

Rational. Directory Server



Installation Guide

IBM Rational Directory Server
Installation Guide
Release 5.0

Before using this information, be sure to read the general information under Appendix, [“Notices” on page 45](#).

This edition applies to **VERSION 5.0, IBM Rational Directory Server** and to all subsequent releases and modifications until otherwise indicated in new editions.

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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/>

Document Name	Description
Rational Directory Server Installation Guide	Provides information on how to install the RDS.
Rational Directory Server Product Manual	Provides detailed information on RDS features supported in this release.
Rational Directory Server Administration Manual	Provides information on RDS administration.

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.

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

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:
- **Online:** Go to the IBM Rational Software Support Web site at <https://www.ibm.com/software/rational/support/> and in the Rational support task navigator, click **Open Service Request**. Select the electronic problem reporting tool, and open a Problem Management Record (PMR), describing the problem accurately in your own words.

For more information about opening a service request, go to <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>.
 - **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/> 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/>.

Conventions used in this guide

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

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Introduction

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.

RDS 5.0 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/software/rational/support/> or from the zip distribution.

Installation sequence

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

Types of RDS installations

The RDS provides two types of installations:

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

Modes of installations

The RDS supports following modes of installations:

Installation mode	Description
Stand Alone	Enables you to administer and perform searches for the users and groups that exist locally.
Corporate LDAP Backbone Support	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.
OS Authentication	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.

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..

Description	Example
Host Name	ExampleServer
Directory Server port number	1389 (default LDAP port)
Secure port number	1636 (default LDAP SSL port)
Directory Administrator password	Password must contain the following: <ul style="list-style-type: none"> • Password must be of minimum 8 characters in length
Directory Administrator ID	tdsadmin (set by default)
Installation Directory	C:\Program Files\IBM\Rational\RDS_5.0

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Server Installation

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](#)

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 2003 Standard, Enterprise Edition
- 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.

# of Entries	Minimum disk space required	Minimum memory required
10,000 - 250,000	2 GB	1-2 GB
250,000 - 1,000,000	4 GB	4 GB
Over 1,000,000	8 GB	4 GB

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.

Minimum disk space required	Minimum memory required
300 MB	512 MB RAM (/ and a 350MHz Pentium processor for Windows.

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.

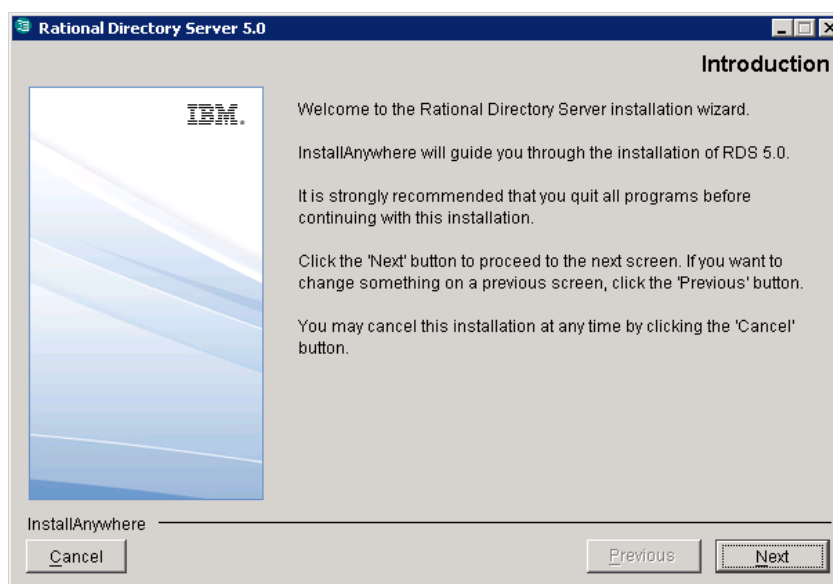
Installing RDS

To start the RDS installation, first unzip the RDS installer in a folder using the Win-Zip 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.

