

IBM Workload Deployer Appliance

Appliance settings



This presentation will discuss the settings for IBM Workload Deployer appliance.

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 - Security
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When you are setting up your IBM Workload Deployer 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 IBM Workload Deployer appliance. The settings include **application identification, security, Ethernet interfaces, domain name servers, date and time, mail delivery, backup and restore, migration, 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.

IBM Workload Deployer Appliance settings

This section will discuss a general overview of the IBM Workload Deployer Appliance settings.

Settings

IBM Workload Deployer

Welcome, Administrator | Help | About

Welcome Instances Patterns Catalog Reports Cloud Appliance Profile Logout

Settings
Users
User Groups
Task Queue
Monitoring
Troubleshooting

Download command line tool

IBM Workload Deployer

Setting up your private cloud

Step 1: Set up the appliance
Customize the appliance settings and create user accounts. You can also create user groups.
Customize settings | Create users

Step 2: Add IP groups
Add IP groups | Add cloud groups

Step 3: Add virtual images
Provide new virtual images to the catalog by uploading files or extending pre-built images.
Add virtual images | Add script packages

Step 4: Set up pattern types
Install and configure the pattern types to enable the creation of virtual application patterns.
Add pattern types | Settings for Platform Service

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After you have logged on to the IBM Workload Deployer 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



Appliance settings will allow you to customize appliance identification, security, Ethernet interfaces, domain name servers, date and time and mail delivery. It provides the ability to backup or restore your appliance, to migrate your appliance, to review and update firmware, and to power off or restart your appliance.

Appliance Identification

The screenshot shows the 'Appliance Identification' settings page in IBM Workload Deployer. The page title is 'Appliance settings for 9.3.75.158'. The 'Appliance Identification' section is expanded, showing three fields: 'Appliance name' (RMDP72), 'Appliance group' (None provided), and 'Appliance unique identifier' (6806177). Three yellow callout boxes point to these fields: 'Add or modify appliance name' points to the name field, 'Add or modify appliance group' points to the group field, and 'View appliance unique identifier' points to the unique identifier field.

Field	Value
Appliance name	RMDP72
Appliance group	None provided
Appliance unique identifier	6806177

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IBM Workload Deployer appliances can be named and assigned to appliance groups for easy identification on the network. The appliance unique identifier is the appliance serial number and cannot be changed.

The screenshot shows the 'Security' settings page in the IBM Workload Deployer interface. The page is titled 'Appliance settings for 9.3.75.158' and includes a navigation menu with options like 'Welcome', 'Instances', 'Patterns', 'Catalog', 'Reports', 'Cloud', 'Appliance', 'Profile', and 'Logout'. The 'Security' section is expanded, showing 'Permissions' and 'Sessions'.

Permissions:

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

Sessions:

- Logout inactive users after 24 hours. [edit]

External Authentication:

- Enable LDAP authentication:
- Name: None provided
- JNDI provider URL: None provided
- JNDI base DN (users): None provided
- JNDI base DN (groups): None provided
- Search filter (users): (&uid=(0)) (objectclass=inetOrgPerson)
- 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 (Yellow boxes):

- New users create their own accounts?** Points to the 'Allow new users to create their own accounts' setting.
- Allow local authentication** Points to the 'Allow local authentication' checkbox.
- Allow password reset from serial console?** Points to the 'Allow password reset from the serial console' setting.
- Set time interval for inactive users to be logged out** Points to the 'Logout inactive users after 24 hours' setting.
- LDAP enablement and settings** Points to the 'External Authentication' section.
- 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, and you can allow or disallow a password reset from within the serial console. Under Session, you can set the time interval for inactive users to be logged out. Allow local authentication allows users to be registered within the appliance itself, without using LDAP. External authentication allows you to enable LDAP authentication and provides the capability to test the LDAP user name and group name settings.

