Rational Directory Server

Installation Guide
Before using this information, be sure to read the general information under Appendix, “Notices” on page 45.

This edition applies to VERSION 5.1, IBM Rational Directory Server and to all subsequent releases and modifications until otherwise indicated in new editions.

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IBM Rational Directory Server Installation Guide

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About this manual

This manual guides you through the IBM® Rational® Directory Server (RDS) installation and uninstallation.

It contains the following sections:

- Introduction
- RDS documentation
- Types of RDS installations
- Modes of installations
- Preparing installation information
- Server Installation
- Server Removal
- Client Installation
- Client Removal

RDS documentation

This section provides the information on the related documents available for RDS. The following RDS documents are available on the Product Support Web site, https://www.ibm.com/software/rational/support/

<table>
<thead>
<tr>
<th>Document Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rational Directory Server Installation Guide</td>
<td>Provides information on how to install the RDS.</td>
</tr>
<tr>
<td>Rational Directory Server Product Manual</td>
<td>Provides detailed information on RDS features supported in this release.</td>
</tr>
<tr>
<td>Rational Directory Server Administration Manual</td>
<td>Provides information on RDS administration.</td>
</tr>
</tbody>
</table>
Contacting IBM Rational Software Support

If the self-help resources have not provided a resolution to your problem, you can contact IBM® Rational® Software Support for assistance in resolving product issues.

Note If you are a heritage Telelogic customer, a single reference site for all support resources is located at http://www.ibm.com/software/rational/support/telelogic/

Prerequisites

To submit your problem to IBM Rational Software Support, you must have an active Passport Advantage® software maintenance agreement. Passport Advantage is the IBM comprehensive software licensing and software maintenance (product upgrades and technical support) offering. You can enroll online in Passport Advantage from http://www.ibm.com/software/lotus/passportadvantage/howtoenroll.html

• To learn more about Passport Advantage, visit the Passport Advantage FAQs at http://www.ibm.com/software/lotus/passportadvantage/brochures_FAQs_quickguides.html.

• For further assistance, contact your IBM representative.

To submit your problem online (from the IBM Web site) to IBM Rational Software Support, you must additionally:

• Be a registered user on the IBM Rational Software Support Web site. For details about registering, go to http://www.ibm.com/software/support/.

• Be listed as an authorized caller in the service request tool.

Submitting problems

To submit your problem to IBM Rational Software Support:

1. Determine the business impact of your problem. When you report a problem to IBM, you are asked to supply a severity level. Therefore, you need to understand and assess the business impact of the problem that you are reporting.
Use the following table to determine the severity level.

<table>
<thead>
<tr>
<th>Severity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The problem has a critical business impact: You are unable to use the program, resulting in a critical impact on operations. This condition requires an immediate solution.</td>
</tr>
<tr>
<td>2</td>
<td>This problem has a significant business impact: The program is usable, but it is severely limited.</td>
</tr>
<tr>
<td>3</td>
<td>The problem has some business impact: The program is usable, but less significant features (not critical to operations) are unavailable.</td>
</tr>
<tr>
<td>4</td>
<td>The problem has minimal business impact: The problem causes little impact on operations or a reasonable circumvention to the problem was implemented.</td>
</tr>
</tbody>
</table>

2. Describe your problem and gather background information. When describing a problem to IBM, be as specific as possible. Include all relevant background information so that IBM Rational Software Support specialists can help you solve the problem efficiently. To save time, know the answers to these questions:

- What software versions were you running when the problem occurred?

  To determine the exact product name and version, use the option applicable to you:
  - Start the IBM Installation Manager and select **File > View Installed Packages**. Expand a package group and select a package to see the package name and version number.
  - Start your product, and click **Help > About** to see the offering name and version number.

- What is your operating system and version number (including any service packs or patches)?
- Do you have logs, traces, and messages that are related to the problem symptoms?
- Can you recreate the problem? If so, what steps do you perform to recreate the problem?
• Did you make any changes to the system? For example, did you make changes to the hardware, operating system, networking software, or other system components?
• Are you currently using a workaround for the problem? If so, be prepared to describe the workaround when you report the problem.