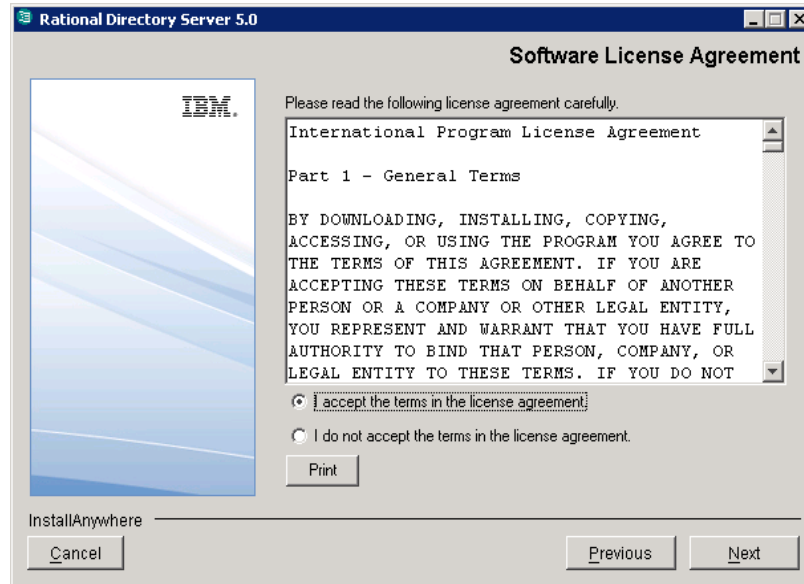


3. Click **Next**. The **License Agreement** dialog box is displayed.
4. You can save the license details in a document.

To copy the license information:

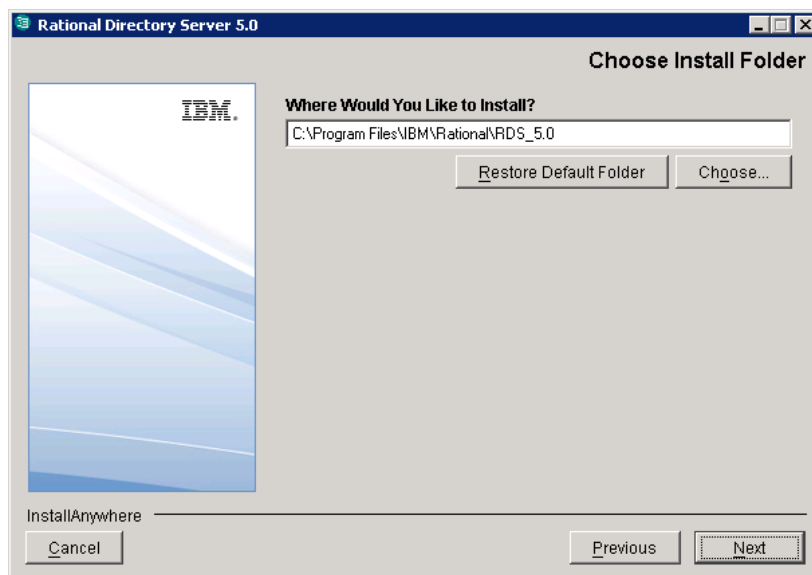
- Right click on the license window and click **Select All**, and then click **Copy**.
- Open any file, paste the license information and save the file.

5. Review and click **I accept the terms of the license agreement.**

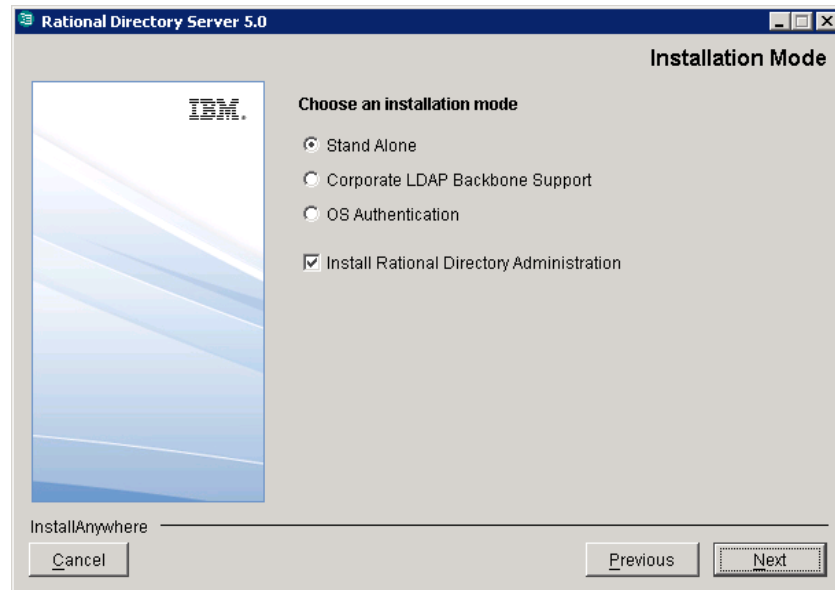


6. Click **Next**. The **Choose Install Folder** dialog box is displayed.

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.