Ethernet interfaces

IBM Workload Deployer

Welcome, Administrator | Help | About

Welcome Instances Patterns Catalog Reports Cloud Appliance Profile Logout

Appliance settings for 129.40.24.129

Expand All Collapse All

Appliance Identification

Security

Ethernet Interfaces

Interface	IP address/mask	Default gateway	IPv6 Address/mask	Default gateway IPv6	MTU	Mode
<input checked="" type="checkbox"/> mgt0	129.40.24.129/26	129.40.24.190	None provided	None provided	1500	Auto
<input type="checkbox"/> mgt1	None provided	None provided	None provided	None provided	1500	Auto
<input checked="" type="checkbox"/> eth0	9.3.55.158	9.3.55.1	None provided	None provided	1500	Auto
<input type="checkbox"/> eth1	None provided	None provided	None provided	None provided	1500	Auto
<input type="checkbox"/> eth2	None provided	None provided	None provided	None provided	1500	Auto
<input type="checkbox"/> eth3	None provided	None provided	None provided	None provided	1500	Auto
<input type="checkbox"/> eth4	None provided	None provided	None provided	None provided	1500	Auto
<input type="checkbox"/> eth5	None provided	None provided	None provided	None provided	1500	Auto
<input type="checkbox"/> eth6	None provided	None provided	None provided	None provided	1500	Auto
<input type="checkbox"/> eth7	None provided	None provided	None provided	None provided	1500	Auto
<input type="checkbox"/> eth8 (10Gb)	None provided	None provided	None provided	None provided	1500	Auto
<input type="checkbox"/> eth9 (10Gb)	None provided	None provided	None provided	None provided	1500	Auto

Mode dropdown options: Auto, 10baseT-HD, 10baseT-FD, 100baseTx-HD, 100baseTx-FD, 1000baseTx-FD

Expand to view interfaces status

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The **Ethernet interfaces** settings allow you to review Ethernet definitions and to define or change these definitions. For each entry, you can define the IPV4 or IPV6 address, mask and gateway, the maximum transmission unit (MTU) and the Mode. The entries include the two management interfaces, the eight one-gigabit interfaces and the two ten-gigabit interfaces. The Mode column is a dropdown with the selections you see in this slide example. The **Ethernet interfaces status** portion of the screen allows you to review the individual Ethernet interfaces. The next slide shows you more about that portion of this screen.

Ethernet interfaces status

Ethernet interfaces status

Interface	MAC address	Link status	Mode status	Collisions	Received				Transmitted			
					kilobytes	packets	errors	drops	kilobytes	packets	errors	drops
mgt0	00:0b:ab:50:89:96	on	1000Mbps Full	0	21225509	38147195	0	0	83259137	73129466	0	0
mgt1	00:0b:ab:50:89:97	off	None provided	None provided	None provided	None provided	None provided	None provided	None provided	None provided	None provided	None provided
eth0	00:0b:ab:50:ba:50	on	1000Mbps Full	0	912255	951471	0	0	3259137	3129466	0	0
... eth 1 thru eth8 not shown to save space ...												
eth9	00:0b:ab:50:84:39	off	None provided	None provided	None provided	None provided	None provided	None provided	None provided	None provided	None provided	None provided

The **Ethernet interface 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 shows the 'Domain Name Servers' configuration page in IBM Workload Deployer. The page title is 'Appliance settings for 129.40.24.129'. The 'Domain Name Servers' section is expanded, showing two entries: '129.40.106.1' and '129.40.106.2', each with a red 'X' icon to its right. Below these entries is a 'Click to add' link. At the bottom of the section is a 'Lookup host name or IP address' input field and a 'Lookup' button. Two yellow callout boxes are present: one pointing to the red 'X' icons with the text 'Add, delete or review DNS', and another pointing to the 'Lookup' button with the text 'Validity check host names or IP addresses'.

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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

The screenshot displays the IBM Workload Deployer interface for configuring an appliance. The main navigation bar includes 'Welcome', 'Instances', 'Patterns', 'Catalog', and 'Reports'. The current page is 'Appliance settings for 129.40.24.129'. A sidebar on the left lists expandable sections: 'Appliance Identification', 'Security', 'Ethernet Interfaces', 'Domain Name Servers', and 'Date and Time'. The 'Date and Time' section is expanded, showing the current time as 'Sep 18, 2011 1:51:41 PM' and the current time zone as 'EST (US Eastern Time)'. Below this, the 'NTP server addresses' section shows a list with one entry: '129.40.106.38' with up and down arrows and a delete icon. A 'Click to add' link is present below the list. Two yellow callout boxes are overlaid on the image: one pointing to the time zone dropdown menu with the text 'Set time zone', and another pointing to the NTP server list with the text 'Review, add, delete NTP servers'. The footer contains the page number '11', the text 'Appliance settings', and the copyright notice '© 2011 IBM Corporation'.

