

Rational. Directory Server



Installation Guide

IBM Rational Directory Server
Installation Guide
Release 5.1.0.2

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

This edition applies to **VERSION 5.1.0.2, 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](#)
- [Types of RDS installations](#)
- [Preparing installation information](#)
- [Server Installation](#)
- [Server Removal](#)
- [Client Installation](#)
- [Client Removal](#)
- [Troubleshooting RDS](#)

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, <http://www.ibm.com/software/rational/support/>

Document name	Description
IBM Rational Directory Server Installation Guide	Provides information about how installing RDS.
IBM Rational Server Product Manual	Provides detailed information about RDS features supported in this release.
IBM Rational Server Administration Manual	Provides information about 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 log on using the same credentials across Enterprise Lifecycle Management tools for which they have authorized access.

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

The RDS comes with the Graphical User Interface (GUI) based client application IBM® Rational® Directory Administration (RDA), that can be installed separately. For information on installation instruction and procedure, refer to [Installing the RDA \(page 31\)](#).

Note The RDS 5.1.0.2 should be installed on an existing RDS 5.1 server. The RDS 5.1.0.2 automatically updates both server and client. You can also install the client separately by installing the RDA.

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.

Remote installation of RDS

RDS requires graphical X environment for installation. In case of remote installation by X environment, ensure that DISPLAY environment variable should be set appropriately as, `$ export DISPLAY=localhost:0`. For more information, see the platform specific manual for details.

Types of RDS installations

There are two types of RDS installations:

Installation type	Description
Server Installation	Installs RDS 5.1.0.2 fix pack on an existing RDS 5.1 server. The RDS provides user authentication and administration across Enterprise Lifecycle Management tools using the same credentials. The server installation also provides the option to install Web RDA client. However, you can choose to install that separately.
Client Installation	Installs the client (RDA) on a local machine. The client can access the server on the local machine or on a network.

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 record the basic installation information, as described for a typical installation in the following table..

Description	Example
Host name	Same as your existing RDS 5.1 server.
Directory server port number	Default LDAP port. Use the same port number given at the time of RDS 5.1 installation.
Secure port number	(Default LDAP SSL port. Use the same secure port number given at the time of RDS 5.1 installation.
Directory administrator password	This must be the <i>tdsadmin</i> password given at the time of <i>tdsadmin</i> user creation.

Description	Example
Directory administrator ID	tdsadmin (set by default)
Installation directory	<p>Same as your existing RDS 5.1 server. For example:</p> <ul style="list-style-type: none"> • /var/IBM/Rational/RDS_5.1 or any other specified path. • Tivoli directory server binary is always installed under /opt/IBM/ ldap/V6.2

Frequently Asked Questions

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

Sun Java^(tm) System Directory Server and Microsoft^(r) Active Directory Server.

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 anyway?*

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 Solaris, and Linux platforms.

This chapter contains the following sections:

- [System requirements](#)
- [Before installing RDS](#)
- [Installing the RDS](#)
- [Post installation instructions](#)

### System requirements

The following section describes 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***

RDS and RDA are supported on the following platforms:

- Sun Solaris 10 operating system 64 bit ( / SPARC Platform)
- Red Hat Enterprise Linux Server 5 operating system 32 and 64 bit

The following table details the list of additional software that must be available in the system.

| Operating system         | Supported OS versions                                  | Additional required software                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Solaris operating system | Solaris 10 operating system for SPARC®                 | <ul style="list-style-type: none"> <li>• The Korn shell is required.</li> <li>• pkgadd system utility should exist.</li> <li>• 64-bit kernel.</li> <li>• If raw devices are used, patch 125100-07.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Red Hat Linux            | Red Hat Enterprise Server 5 for x86 (32 and 64 bit OS) | <p>The following packages need to be installed before installing the Rational Directory Server:</p> <ol style="list-style-type: none"> <li>1. glibc-devel</li> <li>2. glibc-headers</li> <li>3. libaio</li> <li>4. compat-libstdc++</li> </ol> <p>some of the rpm names of these packages are:</p> <ul style="list-style-type: none"> <li>• glibc-2.5-18.i686.rpm</li> <li>• glibc-common-2.5-18.i686.rpm</li> <li>• glibc-common-devel-2.5-18.i686.rpm</li> <li>• glibc-headers-2.5-18.i686.rpm</li> <li>• nscd-2.5-18.i686.rpm</li> </ul> <p>The rpm name could end with "i386" based on the hardware details (/ confirm with command "uname -m").</p> <p>Libraries libstdc++so.5 and libaio.so.1 should exist.</p> <p>You might need to upgrade to the latest patch level of these packages. For more information on the patches, see the Red Hat support site at <a href="http://rhn.redhat.com">http://rhn.redhat.com</a>.</p> |

**Note** For more information on operating system requirements see, <http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/topic/com.ibm.IBMDS.doc/sysreq10.htm#sysreq>

## Disk space and memory requirements

### Requirement for RDA

Make sure that sufficient disk space is available before installing the RDA. The following table shows the minimum disk space and memory requirements for RDA.

| Minimum disk space required | Minimum memory required |
|-----------------------------|-------------------------|
| 300 MB                      | 512 MB                  |

## 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 need atleast **5 GB** of free disk space and at least **1.5 GB** free space in /tmp folder.

