

IBM WebSphere CloudBurst Appliance

Appliance initialization



This presentation will discuss steps to initialize the IBM WebSphere® CloudBurst™ appliance.

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- Summary

This presentation shows an overview of the IBM WebSphere CloudBurst appliance initial setup. It discusses the physical racking of the appliance. Then it discusses the initial firmware configuration using the serial connection cable and opening the WebSphere CloudBurst administrative console. It shows an overview of the customization of the “cbadmin” profile, followed by a summary of this presentation.

Overview of IBM WebSphere CloudBurst appliance initial setup

This section will present an overview of the IBM WebSphere CloudBurst appliance initial setup.

Appliance physical attributes

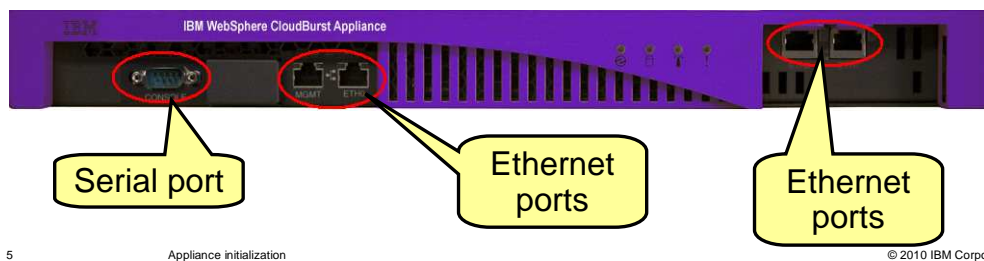
- WebSphere CloudBurst ships as an appliance
- 1U mountable appliance
- Installs onto a standard 19in (48.26cm) rack with a minimum of 25in (63.5cm) of depth
- Requires front and rear mounting support
- Standard clearance for appliance operation required



The IBM WebSphere CloudBurst appliance is a 1U mountable appliance that installs on a standard rack mount. The hardware appliance requires front and rear mounting support with standard clearance for appliance operation.

IBM WebSphere CloudBurst Appliance hardware

- WebSphere CloudBurst included hardware:
 - Power cables
 - Serial cable
 - Rack rails
- WebSphere CloudBurst interface:
 - Serial port for initial configuration
 - Four Ethernet ports
- Ethernet ports and serial port are on the front of the appliance



The IBM WebSphere CloudBurst Appliance has all the required hardware included with it to install it onto the rack, including two power cables, a serial interface connection cable, and rack rails.

To perform appliance initialization, you connect the serial interface cable from the front of the appliance to a serial interface connection port on a computer that is running a serial terminal emulator program.

Setting up WebSphere CloudBurst

- Initial setup of the appliance includes:
 - Secure the appliance in the rack using the supplied hardware
 - Connect the appliance to an AC power source (both power supply modules)
 - Connect the MGMT port to the network
 - Establish a connection to the CONSOLE connector from a system running terminal emulation software using the supplied serial cable
 - Power on the appliance
 - Initial firmware configuration

To set up the IBM WebSphere CloudBurst appliance, install the appliance on the rack using the supplied hardware. After the appliance is secured to the rack, connect the Ethernet port labeled MGMT to the local area network using an Ethernet cable. Connect two power cables to the appliance and plug them into a power source. If you plan to use a serial console to initialize the appliance, connect the serial cable from the console to the serial port on the front of the appliance and power on the console. If you want to use serial terminal emulation software, connect the serial connection cable to the serial port on the IBM WebSphere CloudBurst appliance and connect the other end of the cable to a computer system that is running the serial terminal emulation software. Finally, power on the appliance and perform the initial firmware configuration using the serial console or terminal emulation software.

Performing initial firmware configuration

This section will discuss the initial firmware configuration.

Initial firmware configuration

- Initial prompt after plugging in the serial console cable and turning on the appliance

```
Wed Aug 05 2009 17:21:37 [supervisor] Spawn: lightpd state=1 pid=0 stop=0 newpid=1101
Wed Aug 05 2009 17:21:37 [supervisor] Spawn: serial state=1 pid=0 stop=0 newpid=1103
Wed Aug 05 2009 17:21:37 [supervisor] Spawn: setupfs state=0 pid=0 stop=0 newpid=1111
Wed Aug 05 2009 17:21:37 [supervisor] Spawn: dpinfo state=0 pid=0 stop=0 newpid=1112
Wed Aug 05 2009 17:21:37 [supervisor] Spawn: drouter state=1 pid=0 stop=0 newpid=1115
Initializing hard disks...
Wed Aug 05 2009 17:21:47 [supervisor] Spawn: serial state=1 pid=1103 stop=0 newpid=1211
Wed Aug 05 2009 17:21:50 [supervisor] Spawn: serial state=1 pid=1211 stop=0 newpid=1256
Wed Aug 05 2009 17:21:53 [supervisor] Spawn: serial state=1 pid=1256 stop=0 newpid=1301
Wed Aug 05 2009 17:21:57 [supervisor] Spawn: serial state=1 pid=1301 stop=0 newpid=1346
Hard disks initialization is complete.

Welcome to the IBM WebSphere CloudBurst Appliance serial console.
Please press the 'c' key followed by the ENTER key to continue:
```