3. Submit your problem to IBM Rational Software Support. You can submit your problem to IBM Rational Software Support in the following ways:

   For more information about opening a service request, go to [http://www.ibm.com/software/support/help.html](http://www.ibm.com/software/support/help.html)

   You can also open an online service request using the IBM Support Assistant. For more information, go to [http://www.ibm.com/software/support/isa/faq.html](http://www.ibm.com/software/support/isa/faq.html).

• **By phone**: For the phone number to call in your country or region, go to the IBM directory of worldwide contacts at [http://www.ibm.com/planetwide/](http://www.ibm.com/planetwide/) and click the name of your country or geographic region.

• **Through your IBM Representative**: If you cannot access IBM Rational Software Support online or by phone, contact your IBM Representative. If necessary, your IBM Representative can open a service request for you. You can find complete contact information for each country at [http://www.ibm.com/planetwide/](http://www.ibm.com/planetwide/).
## Conventions used in this guide

<table>
<thead>
<tr>
<th>Typeface</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Italic</em></td>
<td>Used for book titles and terminology.</td>
</tr>
<tr>
<td><strong>Bold</strong></td>
<td>Used for items that you can select and menu paths, also used for emphasis.</td>
</tr>
<tr>
<td><strong>Courier</strong></td>
<td>Used for commands, file names, and directory paths. Represents command syntax to be entered verbatim. Signifies computer output that displays on-screen.</td>
</tr>
<tr>
<td><strong>Courier Italic</strong></td>
<td>Represents values in a command string that you supply. For example, (drive:\username\commands).</td>
</tr>
</tbody>
</table>
2 Introduction

The RDS is a single enterprise directory solution designed for user authentication and administration for IBM® Rational® Solutions for Enterprise Lifecycle Management tools. RDS allows the users to login using the same credentials across Enterprise Lifecycle Management tools for which they have authorized access.

The RDS 5.1 is designed to support a wide range of platforms. For more information on the platform support see Operating system requirements (page 11).

Obtaining the RDS software

You can download RDS from the support site at http://www.ibm.com/support/fixcentral/ or from the zip distribution.

Installation sequence

The RDS must be present in the system for the other tools to connect. You can install the RDS prior to or post other tools installation.
Types of RDS installations

The RDS provides two types of installations:

<table>
<thead>
<tr>
<th>Installation type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Server Installation</td>
<td>Installs RDS on a local machine. RDS provides user authentication and administration across Enterprise Lifecycle Management tools using the same credentials.</td>
</tr>
<tr>
<td>Client Installation</td>
<td>Installs the client (RDA) on a local machine. The client can access the server on the local machine or on a network.</td>
</tr>
</tbody>
</table>

Modes of installations

The RDS supports following modes of installations:

<table>
<thead>
<tr>
<th>Installation mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stand Alone</td>
<td>Enables you to administer and perform searches for the users and groups that exist locally.</td>
</tr>
<tr>
<td>Corporate LDAP Backbone Support</td>
<td>Enables you to configure the RDS to integrate with the external corporate LDAP repositories. You can use this option to enable your corporate backbone to serve as the user/group read-only repository for Enterprise Lifecycle Management tools.</td>
</tr>
<tr>
<td>OS Authentication</td>
<td>Enables you to configure the RDS to be part of a specific domain so as to enable the users to access the Enterprise Lifecycle Management tools using their domain login and password. The users are authenticated against the OS hosting the RDS.</td>
</tr>
</tbody>
</table>
Preparing installation information

Preparing installation information in advance can help you to complete the installation process quickly. Before starting the installation, consider creating a worksheet to hold the basic installation information, as described for a typical installation in the following table.

<table>
<thead>
<tr>
<th>Description</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Host Name</td>
<td>ExampleServer</td>
</tr>
<tr>
<td>Directory Server port number</td>
<td>1389 (default LDAP port)</td>
</tr>
<tr>
<td>Secure port number</td>
<td>1636 (default LDAP SSL port)</td>
</tr>
<tr>
<td>Directory Administrator password</td>
<td>Password must contain the following:</td>
</tr>
<tr>
<td></td>
<td>• Password must be of minimum 8 characters in length</td>
</tr>
<tr>
<td>Directory Administrator ID</td>
<td>tdsadmin (set by default)</td>
</tr>
<tr>
<td>Installation Directory</td>
<td>C:\Program Files\IBM\Rational\RDS_5.1</td>
</tr>
</tbody>
</table>

Frequently Asked Questions

1. *Which are the external LDAP servers supported by RDS?*
   

2. *What is the schema required by RDS in the external corporate server?*
   
   The user information are extracted from the corporate servers based on the person/inetOrgPerson schema class and the primary attributes cn, sn, email, uid, givenname, telephoneNumber, mail, facsimileTelephoneNumber, description, postalAddress, and sAMAccountName.