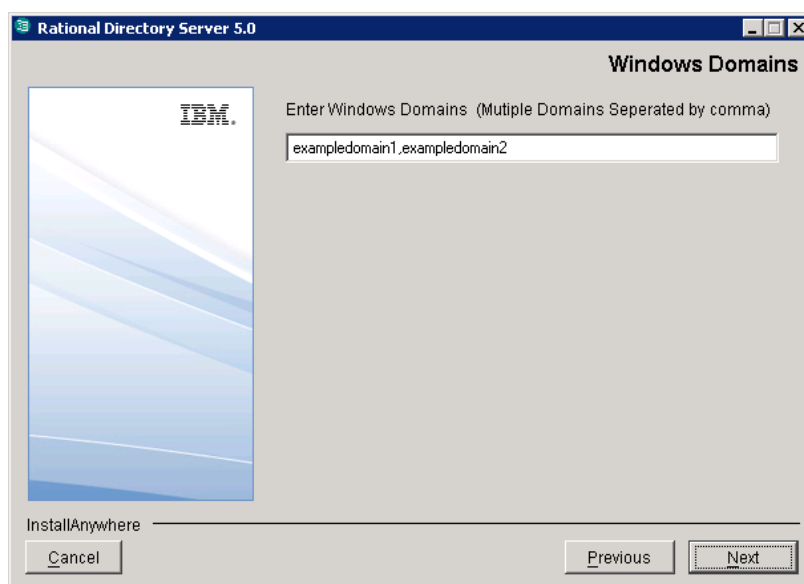
7. Click **Next**. The **Installation Mode** dialog box is displayed.



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.

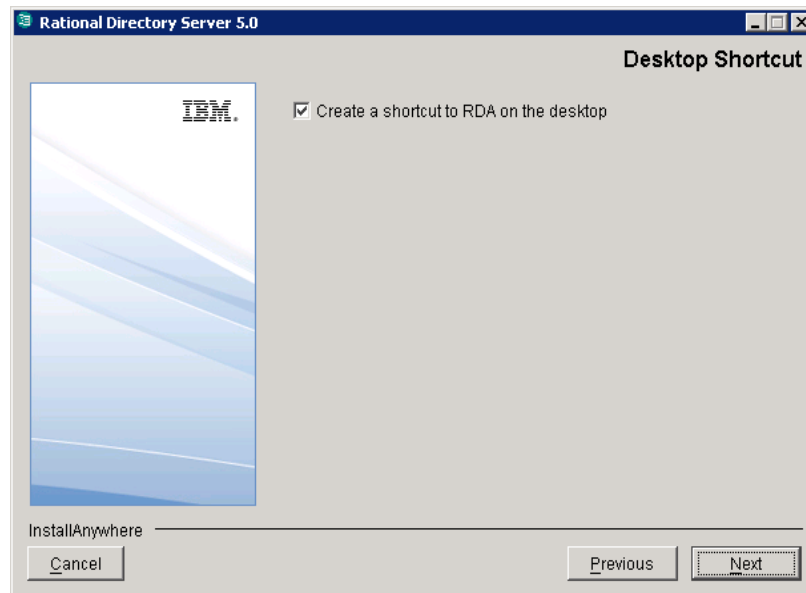


10. Select the install mode. By default, the **Stand-Alone** mode is selected by the installer. For more information on what each of these modes mean, refer to [Modes of installations \(page 8\)](#).

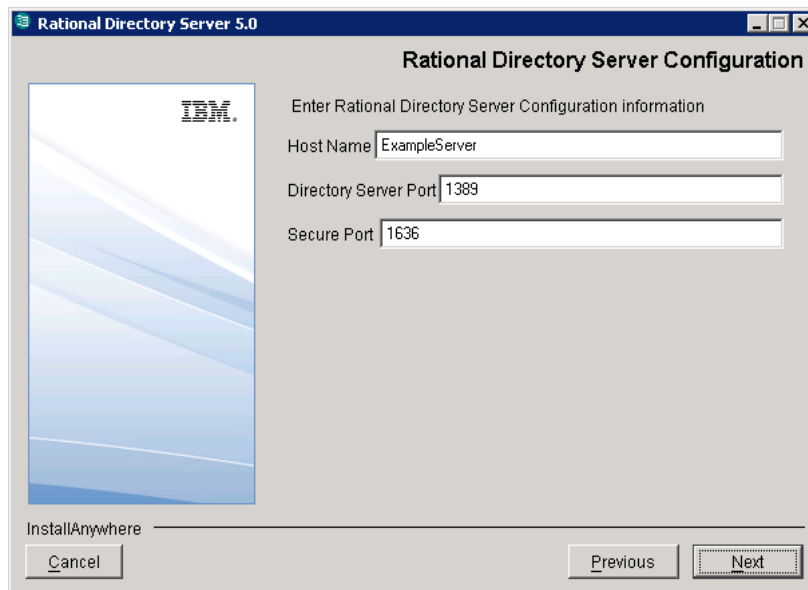
The RDS installer also provides the option to install **Rational Directory Administration** tool. However, you can choose to install that separately. The **Install Rational Directory Administration** check box is selected by default. You can click to clear the check box, if you choose to install separately.

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.

Field Name	Description	Values
Host Name	The host name of the computer.	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.
Directory Server Port	The port number of the directory server.	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.

Field Name	Description	Values
Secure Port	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.	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.

14. Click **Next**. Type the **Directory Administrator User** password.

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

Field Name	Description	Values
Rational Directory Server Administrator	The admin user for the RDS.	The RDS administrator ID is set by default. The administrator ID cannot be modified.