If the serial console or the terminal emulation software is connected when the appliance starts, you will see initialization messages. After the hard disks are initialized, you should see the “Welcome” message from the IBM WebSphere CloudBurst appliance, followed by a prompt message to type “c” and press ENTER. If you connect the serial console or the terminal emulation software after the appliance is already running, you might not see any messages at all. If that is the case, then press ENTER and the appliance should prompt you to type the letter “c” and press ENTER. After you type “c” and press ENTER, the appliance firmware initialization steps will begin.

Initial firmware configuration - Language

- Choose your preferred language
 - Language is selected only for the first time through the firmware configuration

```
id=1211
Wed Aug 05 2009 17:21:50 [supervisor] Spawn: serial state=1 pid=1211 stop=0 newp
id=1256
Wed Aug 05 2009 17:21:53 [supervisor] Spawn: serial state=1 pid=1256 stop=0 newp
id=1301
Wed Aug 05 2009 17:21:57 [supervisor] Spawn: serial state=1 pid=1301 stop=0 newp
id=1346
Hard disks initialization is complete.
.
Welcome to the IBM WebSphere CloudBurst Appliance serial console.
Please press the 'c' key followed by the ENTER key to continue: c
Select the language for use with Cloudburst:
1) English (en)
2) French (fr)
3) Italian (it)
4) Spanish (es)
5) German (de)
6) Japanese (ja)
7) Portuguese (Brazil) (pt_BR)
8) Chinese (China) (zh_CN)
9) Chinese (Taiwan) (zh_TW)
10) Korean (ko)
Select the language [1-10] (Default: 1): 1
```

The next step is to choose your language. You see this prompt only the first time you perform firmware configuration.

Initial firmware configuration – License

- Read license agreements
- Accept or reject the license agreement
 - Type “[Y/y]” once for each of the four multi-page license agreements
 - You are prompted for this only the first time through the firmware configuration

```

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-> License 1 of 4, page 1 of 69.
-> Press [Enter] to go to next page, [Y/y] to accept, [N/n] to reject: y_

```

The next step is to read the license agreement. Pressing ENTER shows you the next page in each of the four license agreements. You must accept or reject each of the four multi-page license agreements by typing “y” or “n”. You will see this step only during the first time you perform firmware configuration.

Initial firmware configuration - password

- Enter the super user (“cbadmin”) password
 - Do **NOT** forget this password as it cannot be recovered without a factory reset, resulting in lost time and data

```

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The following entry will be the superuser password and should not be forgotten.
The password WILL BE VISIBLE on this console, so verify that
no untrusted parties can see this console before continuing.
Enter the new password for the user "cbadmin": _

```

The next step requires you to change the “cbadmin” super user password. The change prompt is seen only the first time you perform firmware configuration. Each time you configure the appliance thereafter you will need to enter the “cbadmin” password. Take particular care with this step, because if the password is forgotten, it cannot be recovered and the appliance must be returned to manufacturing. The password will display on the screen when it is typed, so you should ensure that no unauthorized person is viewing the terminal emulation screen or serial console. If you are using a serial terminal emulation program, remember that since the password displays on the screen, the password might also be viewable in the terminal software emulation session logs after the terminal session ends. This is helpful if you have forgotten the password but this also means you must secure those logs after you have completed initialization.

Initial firmware configuration – MGMT port

- Configure the IP address for the MGMT port
 - This port is clearly marked on the front of the appliance
 - You can configure the remaining three Ethernet ports once logged into the Websphere CloudBurst console

```
Please wait while the cbadmin password is set... Password is set.
```

```
Configure ethernet port MGMT...  
Enter the IP address. (Default: 9.3.75.158):
```

Of the four Ethernet ports on the front of the appliance, one is marked MGMT. In this step you are configuring the Ethernet port marked MGMT. Type the IP address that you want to configure for the IBM WebSphere CloudBurst administrative console, which is accessed using the MGMT port IP address.

