Before using this information, be sure to read the general information under Appendix, “Notices” on page 57.

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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1 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 Website, [http://www.ibm.com/software/rational/support/](http://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/](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](http://www.ibm.com/software/lotus/passportadvantage/howtoenroll.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 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.
Submitting problems

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 <em>critical</em> 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 <em>significant</em> business impact: The program is usable, but it is severely limited.</td>
</tr>
<tr>
<td>3</td>
<td>The problem has <em>some</em> 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 <em>minimal</em> 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:

• **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

<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><em>Courier</em></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><em>Courier Italic</em></td>
<td>Represents values in a command string that you supply. For example, <em>(drive:\username\commands).</em></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.

RDS 5.1 is designed to support a wide range of platforms. For more information on the platform support see Operating system requirements (page 13).

Obtaining the RDS software

You can download the RDS from the support site or from the zip distribution. After downloading the RDS, make sure you verify the MD5 checksum available under the support site, http://www.ibm.com/support/fixcentral/ matches the downloaded installer. This will ensure that the downloaded installer is not corrupted.

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. The 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>tdsadmin user password set at the time of Tivoli Directory Server installation.</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. I cannot use RDA on Solaris to create a partition with SSL enabled?

This is a known limitation. You need to install RDA on Windows as a workaround.

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. Will error opening *.cat files messages affect functionality of RDS 5.1 for Tivoli in any way?

No. You can ignore such error messages, they keep coming because of a minor localization issue with Tivoli which will no way affect RDS and its functionalities.

7. Is RDS supported on VMWare?

Currently, the RDS is not supported on a virtual environment.
8. 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.
3 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
- More information on RDS installation
- 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 the RDS, ensure that the system is equipped with the set of configurations recommended in this manual to avoid any installation errors.

You must have at least 2 GB of free disk space and at least 1 GB free space in %TEMP% folder.

This section describes the following settings that must be in place.

- Installation user
- What is not supported
Before installing RDS

**Installation user**

The RDS installation should be done by the local administrator i.e the *Administrator* account of Windows operating system.

**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.

This section contains the following components:

- 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.
More information on RDS installation

This section describes certain in-built settings and behavior post RDS installations.

This section contains the following components:

- Installation path
- Local user/group creation
- Folders created by the installer

Installation path

The IBM® Tivoli Directory Server® is installed under the path given by the user at the time of the installation. By default, the installer uses the path `C:\Program Files\IBM\LDAP\V6.2` for installation.

Local user/group creation

The Tivoli Directory Server installer, by default creates the local user `tdsadmin` and group `DB2USERS` and `DB2ADMNS` on the Operating System (OS).

Folders created by the installer

The installer creates the following set of folders outside the root installation drive.

- `ibm` (gskit installation)
- `idsslapd-tdsadmin`
- `TDSADMIN`
- `idsinstinfo`
Tivoli Directory Server Installation

Before installing RDS, you need to install IBM Tivoli Directory Server 6.2 and IBM DB2 9.5. This section provides instructions on how to install Tivoli and DB2.

Note For detailed information on Tivoli installation, refer to IBM Tivoli Directory Server Installation and Configuration Guide.

To install Tivoli, do the following:

1. Download C1N9VML.zip, and C1N9XML.zip and uncompress them to your machine.
   Be sure to uncompress the files into a path that has no spaces in the name. Uncompress the .zip files in the same directory.
2. Go to tdsV6.2\tds folder.
3. Double-click the install_tds.exe file.
   The language dialog box appears. By default, English is selected by the installer.
4. Click OK.
5. On the Welcome dialog box, click Next.
6. Read the Software license agreement and select **I accept both the IBM and the non-IBM terms.**

![Image of license agreement screen]

7. Click **Next.**
8. Choose the installation folder.

You can use the default location provided by the installer or click Browse to select a different location. You can also edit the directory path manually by clicking anywhere in the text box.

9. Click Next.
10. Click **Custom** as installation type.

11. Click **Next**.
12. Select only the following feature:
   • DB2
   • C Client 6.2
   • Java Client 6.2
   • Server 6.2
   By default, all feature are selected by the installer. However, you need to select only the features that are listed above. To deselect rest of the features, click the check box against the option.