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

- [RDS 5.1 server](#)
- [Shell requirements](#)
- [Root settings](#)
- [Libraries and utilities](#)
- [What is not supported](#)

### RDS 5.1 server

Make sure that RDS 5.1 is present and running in your system before installing the RDS 5.1.0.2. However, it is recommended to stop the RDA web server during the installation.

### Shell requirements

The following settings are recommended for Solaris and Linux installation.

- On Solaris 10 - Korn shell (KSH) must be installed on the OS.
- Red Hat 5 - Korn shell is not available by default. Install the ksh on the OS or create a soft link from the zsh to ksh.

### **Root settings**

Both Linux, and Solaris requires *root* user login to perform the installation and instance creation. You must have *root* access to start the RDS.

### **Libraries and utilities**

You must install the recommended libraries and utilities. For more information on the required libraries and utilities see, [Operating system requirements \(page 13\)](#).

### **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](#)
- [NFS mounted system](#)

#### **Console mode installation**

The RDS does not support non-graphical or console mode installation. Hence, the options such as `-console` is not supported by the RDS installer.

#### **NFS mounted system**

The RDS installation is not supported on NFS mounted systems. The `/usr/local/bin`, `/opt` and the installation location should not be NFS mounted.

## Installing the RDS

Install the server as a *root* user.

To Install RDS, do the following:

1. Unzip the RDS installer in a folder (use unzip or gunzip utilities).
2. Go to the **install** directory and set the execute permission to **RDS.bin**

```
chmod +x RDS.bin
```

Skip this step for CD and DVD installation.

3. The *root* user should have write permission to the below directories:

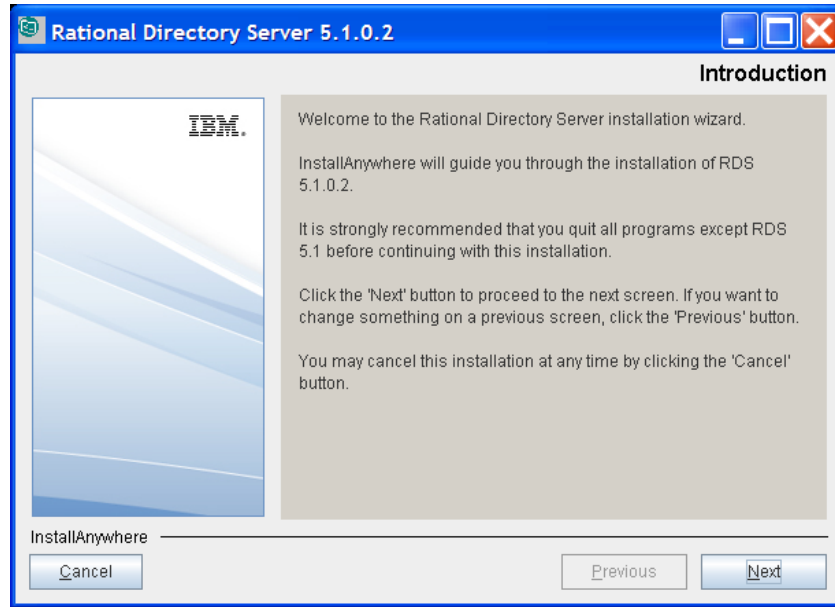
```
$ /usr/local/bin
```

```
$ /opt
```

The directories should not be NFS enabled.

4. Path settings:
  - Ensure that the utilities: `unzip`, `gunzip`, `dos2unix`, `userdel` and `groupdel` are in the system path.
5. The `DISPLAY` environment variable should be appropriately set for the remote installation.

