that allows you to restart or shutdown only when all active tasks have completed or perform the function immediately, or you can cancel the function.

Create users

The screenshot shows the WebSphere CloudBurst administrator interface. The top navigation bar includes 'Welcome, Administrator', 'Help', and 'About'. Below the navigation bar, the 'Appliance' menu is highlighted with a red dashed box. A dropdown menu is open, showing options: 'Settings', 'Users', 'User Groups', 'Task Queue', and 'Troubleshooting'. The 'Users' option is highlighted with a red box and a hand cursor. A yellow callout box points to this 'Users' option with the text 'Another way to user definition'. Another yellow callout box points to the 'Create users' link in the 'Step 1: Set up the appliance' section with the text 'One way to user definition'. The 'Create users' link is also highlighted with a red box. The page number '19' is visible in the bottom left corner, and the copyright notice '© 2010 IBM Corporation' is in the bottom right corner.

As an administrator, you can define the users that access the appliance. To access the user definition screen, click **Create users** under the topic “Step 1: Set up the appliance”. Alternatively you can click **Appliance** within the title bar, and within the pull-down that opens, click **Users**.

Create user detail

Users

Search...

Administrator

Click the "+" sign to create a new user



Provide the information for the new user

Password fields do not appear if you have LDAP security

Describe the user you want to add.

* User name: ✓

* Full name: ✓

Password: ✓

Verify password: ✓

* Email address: ✓

Once the **Users** list opens, click the plus sign to define a new user. Then in the right pane supply user name, full name, password, and password verification, and finally the e-mail address for the new user. The **Password** and **Verify password** fields do not display if you are using LDAP security.

Create user detail

Users	John Smith
Search...	User name: jsmith
Administrator	Email address: jsmith@mycompany.com
John Smith	Password: [edit]
user1	Current status: User has not logged in yet
user2	User groups: Everyone
	Add more...
	Authored patterns: (none)
	Authored cloud groups: (none)
	In the cloud now: (none)
	Permissions:
	<input checked="" type="checkbox"/> Deploy patterns in the cloud
	<input type="checkbox"/> Create new patterns
	<input type="checkbox"/> Create new catalog content
	<input type="checkbox"/> Cloud administration
	<input type="checkbox"/> Appliance administration
	<input type="checkbox"/> License tracking

After the new user is initially defined, you can then set specific permissions for the new user, including create new patterns, create new catalog content, cloud administration, appliance administration, and license tracking. The user detail panel also displays the group membership for the user, and allows you to add the user to other groups. It shows you the patterns and cloud groups that the user has created, and the virtual systems that the user has deployed.

Section

Summary

This section will summarize the settings presentation.

Summary

- Customize settings
 - Security
 - Ethernet interfaces
 - Domain name servers
 - Date and time
 - Mail delivery
 - License management
 - Backup and restore
 - Firmware
 - Power
- Create users

This presentation discussed the WebSphere CloudBurst appliance settings and creating new users. In the security settings, you can allow or disallow new users to create their own accounts, and set up and test LDAP security. In Ethernet interfaces, you can review, add, change, or delete Ethernet connection definitions and review statistics, including error and drop counts, for the Ethernet connections you have defined. Within the domain name servers setting, you can review, add, or delete domain name servers, and test IP and host names. You use the date and time setting to specify the time zone and to review, add, or delete network time protocol servers. Under mail delivery, you can specify the SMTP server and reply-to address for the appliance to use when sending notification e-mail to registered users. The license management setting allows you to configure and upgrade the IBM License Metric Tool. Within the backup and restore settings, you can provide the information needed for taking a backup image of your appliance and for restoring from a backup image. Under firmware settings, you can review the current firmware level settings and upgrade the firmware level. Finally, under power administration, you can restart or shutdown the appliance.

You saw how to create a new user account, how to review user information and how to specify user permissions.



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