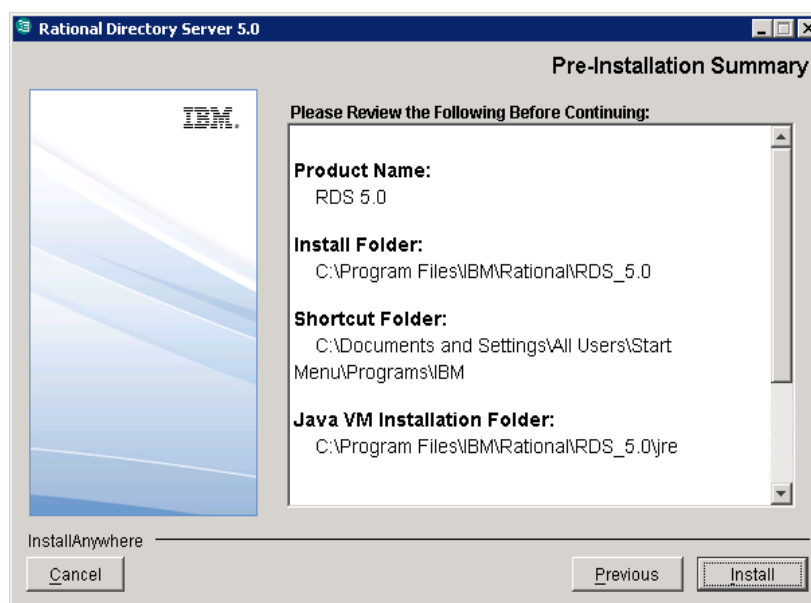
Field Name	Description	Values
Administrator Password	The password for RDS admin user.	Type the administrator password. The password must be of minimum 8 characters in length.
Confirm Password	This describes the password authentication for the RDS admin user.	Re-enter the password in this field. Both passwords should match for the installation to continue.

15. Click Next.

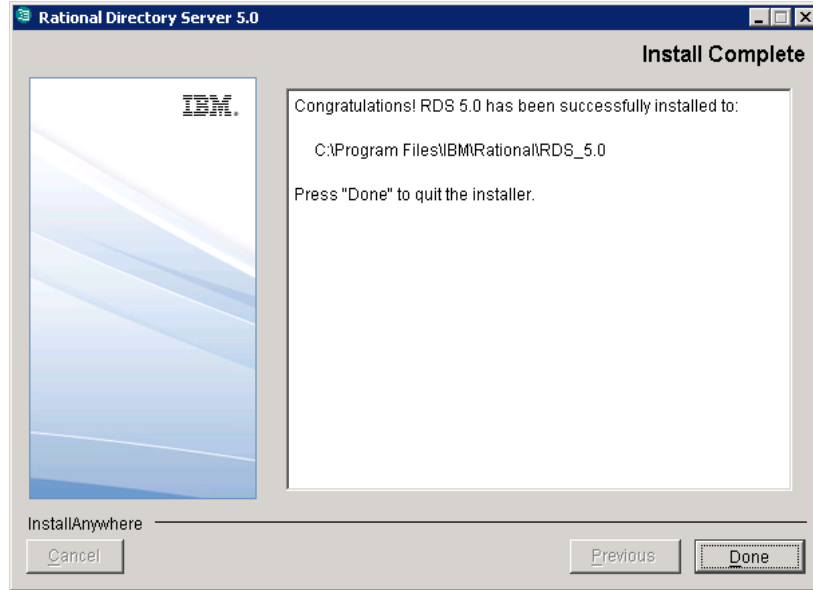
The **Pre-Installation Summary** dialog box is displayed. This dialog box shows the installation summary.

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_5.0\RDSUtility\  
rdctl.bat start
```

For example:

```
C:\Program Files\IBM\Rational\RDS_5.0\RDSUtility\  
rdctl.bat start
```

Starting the Web server

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

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

For example:

```
C:\Program Files\IBM\Rational\RDS_5.0\WebAccessServer\  
Start_RDWebServer.bat
```

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_5.0\RDS_5.0_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 \(page 2\)](#).

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Server Removal

Removing the RDS

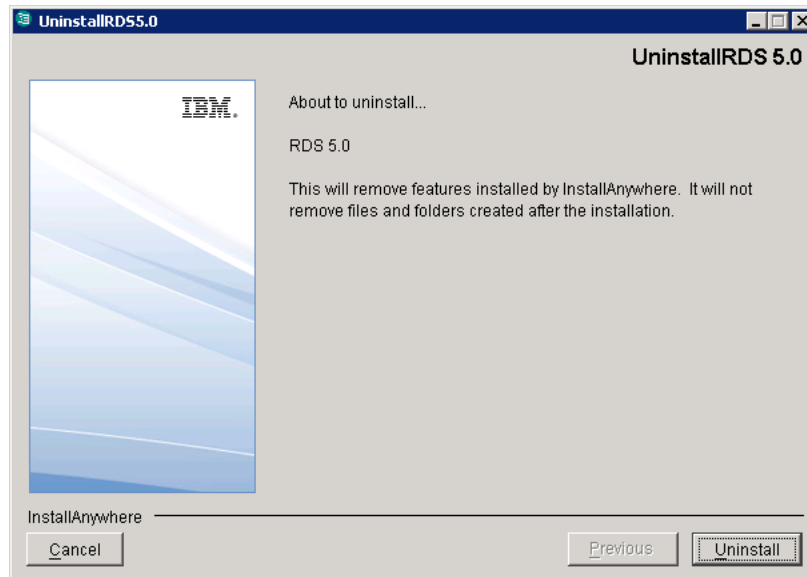
This chapter describes the steps to remove RDS. Remove the server with the same user account that was used for installation.

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 on the options:
 - Choose **Add/Remove Programs** from the Control Panel.
 - Double-click the **UninstallRDS 5.0.exe** from:
`<RDS_Install_Dir>/UninstallRDS5.0`

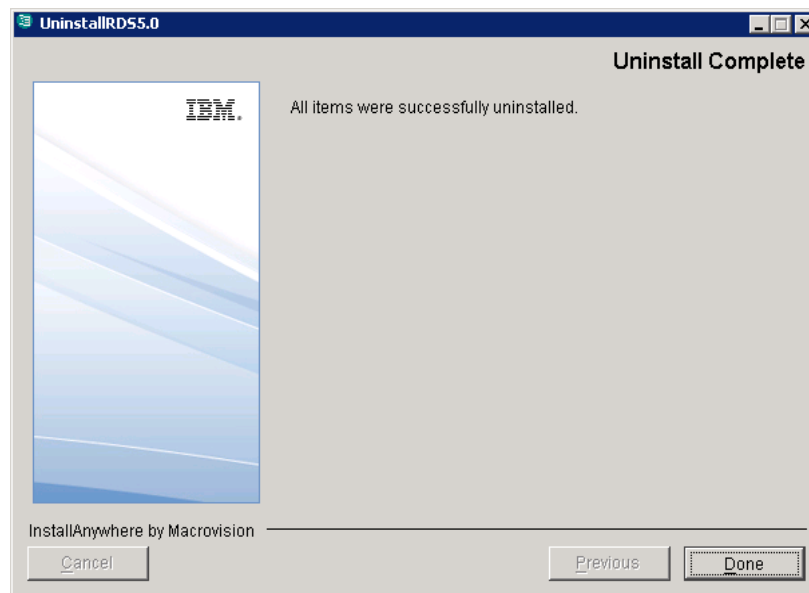
The **Uninstall RDS 5.0** dialog box appears.

4. Click **Uninstall** to remove the RDS.



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.

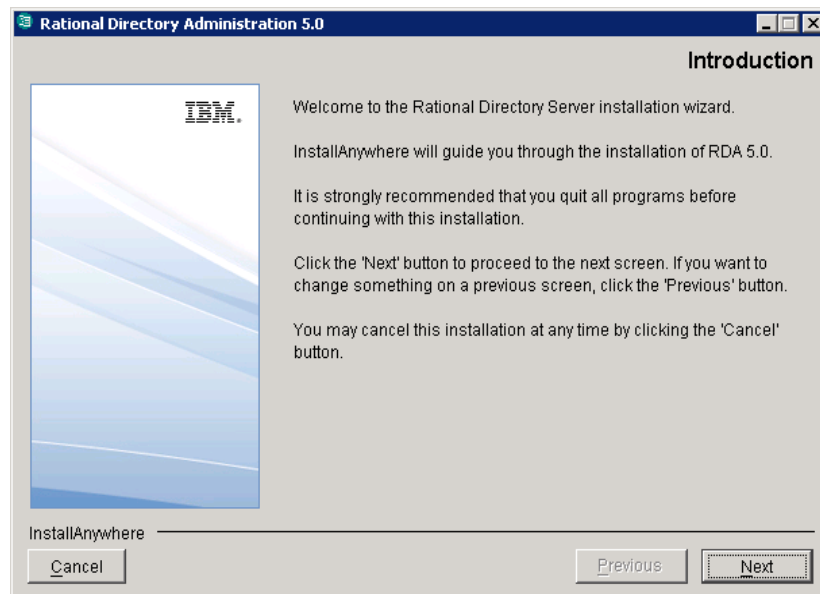
The RDA is available as a web-based tool that you can access using a browser.