13. Click Next.
A dialog box is displayed prompting you to enter a user ID and password for the DB2 system ID.

14. Type the user ID as *tdsadmin*.

15. Type the password and then type the password again for verification. Make sure that the password you supply meets the complexity requirements enabled in your system.

Note  Remember the password you have entered for *tdsadmin* user. The same password needs to be given at the time of RDS installation.

16. Click *Next*.

A summary window displays the components that will be installed, the installation locations, and the amount of disk space required.

17. Click *Install* to begin the installation.

Once the installation is successful, the **IBM Tivoli Directory Server Instance Administration Tool** dialog box is displayed.
18. Click **Close** and then click **Yes** on the message box.

19. Click **Finish** on the IBM Tivoli Directory Server 6.2 dialog box.
Installing RDS

This section provides you the installation steps for RDS. Follow these steps after completing the Tivoli installation detailed in the previous section.

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. Open the `<RDS Image>\Install` folder and double-click the `RDS.exe`. The **Introduction** dialog box appears.

2. Click **Next**. The **License Agreement** dialog box is displayed.

3. You can save the licence details in a document.

   To copy the license information:
   - Right click on the licence 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 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.
6. Click **Next**. The **Installation Mode** dialog box is displayed.

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

   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.

8. 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)**.
9. Click **Next**.
   The **Tivoli Home Folder** dialog box is displayed.

10. Click **Choose** to specify the directory path where you have installed Tivoli. You can also type the path manually by clicking anywhere in the text box.
11. Click **Next**. The **Desktop Shortcut** dialog box is displayed.

This creates a 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 RDS.

13. Type the directory server configuration properties.

![Rational Directory Server Configuration dialog box]

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**.

15. Type the **Directory Administrator User** password.

   This should be the same password set at the time of Tivoli Directory Server installation.

   ![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>
</tbody>
</table>

The field description and the value to be entered in each field is explained in the following table:
### Chapter 3: Server Installation

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<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>
<tr>
<td>Administrator Password</td>
<td>The password for RDS admin user.</td>
<td>Type the <em>tdsadmin</em> user password given at the time of Tivoli installation.</td>
</tr>
<tr>
<td>Confirm Password</td>
<td>This describes the password authentication for the RDS admin user.</td>
<td>Re-enter the password in this field. Both passwords should match for the installation to continue.</td>
</tr>
</tbody>
</table>
16. Click Next.

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

17. Review the information, and then click **Install**.

The **Install Complete** dialog box is displayed if the installation is successful.
18. 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\Start_RDS_server.bat
```

For example:

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

You can also double-click the `Start_RDS_server.bat` located under the same path to start the server.

**Note** The RDS is configured as a Windows service. However, this should be changed to an automatic service if it is set to manual. This will ensure that the server starts up automatically after a machine reboot.

Starting the Web server

After installing RDS, start the Web server using the following command:

```
<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 files carefully for any errors.
   - `<RDS_InstallHome>\logs`
   - `<RDS_InstallHome>\RDS_5.1_InstallLog.log`
   - `<TivoliInstallHome>\LDAP\V6.2\var`
   - `<InstallRootDrive>\idsslapd-tdsadmin\logs`
   - `<InstallRootDrive>\TDSADMIN\db2diag.log`
   - `<InstallRootDrive>\TDSADMIN\stmmlog`

2. If the log files specify the installation has failed with Tivoli or DB2 errors, look for the server startup errors in `ibmslapd.log`.

**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 24)](#).

After installing the RDS, perform an online data migration between the Tivoli 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 cannot co-exist in the same machine.
Removing the RDS

This chapter describes the steps to remove RDS and Tivoli servers. Remove the server with the same user account that was used for installation. You must remove RDS first and then the Tivoli Directory Server.