   The group information are extracted based on the group/groupOfUniqueNames schema class and the attributes member/uniqueMember, description.

3. *Do we need an Administrator privileges to create a partition?*
   
   You need a corporate LDAP server user with a Read access to the search bases specified in the partition.
4. **Is the Apache Server installed as a service?**
   
   No. This functionality will be added in a future release.

5. **Why DOORS do not show up a user after changing the name of the user from one ou to another in the corporate LDAP?**

   If the name of a user (firstname, lastname, cn etc.) is changed keeping the same UID, or if a user is moved from one OU to another in the corporate LDAP, DOORS may not show up the user. The reason is, the RDS has already created an extended user object with the **uid** as the user logon name (based on the logon attribute selected in the corporate partition) and **tdsCorporateDn** as the corporate DN of the user. If the corporate DN of the user changes in the corporate LDAP server, RDS will try to recreate the extended user object with the same user logon name (which is not changed in corporate LDAP) and would fail, as the user object with the same logon name already exists in the corporate LDAP. Hence, the particular user would not be shown in DOORS.

   To solve this issue, it is recommended to modify the required attributes of the extended user object in RDS. Deleting the extended user object also solves the issue but it may delete the DOORS specific values for that user object, which may lead to information loss.

6. **Is RDS supported on VMWare?**

   Currently, the RDS is not supported on a virtual environment.

7. **How do you change the Webserver port from 8080 to any other values for IBM Rational Directory Administration (RDA)?**

   To change the default port number:

   a. Edit the following lines in the *Server.xml* file located under 
      
      `<RDS_HOME/RDA_HOME>/WebAccessServer/apache-tomcat-6.0.16 (-6.0.24 for 5.1.0.1 and 5.1.0.2)/conf` folder:

      ```
      <Connector port="8090" protocol="HTTP/1.1"
      connectionTimeout="20000"
      redirectPort="8443" />
      <!-- A "Connector" using the shared thread pool-->
      ```

   b. Restart the RDA for the changes to take effect.

   **Note** The new port number is changed to 8090 in the above example.
This chapter contains the installation instructions for installing RDS on a Windows platform.

This chapter contains the following sections:

- System requirements
- Before installing RDS
- Installing RDS
- Post installation instructions
- Upgrading to a new release

System requirements

The following section includes the system requirements for the RDS.

**Industry standards**

The RDS is developed based on the following industry standards.

- LDAP v3 operations
- LDAP search filters
- LDAP v3 intelligent referral

**Operating system requirements**

The RDS is supported on the following platforms:

- Microsoft Windows Server 2003 Standard, Enterprise Edition (SP1 and R2)

The RDA is supported on the following platforms:

- Microsoft Windows XP SP2
- Microsoft Windows Vista
Disk space and memory requirements

Minimum system requirements for RDS

Ensure that sufficient disk space is available before installing the RDS. The following table shows the sample disk space requirement for RDS.

<table>
<thead>
<tr>
<th># of Entries</th>
<th>Minimum disk space required</th>
<th>Minimum memory required</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,000 - 250,000</td>
<td>2 GB</td>
<td>1-2 GB</td>
</tr>
<tr>
<td>250,000 - 1,000,000</td>
<td>4 GB</td>
<td>4 GB</td>
</tr>
<tr>
<td>Over 1,000,000</td>
<td>8 GB</td>
<td>4 GB</td>
</tr>
</tbody>
</table>

Requirements for RDA

Ensure that sufficient disk space is available before installing the RDA. The following table shows the minimum disk space requirement for RDA.

<table>
<thead>
<tr>
<th>Minimum disk space required</th>
<th>Minimum memory required</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 MB</td>
<td>512 MB RAM (/) and a 350MHz Pentium processor for Windows.</td>
</tr>
</tbody>
</table>
Before installing RDS

Before you install RDS, ensure that the system is equipped with the set of configurations recommended in this manual to avoid any installation errors. This section describes the following settings that must be in place.