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.



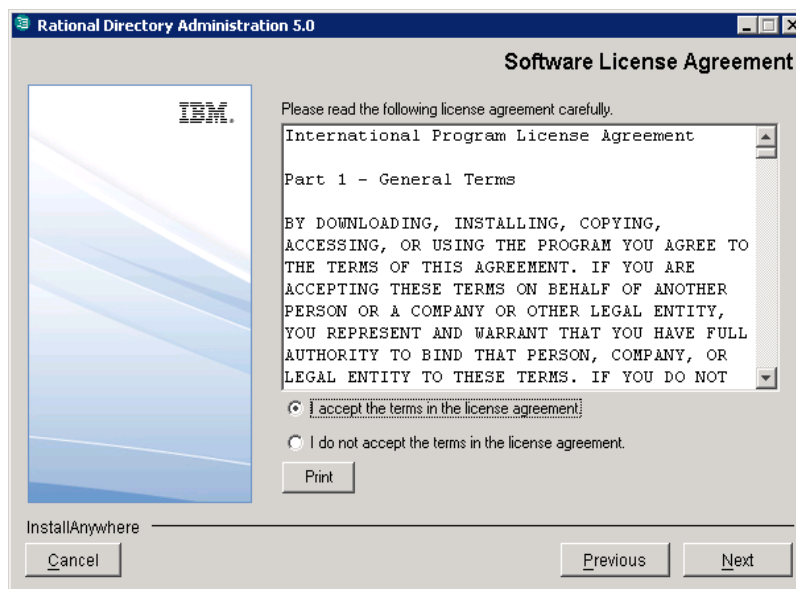
2. Click **Next**. The **License Agreement** dialog box appears.

3. You can also save the license details in a document.

To copy the license information do the following:

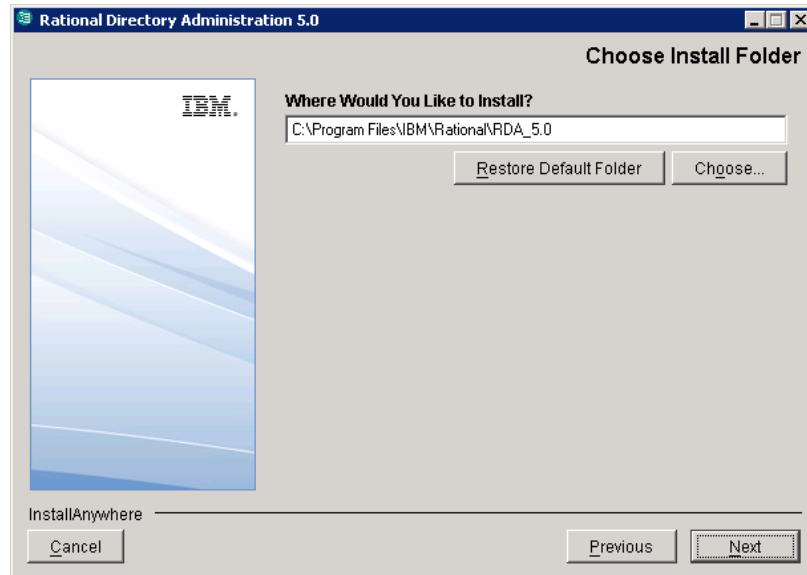
- Right click on the license window and click **Select All**, and then click **Copy**.
- Open any file, paste the license information and save the file.

4. Review and click **I accept the terms of the license agreement**.

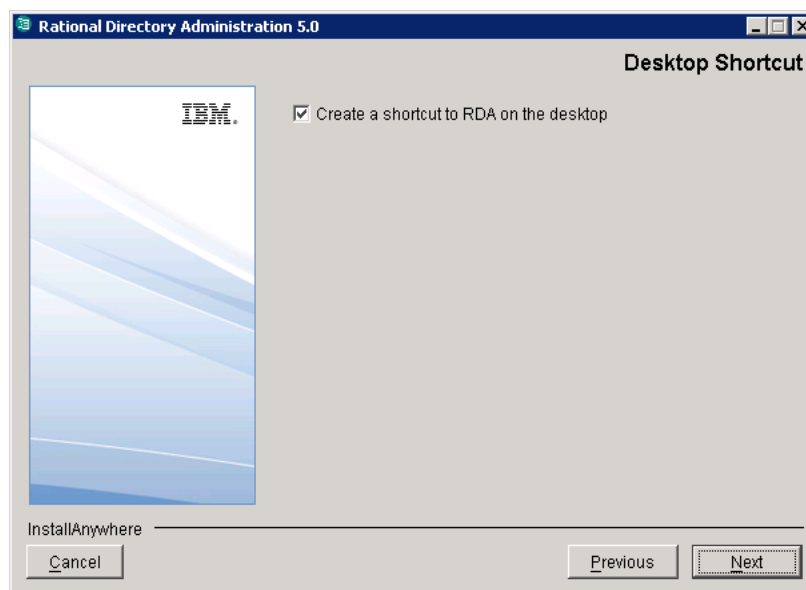


-
5. Click **Next**. The **Choose Install Folder** dialog box appears.

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.

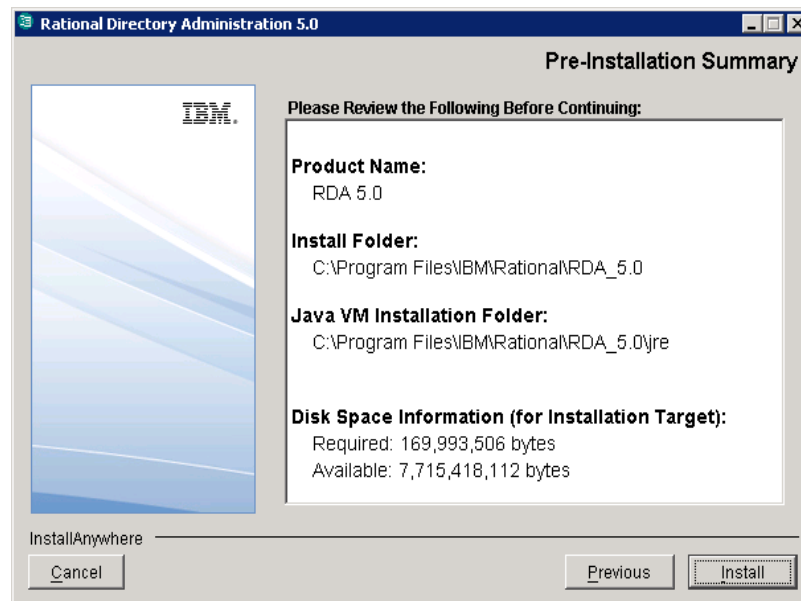


6. Click **Next**. The **Desktop Shortcut** dialog box appears. By default, the **Create a shortcut to RDA on the desktop** option is checked. Click to clear the check box if you do not want the shortcut to be created.