**Note** Removing the IBM Tivoli Directory Server also removes the IBM DB2.

To remove RDS, 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 RDS using one of the options:
   - Use **Add/Remove Programs** in the Windows Control Panel to remove RDS.
   - Double-clicking the **UninstallRDS 5.1.exe** from the path `<RDS_Install_Dir>/UninstallRDS5.1`. The **Uninstall RDS 5.1** dialog box appears.

3. Click **Uninstall** to remove the RDS.
Chapter 4: Server Removal

4. The Uninstaller removes the components one by one.

5. After removing all the components successfully, the Uninstall Complete dialog box is displayed.

6. Click Done to exit the installer.

7. Click Yes on the message box to restart the system.

To remove Tivoli, do the following:

1. Stop the IBM Tivoli server by pressing the CTRL+C key on the startup console if the server is manually started.

2. Use the Add/Remove Programs from the Control Panel to remove Tivoli server 6.2.

   The IBM Tivoli Directory Server 6.2 is displayed.
3. On the Wizard, click **Next** to continue uninstallation. 
   By default, all the components are selected.

4. Click **Next**.
   The selected components for uninstallation is listed.

5. Click **Next**.
   The uninstallation is started.

6. The **Uninstaller** removes the components one by one.
Chapter 4: Server Removal

7. Click **Finish** to exit the installer after successful uninstallation.
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.

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 is displayed.

![Introduction dialog box](image.png)
2. Click **Next**. The **License Agreement** dialog box is displayed.

3. You can also save the licence 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 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.
6. Click Next. The Desktop Shortcut dialog box is displayed. 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 is displayed. This dialog box displays the installation summary.

8. Review the information and click Install.

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

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

```
<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:
   - Use the **Add/Remove Programs** from the Control Panel to remove the RDA.
   - 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.
7

Launching RDA

This chapter describes how to launch the RDA application.
You can launch RDA from any machine by providing the appropriate URL. The Web 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 is displayed.
4. On the **Login** dialog box, type the details as:

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

5. Click **Login**.
# Troubleshooting RDS

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

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation fails with the message &quot;Not enough room for a complete install.&quot;</td>
<td>Change the environment variable <code>%TEMP%</code> to point to the path where you have minimum of 1 GB space.</td>
</tr>
<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, <code>rdsserver.example.com</code>). Use the IP address for the host (for example, <code>192.168.2.60</code>).</td>
</tr>
<tr>
<td>Installation fails with the message &quot;server startup fails.&quot;</td>
<td>Check the following log files:</td>
</tr>
<tr>
<td></td>
<td>- <code>&lt;RDS_Installhome&gt;\logs\createinstance.log</code></td>
</tr>
<tr>
<td></td>
<td>- <code>&lt;RDS_Installhome&gt;\logs\createdb.log</code></td>
</tr>
<tr>
<td></td>
<td>If there are no errors in these logs, look at the following log file:</td>
</tr>
<tr>
<td></td>
<td>- <code>&lt;InstallRoot&gt;\idsslapd-tdsadmin\logs\ibmslapd.log</code></td>
</tr>
<tr>
<td>Reason for the server installation failure is not known. Cannot find the error log.</td>
<td>The IBM Tivoli Directory Server and RDS log files can be found in the following location:</td>
</tr>
<tr>
<td></td>
<td>- <code>&lt;RDS_InstallHome&gt;\logs</code></td>
</tr>
<tr>
<td></td>
<td>- <code>&lt;RDS_InstallHome&gt;\RDS_5.1_InstallLog.log</code></td>
</tr>
<tr>
<td></td>
<td>- <code>&lt;TivoliInstallHome&gt;\LDAP\V6.2\var</code></td>
</tr>
<tr>
<td></td>
<td>- <code>&lt;InstallRootDrive&gt;\idsslapd-tdsadmin\logs</code></td>
</tr>
<tr>
<td></td>
<td>- <code>&lt;InstallRootDrive&gt;\TDSADMIN\db2diag.log</code></td>
</tr>
<tr>
<td></td>
<td>- <code>&lt;InstallRootDrive&gt;\TDSADMIN\stmmlog</code></td>
</tr>
</tbody>
</table>
## 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>
Appendix: Notices

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