6. In the **install** directory, type `./RDS .bin` and press **Enter**. The **Introduction** dialog box is displayed.



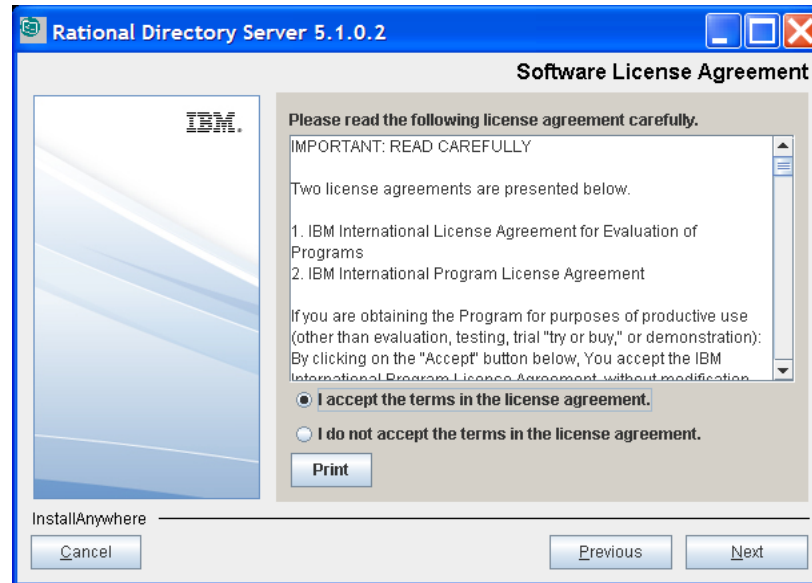
7. Click **Next**. The **License Agreement** dialog box is displayed.
8. You can save the licence details in a document.

To copy the license information:

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

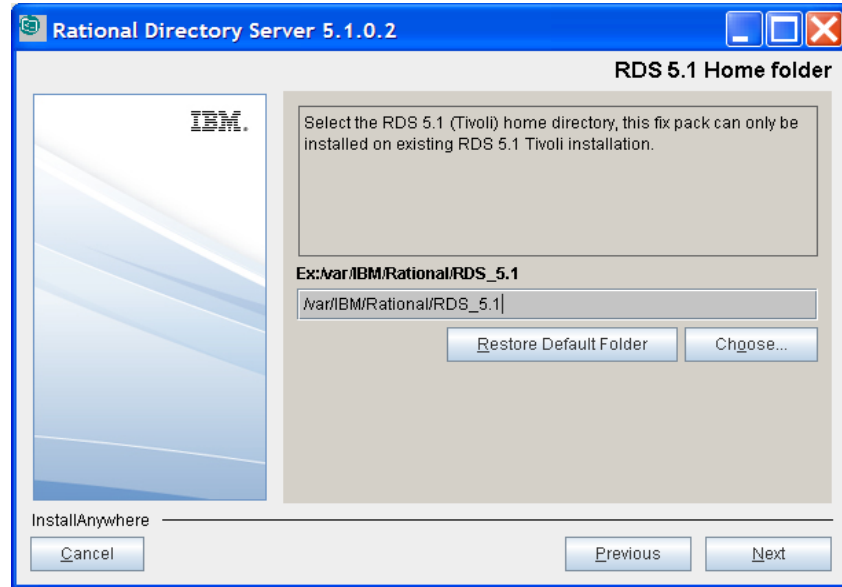


9. Review and click **I accept the terms of the license agreement.**



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

Click **Choose** to select an existing RDS 5.1 installation location. You can also edit the path manually by clicking anywhere in the text box. To use the default location, click the **Restore Default Folder**. This restores the default location provided by the installer.