Initial firmware configuration – Subnet mask

- Type the subnet mask in CIDR format
 - The number of bits in the address used to define the network (remaining bits used to define hosts)
 - Ex1: 255.255.255.0 = 24 (254 available hosts)
 - Ex2: 255.255.255.128 = 25 (126 available hosts)

```
Configure ethernet port MGMT...  
Enter the IP address. (Default: 9.3.75.158):  
Enter the subnet mask in CIDR format. (Default: 24):
```

Next you are required to provide the subnet in CIDR format. CIDR stands for Classless Inter-Domain Routing. This slide shows a few examples of CIDR format if you are not familiar with the format. If you press ENTER without typing any information, the CIDR defaults to 24.

Initial firmware configuration – Default gateway

- Configure the default gateway

```
Configure ethernet port MGMT...  
Enter the IP address. (Default: 9.3.75.158):  
Enter the subnet mask in CIDR format. (Default: 24):  
Enter the Default Gateway (Default: 9.3.75.1): _
```

Type the default gateway for the appliance, and press ENTER.

Initial firmware configuration – Physical mode

- Select physical mode of the Ethernet interface
 - You can let the appliance determine mode by choosing option 1

```
Enter the Default Gateway (Default: 9.3.75.1):
Select the Physical Mode of the ethernet interface. (Default: Auto)
1) Auto
2) 100baseTx-FD
3) 100baseTx-HD
4) 10baseT-FD
5) 10baseT-HD
6) 1000baseTx-FD
Enter 1-6:
```

In this step you have the option to choose your physical Ethernet interface mode. If you are not certain of the interface mode, choose the first option “Auto” and let the appliance determine the correct settings.

Initial firmware configuration - DNS

- Provide the primary Domain Name Server (DNS) IP address
 - Used to resolve host names and IP addresses defined within WebSphere CloudBurst
 - DNS must be able to perform forward and reverse lookups on all IP resources

```
Enter the Default Gateway (Default: 9.3.75.1):
Select the Physical Mode of the ethernet interface. (Default: Auto)
 1) Auto
 2) 100baseTx-FD
 3) 100baseTx-HD
 4) 10baseT-FD
 5) 10baseT-HD
 6) 1000baseTx-FD
Enter 1-6:
Enter the primary domain name server (DNS). (Default: 9.0.6.11):
```

Type the IP address of your Domain Name Server, or DNS. The DNS resolves host names and IP addresses defined within WebSphere CloudBurst. The DNS must be able to perform forward and reverse lookup for all IP resources, which means it must be able to resolve host names to IP addresses and IP addresses to host names.

Initial firmware configuration - summary

- Configuration summary
 - Configuration has been saved
 - Configuration process is set to loop
 - Disconnect serial cable to end configuration process
 - You can use serial cable at any time to reconfigure

```
2) 100baseTx-FD
3) 100baseTx-HD
4) 10baseT-FD
5) 10baseT-HD
6) 1000baseTx-FD
Enter 1-6:
Enter the primary domain name server (DNS). (Default: 9.0.6.11):
Network setup is complete.

Configuration Summary:
IP address: 9.3.75.158
Subnet mask: 24
Default gateway: 9.3.75.1
Physical mode: auto
Domain name server (DNS): 9.0.6.11
This completes the first boot process.
Point your web browser at https://9.3.75.158 for the web console
and login as "cbadmin" with the password you just entered.
You may login here again with any superuser userid if you need to reconfigure
the IP interface without the web console.

Welcome to the IBM WebSphere CloudBurst Appliance serial console.
Please press the 'c' key followed by the ENTER key to continue: _
```

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Appliance initialization

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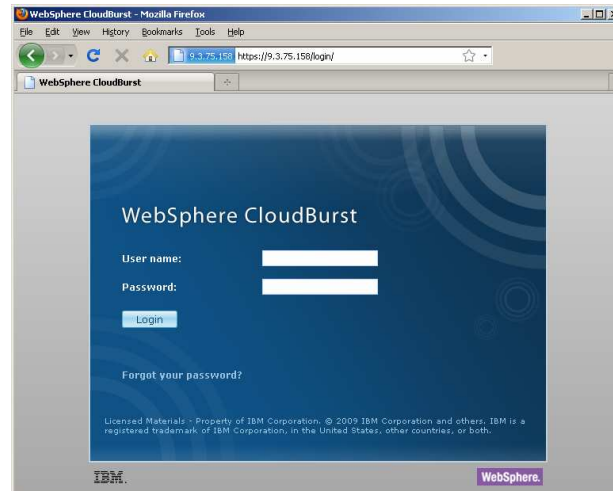
After you complete the initial configuration you will see a summary and have a chance to loop through the configuration again. If you type “c” and press ENTER to continue, you can redo the steps that you have just completed. If you are satisfied with your settings, you do not have to take further action, since the configuration is already saved. Simply disconnect the serial cable and shut down the serial console or the terminal emulation program. Open a browser, type in the MGMT IP address you defined for WebSphere CloudBurst and logon to the administrative console using the “cbadmin” super user account. You can now configure the remaining settings using the administrative console.