- **What is not supported**

**What is not supported**

This section describes the modes or systems that are not supported by RDS. You must not use the modes or systems referred in this section to avoid any installation errors.

- **Console mode installation**

**Console mode installation**

The RDS does not support non-graphical or console mode installation. Hence, the options such as `-console` must not be used at the time of installation.
Installing RDS

To start the RDS installation, first unzip the RDS installer in a folder using the WinZip utility. Then, follow the RDS installation procedures given below.

You can go backward or forward at any time during the installation to change options. To abort the installation, click **Cancel**.

To Install RDS on Windows:

1. Ensure that **RDS.exe** is in the same Drive as the target installation Drive.
2. Open the `<RDS Image>\Install` folder and double-click the **RDS.exe**. The **Introduction** dialog box is displayed.

3. Click **Next**. The **License Agreement** dialog box is displayed.
4. You can save the license details in a document.

To copy the license information:
- Right click on the license window and click **Select All**, and then click **Copy**.
- Open any file, paste the license information and save the file.
5. Review and click I accept the terms of the license agreement.
6. Click **Next**. The **Choose Install Folder** dialog box is displayed.

You can use the default location provided by the installer or click **Choose** to specify a different location. You can also edit the path manually by clicking anywhere in the text box. To use the default location, click **Restore Default Folder**. This restores the default location provided by the installer.
7. Click Next. The Installation Mode dialog box is displayed.

8. RDS provides following modes of installations:
   - Stand-Alone
   - Corporate LDAP Backbone Support
   - OS Authentication

   In case of OS Authentication mode, you must provide the domain name.
9. In the **OS Authentication Mode** dialog box, type the Windows domain you want to log on to.

10. Select the install mode. By default, the **Stand-Alone** mode is selected by the installer. For more information on what each of these modes mean, refer to **Modes of installations (page 8)**.

The RDS installer also provides the option to install **Rational Directory Administration** tool. However, you can choose to install that separately. The Install Rational Directory Administration check box is selected by default. You can click to clear the check box, if you choose to install separately.
11. Click Next. The Desktop Shortcut dialog box is displayed.

This creates RDA shortcut on the desktop. The Create a shortcut to RDA on the desktop option is selected by default. You can click to clear the checkbox if you do not want the shortcut to be created on the desktop.
12. Click Next. The **Rational Directory Server Configuration** dialog box is displayed. This defines the configuration settings for the RDS.

13. Type the directory server configuration properties.

The field description and the value to be entered in each field is explained in the following table.

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Host Name</td>
<td>The host name of the computer.</td>
<td>By default, the installer uses the valid computer name. Use the default value provided by the installer or enter a valid computer name in this field.</td>
</tr>
<tr>
<td>Directory Server Port</td>
<td>The port number of the directory server.</td>
<td>By default, the installer uses the LDAP server port number “1389”. Use the default value provided by the installer or enter the valid port number for the computer in this field.</td>
</tr>
</tbody>
</table>
14. Click Next. Type the Directory Administrator User password.

![Rational Directory Server Administration](image)

The field description and the value to be entered in each field is explained in the following table:

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secure Port</td>
<td>The LDAP Secure Socket Layer (SSL) port number. The SSL is enabled by default by the installer using the secure port number provided during the installation.</td>
<td>By default, the installer uses the secure LDAP port number “1636” to enable the SSL. Use the default value provided by the installer or enter the valid secure port number in this field.</td>
</tr>
<tr>
<td>Rational Directory Server Administrator</td>
<td>The admin user for the RDS.</td>
<td>The RDS administrator ID is set by default. The administrator ID cannot be modified.</td>
</tr>
</tbody>
</table>
15. Click Next.

The Pre-Installation Summary dialog box is displayed. This dialog box shows the installation summary.
16. Review the information, and then click **Install**.

The **Install Complete** dialog box is displayed if the installation is successful.
17. Click **Done** to exit the installer.
Post installation instructions

This section details the basic checks that you can perform to ensure that the installation has went through fine.