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

IBM Workload Deployer

Welcome Instances Patterns

Appliance settings for 129.40.24.129

- Appliance Identification
- Security
- Ethernet Interfaces
- Domain Name Servers
- Date and Time
- Mail Delivery

SMTP server someSMPT.server.com

Reply-to address Deployer@lab.com

✓ Your settings were changed successfully

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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.

Backup and restore

+ Mail Delivery

- Backup and Restore

⚠ No backups have completed yet.

Reminder to set up your backups

Step 1: Store your certificate and private key

Step 2: Generate or upload the certificate and private key

Step 3: Configure backup storage

Step 4: Enable or disable backups

Step 5: Restore to a previous time

Click each step to see settings

Using the backup and restore settings, you can ensure that the appliance can be restored when required. If you have never set up for backups, you see a reminder message in this section. Click each step to see the settings. The five steps involved in setting up the backup and restore environment are: Step 1: Store your certificate and private key, Step 2: Generate or upload the certificate and private key, Step 3: Configure backup storage, Step 4: Enable or disable backups, Step 5: Restore to a previous time.

Backup and restore – store your certificate and private key

Backup and Restore

 No backups have completed yet.

Step 1: Store your certificate and private key

Specify where the certificate and private key can be stored. These credentials should only be shared with administrators trusted to perform a restore operation.

Host: p32g02.pbm.ihost.com

Path: /certs

User name: root

Password: [hide]

New password

Verify password

Submit

Test connection

Specify IP address or host for storing your certificate and private key

Specify User name

Specify path to store backup

Specify and verify password

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Appliance settings

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Although the certificate containing the public key pair is stored on the Workload Deployer appliance, the certificate and private key must not be stored on the appliance. They must be stored in a safe location. You must specify the safe location in which to store the certificate and private key. In the **Host** field, type the host name or IP address of the SSH host where you want to store the certificate and private key. In the **Path** field type the path to the directory on the SSH server where your certificate and private key are stored. In the **User name** field, type the user that is used to establish a connection with the SSH server. Then click **edit** by the **Password** field to see the password input fields. Type a password in the **New password** field for the user you just identified. Type the password again in the **Verify password** field and click **Submit**.

Backup and restore – generate or upload the certificate and private key

Step 2: Generate or upload the certificate and private key

Generate a self-signed certificate and keypair or provide your own certificate and private key.

Generate a self-signed certificate and keypair

Upload your own certificate

Upload your own private key

Generate your own
keypair by providing a
password...

...or upload your
own certificate

To protect the sensitive information that exists in your backup images, Rivest, Shamir, and Adleman (RSA) encryption is used. The certificate and private key protect your sensitive information as you back it up and restore it. The certificate and private key must either be provided or generated. If you generate your own certificate and keypair, they are stored automatically in the SSH server and path you identified in step one.

Backup and restore – configure backup storage

Step 3: Configure backup storage

Specify where backup artifacts should be stored. The location and credentials should be separate from those used to store the private key pair.

Host: MySSHBackupServer.com
Path: /backup
User name: root
Password: [hide]
New password
Verify password
Submit

Test connection

Type the IP address or host name of your SSH backup server

Type the path to the backup directory

Type the user name for the backup server

Type the password and verify it

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Appliance settings

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A backup storage location for the backup artifacts is required before you can schedule a backup image to be taken. This profile also provides the required parameters for establishing authentication to an external server with a Secure Shell (SSH) daemon running. To complete Step 3, type the IP address or host name of your backup server into the **Host** field. Then type the path to the backup directory into the **Path** field. In the **User name** field, type the user name for your backup server. Then in the **Password** field, click **edit** and then type and verify the password for the SSH user name.

Backup and restore – enable or disable backups

The screenshot shows the 'Step 4: Enable or disable backups' configuration page. It features two radio button options for backup frequency, a 'Backup now' button, a section for restricting backup times with 'From' and 'To' time pickers, and a checkbox for email notifications. Callout boxes highlight these features: 'Select to perform backups when you want...' points to the first radio button; 'Click "Backup now" to start a backup immediately' points to the 'Backup now' button; '... or alternatively, select to perform continuous backups' points to the second radio button; 'Optionally restrict time of virtual image backups' points to the 'Restrict backup of virtual images to the hours specified below' checkbox; and 'Email the administrator if a backup fails' points to the 'Email appliance administrators if backup operations fail' checkbox. A note states: 'In this mode, each backup will contain a full copy of your data.'

Step 4: Enable or disable backups

Only perform backups when explicitly requested.

Enable continuous backups of this appliance (every 60 minutes).