Logging on to the WebSphere CloudBurst administrative console

This section will discuss logging on to the WebSphere CloudBurst administrative console.

WebSphere CloudBurst administrative console

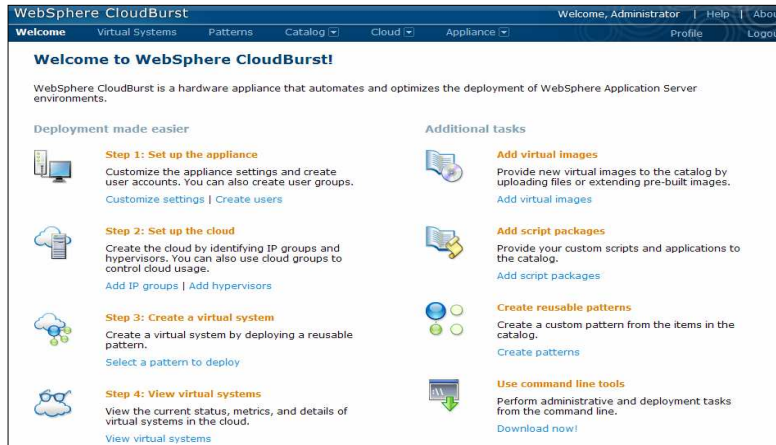
- Supports Firefox V3 or Internet Explorer V7 or V8
- Accessed using MGMT port defined during initial configuration
- Log in using super user account (“cbadmin”) defined during initial configuration



The WebSphere CloudBurst administrative console supports Microsoft® Internet Explorer Version 7 or Version 8 and Mozilla Firefox V3. The administrative console is accessed by the MGMT port IP address that you assigned during appliance initialization. Log in to the appliance using the super user account **cbadmin** and the password you configured.

Welcome screen

- Default page presented at log in to the WebSphere CloudBurst administrative console



The WebSphere CloudBurst welcome screen has a list of steps to help new users get WebSphere CloudBurst up and running quickly.

There are links associated with each setup step that help users navigate to the appropriate pages in the WebSphere CloudBurst console.

Each of the links that reside in the welcome screen navigate to pages that are available from the hyperlink tabs at the top of the console screen. The links allow you to configure appliance settings, configure cloud resources, work with patterns and virtual systems, and download the command line tools.

Customizing the cbadmin profile

This section will discuss how to customize the cbadmin profile using the WebSphere CloudBurst administrative console.

Customizing your profile

- Click “Profile” to see settings specific to the current user

Click
Profile



Clicking on the “Profile” link from the Welcome page brings you to the “Profile” page, where you can configure your password and e-mail address. If you are logged in with the “cbadmin” account, you can customize the profile for the super user account **cbadmin**.

Profile page of cbadmin

- Displays information about the user ID currently logged in
- You can change
 - Name
 - E-mail address
 - Password
 - Toggle on or off e-mail notifications for events related to virtual systems and virtual images
- Example is for **cbadmin** account

The screenshot shows the 'Profile settings for Administrator' page in the WebSphere CloudBurst interface. The page includes a navigation bar with 'Welcome, Administrator | Help | About' and a 'Profile' tab. The main content area contains the following settings:

Profile settings for Administrator	
Change your name	Administrator
Change your email address	None provided
Change your password [edit]
Receive email about your virtual systems	Enable
Receive email about virtual images	Enable

At the bottom of the page, there is a footer with '23 Appliance initialization' on the left and '© 2010 IBM Corporation' on the right.

The profile page allows you to change your password, set up an e-mail address, change your name, and toggle the settings on e-mail notification for your virtual systems and for virtual images.

If you select **enable** for “Receive e-mail about your virtual systems”, you receive e-mails for events related to your virtual systems, such as when virtual systems that you are deploying become available. If you select **enable** for “Receive e-mail about virtual images”, you receive e-mails for events related to virtual images, such as when virtual images are exported and imported.

Summary

This section summarizes the appliance initialization presentation.

Summary

- Overview of the IBM WebSphere CloudBurst appliance initial setup
 - Performing initial firmware configuration
 - Logging on to the WebSphere CloudBurst administrative console
 - Customizing the cbadmin profile

This presentation discussed the WebSphere CloudBurst appliance initial setup and configuration.

You saw an overview of the appliance initial setup. The overview included racking information and performing initial firmware configuration, logging onto the administrative console, and customizing the cbadmin profile.

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