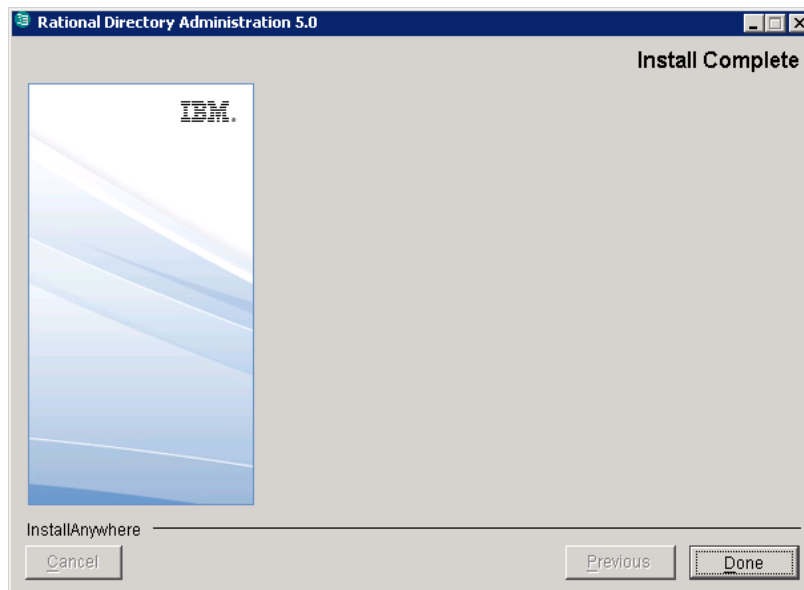


-
7. Click **Next**. The **Pre-Installation Summary** dialog box appears. This dialog box displays the installation summary.
 8. Review the information and click **Install**.

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:
`<RDS_Install_Dir\WebAccessServer\Start_RDAServer.bat>`

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Client Removal

Removing the RDA

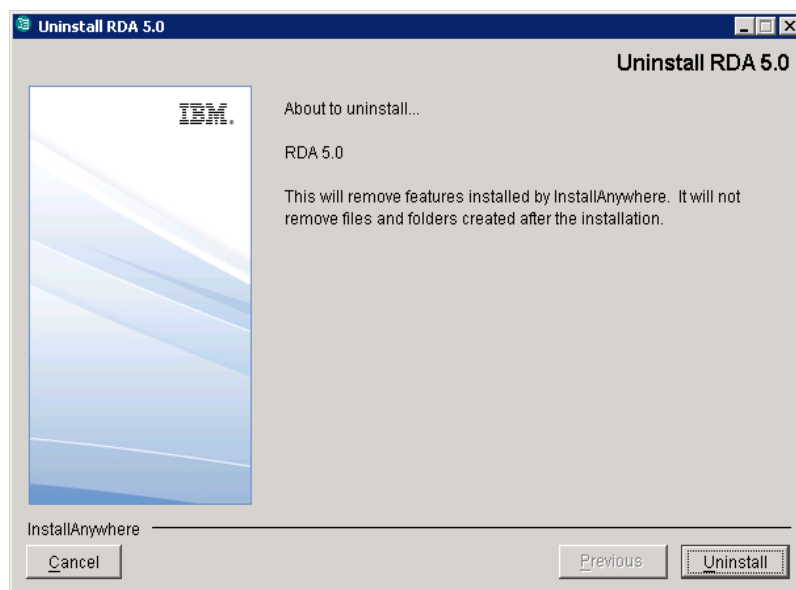
This chapter describes the steps required to remove RDA.

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 5.0.exe** from the path:
<RDA_Install_Dir>/UninstallRDA5.0.

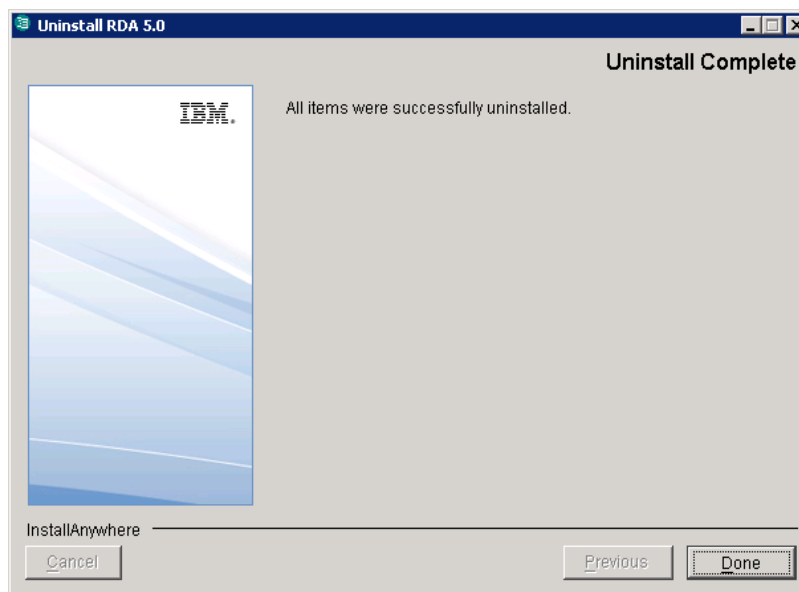
The **Uninstall RDA 5.0** dialog box appears.

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



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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.

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

For example:

```
C:\Program Files\IBM\Rational\RDS_5.0\WebAccessServer\  
Start_RDAWebServer.bat
```

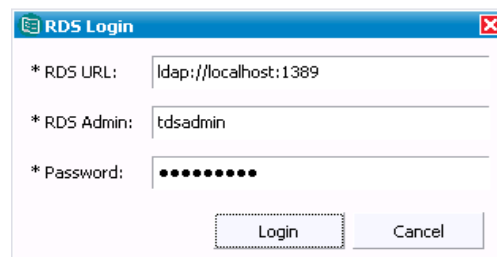
2. Open the browser and type the following URL
`http://<hostname>:8080/webrda/rda.`

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:

Field Name	Description
RDS URL	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 "s" to the <code>ldap</code> URL (where the "s" refers to the secure port), followed by a valid server name and a port number. For example: <code>ldaps://dirserv:1636</code> .
RDS Admin	The admin user name for RDS. The admin user <i>tdsadmin</i> is set by the RDS installer.
Password	The admin password set at the time of RDS installation.

5. Click **Login**.

8

Troubleshooting RDS

This chapter describes the possible problem and solutions for RDS users.

Problem	Solution
Client cannot locate the server.	Use the host name, such as <i>rdserver</i> . 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, <i>rdserver.example.com</i>). Use the IP address for the host (for example, <i>192.168.2.60</i>).
Reason for the server installation failure is not known. Cannot find the error log.	The RDS log file <i>RDS_5.0_InstallLog.log</i> can be found at the root level of the installation folder: <i>C:\Program Files\IBM\Rational\RDS_5.0\RDS_5.0_InstallLog.log</i> Refer to additional log files under the installation folder: <ul style="list-style-type: none">• <i><RDSInstall_home>\apacheds_1.5.4\var\log</i>• <i><RDS_InstallHome>\logs</i> E.g <i>C:\Program Files\IBM\Rational\RDS_5.0\logs</i>
When the server is started, the following error message appears in the command prompt: Error [org.apache.directory.server.core.entry.DefaultServerAttribute] -The value 'inetOrgPerson' is incorrect, it hasn't been added.	Ignore this message.

Terms and Concepts

Term	Definition
LDAP	Lightweight Directory Access Protocol. Directory service protocol designed to run over TCP/IP and across multiple platforms.
OS authentication	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.
SSL	Secure Sockets Layer. SSL is a software library establishing a secure connection between client and server.
RDS Client	A RDS client is a interface that requests services or information from a server.

Appendix: Notices

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