In this mode, each backup will contain a full copy of your data.

Restrict backup of virtual images to the hours specified below.

From:

To:

You must restrict image backups in order to change these values.

Email appliance administrators if backup operations fail.

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You can schedule backup images of your Workload Deployer environment to begin when you explicitly request a backup or repeatedly at hourly time intervals. You can click **Backup now** to initiate a backup immediately. If you choose continuous backups, you can specify the time period that the backup images are to include the virtual images by checking **Restrict backup of virtual images to the hours specified below** and then specifying the time range when virtual image backups are allowed. Optionally, you can select the check box **Email appliance administrators if backup operations fail**.

Backup and restore - restore from a previous time

Step 5: Restore to a previous time
Select a date and time in the past and provide your private key password.

Backup date:

Backup time:

Backup by appliance identifier:

Archive file date	Firmware version	Certificate issuer	Certificate subject	Serial Number
✘ 00:27 Fri, Sep 16, 2011	3.0.0.2-20110902073632	O=IBM Workload Deployer CN=Backup and Restore	O= IBM Workload Deployer CN=Backup and Restore	6800487

Private key...

Verify password

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The Workload Deployer appliance can be returned to a specific state by restoring from a backup image. The backup image is decrypted and streamed onto the appliance to return Workload Deployer to a previous state. Click the **Backup date** field to select the date of the backup to restore. The backup date does not have to be an exact date because the restore process searches the backup location to find the backup with the timestamp that is equal or less than the date and time that you provide. Click the **Backup time** field to select the time, on the date selected, of the backup to restore. The **backup time** field functions in a similar way as the **backup date** field, in that the time does not have to be an exact time because the restore process searches the backup location to find the backup with the timestamp that is equal or less than the date and time you specified. Change the **Backup by appliance identifier** if the backup was performed by another appliance. Type the password for the private key in the **Private key password** field, and verify it in the **Verify password** field. Then click **Restore**.

Migration – configure backup storage

- Migration on IBM Workload Deployer is a two-step process
- Step one - configure backup storage

Migration

Step 1: Configure backup storage

Specify where backup artifacts should be stored. The location and credentials should be separate from those used to store the private key pair.

Host: mycompany.ssh.backup.host.com
Path: /backup
User name: root
Password: [edit]

Type credentials

Type host name for SSH server where WebSphere® CloudBurst™ backup exists

Type the directory path to backup

If you have a backup archive from your IBM CloudBurst appliance, you can begin the migration function on the IBM Workload Deployer appliance. You must be logged in as the cbadmin user. Expand the Migration link. The migration function is a two-step process. This slide shows you the information you need for step one. You must provide the Host, Path, User name, and Password for the SSH server where the IBM WebSphere CloudBurst backup exists. In most cases, this is the same server information you used when you performed the backup on the CloudBurst appliance.

Migration – select a backup for migration

- A list of archive files display after Step one
 - Browser refresh is required for list to appear

Step 2: Select a backup for migration

Warning: Migrating data from a previous version of WebSphere CloudBurst Appliance will destroy all data currently stored on this appliance. Be sure you have read and understood the migration section of the Workload Deployer Information Center before beginning this process. The migration cannot be cancelled or reversed after it has begun.

Archive file date	Firmware version	Certificate issuer	Certificate subject	Serial Number
14:21 Wed, Apr 27, 2011	2.0.0.3-31276	O=IBM WebSphere CloudBurst CN=Backup and Restore	O=IBM WebSphere CloudBurst CN=Backup and Restore	18009972752276311909

Click "Migrate" by the backup file you want to select

Type "Private key" and "Passphrase"

Click "Upload" to begin the migration

Serial Number
18009972752276311909

Migrate

Private key...

Passphrase

Upload

Once you complete step one, refresh the browser screen and the IBM Workload Deployer will list all the available archive files available, listed under **Step 2**. Select the correct backup archive by clicking the Migrate link at the right of the file entry. The prompt displays below the Migrate button for the Private key and Passphrase. After that information is supplied, click the Upload button to start the migration function. Once you click "Upload" you cannot cancel the migration.