This section contains the following components:

- Server startup
- Starting the Web server
- Review log files

**Server startup**

Ensure that the server is started after the installation. In case the server is not started automatically, start the server manually using the following command.

```
<RDS_Install_Dir>\IBM\Rational\RDS_5.1\RDSUtility\rdsctl.bat start
```

For example:

```
C:\Program Files\IBM\Rational\RDS_5.1\RDSUtility\rdsctl.bat start
```

**Starting the Web server**

After installing the RDS, start the Web server using the following batch script:

```
<RDS_Install_Dir>\WebAccessServer\Start_RDAWebServer.bat
```

For example:

```
C:\Program Files\IBM\Rational\RDS_5.1\WebAccessServer\Start_RDAWebServer.bat
```
Chapter 3: Server Installation

Review log files

1. If the installation is corrupted and the server is not started, review the following log file carefully for any errors.
   - `C:\Program Files\IBM\Rational\RDS_5.1\RDS_5.1_InstallLog.log`
   - `<RDSInstall_home>\apacheds_1.5.4\var\log`
   - `<RDS_InstallHome>\logs`

   **Note** The above listed log files must be sent along with other relevant information to the support specialist while reporting the errors. For more information on reporting the errors, see *Contacting IBM Rational Software Support* (page 2).

Upgrading to a new release

To upgrade the IBM Rational Directory Server to a new release, download the latest RDS installer from [http://www.ibm.com/support/fixcentral/](http://www.ibm.com/support/fixcentral/), install the newer version of RDS on your computer. For more information on installing the RDS see, *Installing RDS* (page 14).

After installing the RDS, perform an online data migration between the Apache instances using the RDA tool. For more information on migration see, *Rational Directory Server Product Manual* or the online help.

   **Note** The previous RDS installation can co-exist on the same machine.
4

Server Removal

Removing the RDS

This chapter describes the steps to remove RDS. Remove the server with the same user account that was used for installation.

To remove RDS, do the following:

1. Stop the Apache server by pressing the CTRL+C key on the startup console if the server is manually started.
2. Stop the RDS Web Access Server by pressing the CTRL+C key on the Web Access Server startup console.
3. Remove the Rational Directory Server using the options:
   - Choose Add/Remove Programs from the Control Panel.
   - Double-click the UninstallRDS 5.1.exe from:
     <RDS_Install_Dir>/UninstallRDS5.1
     The Uninstall RDS 5.1 dialog box appears.
4. Click Uninstall to remove the RDS.
Chapter 4: Server Removal

The **Uninstaller** removes the components one by one. After removing all the components successfully, the **Uninstall Complete** dialog box appears.

5. Click **Done** to exit the installer.
5

Client Installation

IBM® Rational® Directory Administration (RDA) is a GUI based client application used to perform day-to-day administration tasks such as creating users, groups, roles, performing searches, migrating data, etc.

The RDA is available as a web-based tool that you can access using a browser.

Installing the RDA

This chapter describes the steps required to install RDA. To start the installation, first unzip the RDA installer in a folder using the WinZip utility. Then, follow the installation procedure below.

To install RDA do the following:

1. Open the <RDA Image>\Install folder and double-click the RDA.exe. The Introduction dialog box appears.
Chapter 5: Client Installation

2. Click Next. The License Agreement dialog box appears.

3. You can also save the license details in a document.
   To copy the license information do the following:
   • Right click on the license window and click Select All, and then click Copy.
   • Open any file, paste the license information and save the file.

4. Review and click I accept the terms of the license agreement.
5. Click **Next**. The **Choose Install Folder** dialog box appears.

You can use the default location provided by the installer or click **Choose** to specify a different location. You can also edit the path manually by clicking anywhere in the text box. To use the default location, click **Restore Default Folder**. This restores the default location provided by the installer.
Chapter 5: Client Installation

6. Click Next. The Desktop Shortcut dialog box appears. By default, the Create a shortcut to RDA on the desktop option is checked. Click to clear the check box if you do not want the shortcut to be created.
7. Click Next. The Pre-Installation Summary dialog box appears. This dialog box displays the installation summary.

8. Review the information and click Install.

The Install Complete dialog box appears if the installation is successful.
9. Click **Done** to exit the installer.

**Note** After installing the RDA, **start** the Web server using the following command:

```
<RDA_Install_Dir>\WebAccessServer\Start_RDAWebServer.bat
```
6

Client Removal

Removing the RDA

This chapter describes the steps required to remove RDA.