Firmware

The screenshot shows the 'Firmware' settings page. At the top, it displays the 'Current firmware level' as 'IBM Workload Deployer 3.0.0.2-20110902073632'. Below this, there is a text input field containing 'load_Deployer-3.0.0.3.scrpt3' and a 'Browse...' button. An 'Upgrade' button is located below the input field. A spinning activity icon is shown next to the 'Upgrade' button. To the right of the input field, there is a progress indicator showing '... 0 MB'. Three callout boxes provide instructions: 1. '1. Navigate to new firmware file' points to the 'Browse...' button. 2. '2. Click Upgrade and this spinning icon is displayed' points to the 'Upgrade' button. 3. '3. Upload progress indicator is displayed until installation begins' points to the '... 0 MB' progress indicator.

Current firmware level

Firmware

The current firmware version is IBM Workload Deployer 3.0.0.2-20110902073632

load_Deployer-3.0.0.3.scrpt3 Browse...

Upgrade

... 0 MB

1. Navigate to new firmware file
2. Click Upgrade and this spinning icon is displayed
3. Upload progress indicator is displayed until installation begins

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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 displays the 'Power' section of the 'Appliance settings' interface. It features two main options: 'Restart the appliance' and 'Shut down the appliance'. Two callout boxes, 'Restart?' and 'Shutdown?', point to these respective options. Below the main interface, two overlapping dialog boxes are shown. The first dialog, titled 'When do you want to restart?', has two radio button options: 'Wait until active tasks have completed' and 'Immediately'. A callout box 'Do it now!' points to the 'Immediately' option. The second dialog, titled 'When do you want to shut down?', also has two radio button options: 'Wait until active tasks have completed' and 'Immediately'. A callout box 'Wait until active tasks complete?' points to the 'Wait until active tasks have completed' option. Both dialog boxes include 'OK' and 'Cancel' buttons. A callout box 'Cancel my request' points to the 'Cancel' button in the shutdown dialog. The bottom of the slide contains the page number '22', the text 'Appliance settings', and the copyright notice '© 2011 IBM Corporation'.

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 displays the IBM Workload Deployer web interface. At the top, a navigation bar includes 'Welcome', 'Instances', 'Patterns', 'Catalog', 'Reports', 'Cloud', 'Appliance', 'Profile', and 'Logout'. The 'Appliance' menu is open, showing options: 'Settings', 'Users', 'User Groups', 'Task Queue', 'Monitoring', and 'Troubleshooting'. A yellow callout bubble points to the 'Users' option with the text 'Another way to user definition'. Below the navigation bar, the main content area features a large heading 'IBM Workload Deployer' and a 'Download command line tool' button. A section titled 'Setting up your private cloud' contains four steps: 'Step 1: Set up the appliance', 'Step 2: Set up the cloud', 'Step 3: Add virtual images', and 'Step 4: Set up pattern types'. A yellow callout bubble points to the 'Create users' link under Step 1 with the text 'One way to user definition'. The footer shows '23 Appliance settings' and '© 2011 IBM Corporation'.

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

Describe the user you want to add.

- * User name: jsmith ✓
- * Full name: John Smith ✓
- * Email address: jsmith@mycompany.com ✓
- * Password: ✓
- * Verify password: ✓

Provide the information for the new user

Password fields do not appear if you have LDAP security

OK Cancel

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

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Create user detail

John Smith [refresh] [close]

User name: jsmith

Email address: jsmith@mycompany.com

Password: [edit]

Current status: [lock icon] User has not logged in yet

Deployment Options: All [dropdown arrow]

User groups: Everyone [dropdown arrow]
Add more...

Author'd patterns: (none)

Author'd cloud groups: (none)

In the cloud now: (none)

Permissions:

- Deploy patterns in the cloud
- Create new patterns
- Create new environment profiles
- Create new catalog content
- Cloud administration
 - Read-only view
 - Full permissions
- Appliance administration
 - Read-only view
 - Full permissions
- IBM License Metric Tool (ILMT)

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After the new user is initially defined, you will see the user detail panel. You can make changes to the user definition, since the user has only the default settings. Determine if the deployment options are suitable for this user. Consider adding the user to the appropriate groups. Then set specific permissions for the new user as appropriate. User permissions include create new patterns, create new environmental profiles, create new catalog content, cloud administration, appliance administration, and IBM License Metric Tool. The user detail panel also 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
 - Application identification
 - Security
 - Ethernet interfaces
 - Domain name servers
 - Date and time
 - Mail delivery
 - Backup and restore
 - Migration
 - Firmware
 - Power
- Create users

This presentation discussed the IBM Workload Deployer 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 email to registered users. 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 migration, you see how to select an IBM WebSphere CloudBurst backup image and initiate your migration. 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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