To uninstall RDA, do the following:

1. Stop the RDS Web Access Server by pressing the CTRL+C key on the Web Access Server startup console.

2. Remove RDA using one of the options:
   - Choose Add/Remove Programs from the Control Panel.
   - Double-click Uninstall RDA 5.1.exe from the path:
     `<RDA_Install_Dir>/UninstallRDA5.1`

The Uninstall RDA 5.1 dialog box appears.
3. Click **Uninstall** to remove RDA.

4. The **Uninstaller** removes the components one by one. The **Uninstall Complete** dialog box appears if the uninstallation is successful.
5. Click **Done** to exit the installer.
Chapter 6: Client Removal
7 Launching RDA

This chapter describes how to launch the RDA application.
You can launch RDA from any machine by providing the appropriate URL. RDA is supported on Internet Explorer and Mozilla browsers.

**Note** The RDA web server starts automatically during installation.

To start the RDA, do the following:
1. If the RDA web server is not started automatically, run the following command to **start** the web server.
   `<RDA_Install_Dir>\WebAccessServer\Start_RDAWebServer.bat`
   For example:
   `C:\Program Files\IBM\Rational\RDA_5.1\WebAccessServer\Start_RDAWebServer.bat`
2. Open the browser and type the following URL
   `http://<hostname>:8080/webrda/rda`
   For example:
   `http://rdsserver:8080/webrda/rda`
   **Note** The `<hostname>` refers to the name of the server where the RDS is installed.
3. The **RDS Login** dialog box appears.
4. On the **Login** dialog box, type the details as:

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RDS URL</strong></td>
<td>The LDAP URL should include a valid server name and a port number that was given at the time of RDS installation. For example: <code>ldap://dirserv:1636</code>. To open the RDS in secure mode, you can include the letter &quot;s&quot; to the <code>ldap</code> URL (where the &quot;s&quot; refers to the secure port), followed by a valid server name and a port number. For example: <code>ldaps://dirserv:1636</code>.</td>
</tr>
<tr>
<td><strong>RDS Admin</strong></td>
<td>The admin user name for RDS. The admin user <code>tdsadmin</code> is set by the RDS installer.</td>
</tr>
<tr>
<td><strong>Password</strong></td>
<td>The admin password set at the time of RDS installation.</td>
</tr>
</tbody>
</table>

5. Click **Login**.
This chapter describes the possible problem and solutions for RDS users.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Client cannot locate the server.</td>
<td>Use the host name, such as <code>rdsserver</code>. Make sure the server is listed in the name service you are using such as DNS, and try the fully qualified domain name (for example, rdsserver.example.com). Use the IP address for the host (for example, 192.168.2.60).</td>
</tr>
<tr>
<td>Reason for the server installation failure is not known. Cannot find</td>
<td>The RDS log file <code>RDS_5.1_InstallLog.log</code> can be found at the root level of the installation folder: C:\Program Files\IBM\Rational\RDS_5.1\RDS_5.1_InstallLog.log Refer to additional log files under the installation folder:</td>
</tr>
</tbody>
</table>
| error log                                                               | • `<RDSInstall_home>\apacheds_1.5.4\var\log`  
• `<RDS_InstallHome>|logs`  
E.g C:\Program Files\IBM\Rational|RDS_5.1\logs                                                                                   |
| When the server is started, the following error message appears in the | Ignore this message.                                                                                                                                                                                    |
| command prompt: Error                                                   |                                                                                                                                                                                                        |
| [org.apache.directory.server.core.entry.DefaultServerAttribute]        |                                                                                                                                                                                                        |
| -The value 'inetOrgPerson' is incorrect, it hasn't been added.         |                                                                                                                                                                                                        |
## Terms and Concepts

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS authentication</td>
<td>Operating system authentication is the process of proving the identity of the client user to the Directory Server based on the operating system logon name.</td>
</tr>
<tr>
<td>SSL</td>
<td>Secure Sockets Layer. SSL is a software library establishing a secure connection between client and server.</td>
</tr>
<tr>
<td>RDS Client</td>
<td>A RDS client is a interface that requests services or information from a server.</td>
</tr>
</tbody>
</table>
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