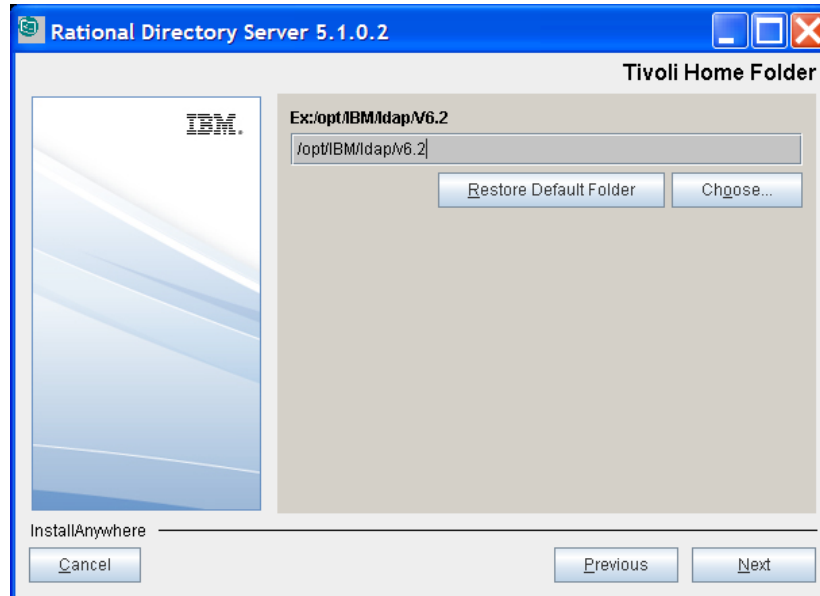


**Note** The IBM Tivoli Directory Server folder like /opt / IBM etc. are created outside the installation path.

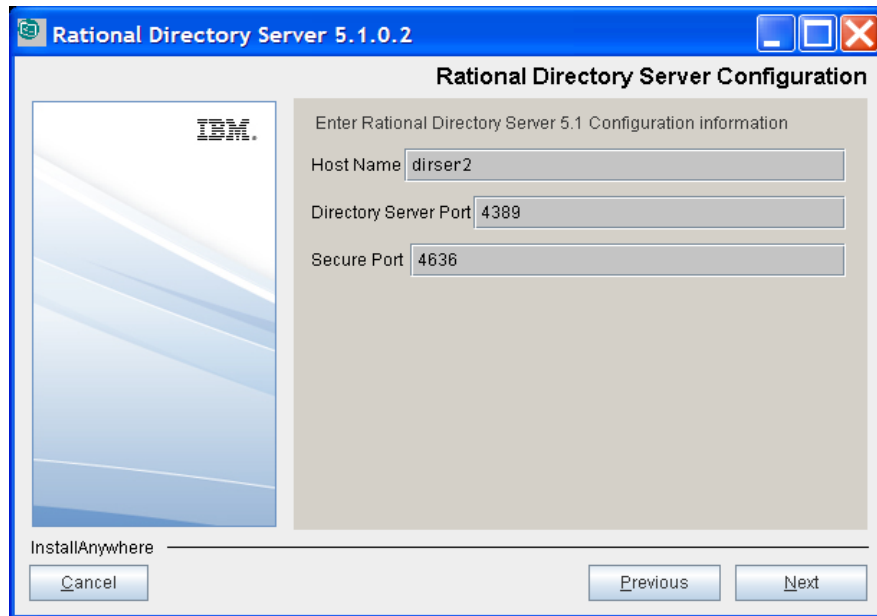
11. Click **Next**.

The **Tivoli Home Folder** dialog box is displayed.

12. 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.



13. Click **Next**. The **Rational Directory Server Configuration** dialog box is displayed. This defines the configuration settings for the RDS.
14. Type the directory server configuration properties.

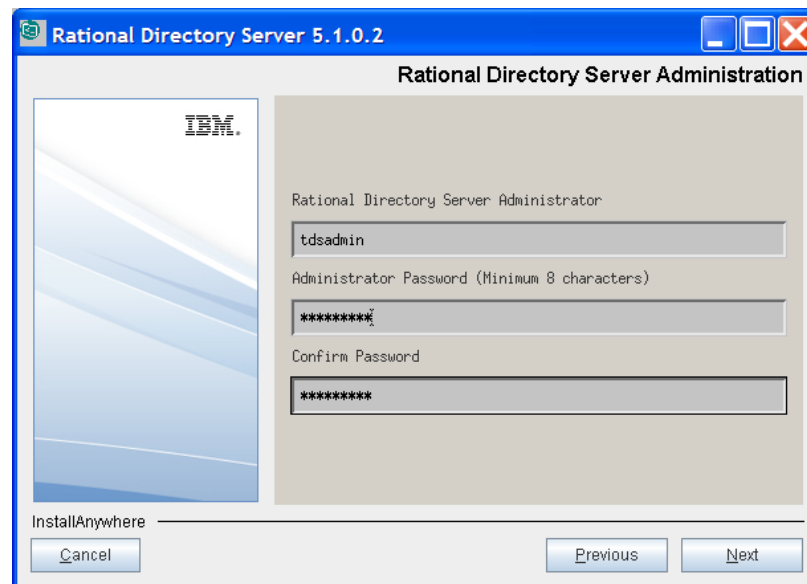


The field descriptions and the values to be entered in each field are explained in the following table.

| Field name            | Description                                                   | Values                                                      |
|-----------------------|---------------------------------------------------------------|-------------------------------------------------------------|
| Host Name             | The host name of the computer where the RDS 5.1 is installed. | Enter a valid computer name where the RDS 5.1 is installed. |
| Directory Server Port | The port number of the RDS 5.1.                               | Enter the RDS 5.1 directory server port number.             |

| Field name  | Description                                                                                                                                                    | Values                                              |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Secure Port | The LDAP Secure Socket Layer (SSL) port number. By default, the SSL is enabled by the installer using the secure port number provided during the installation. | Enter the RDS 5.1 secure port number in this field. |

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

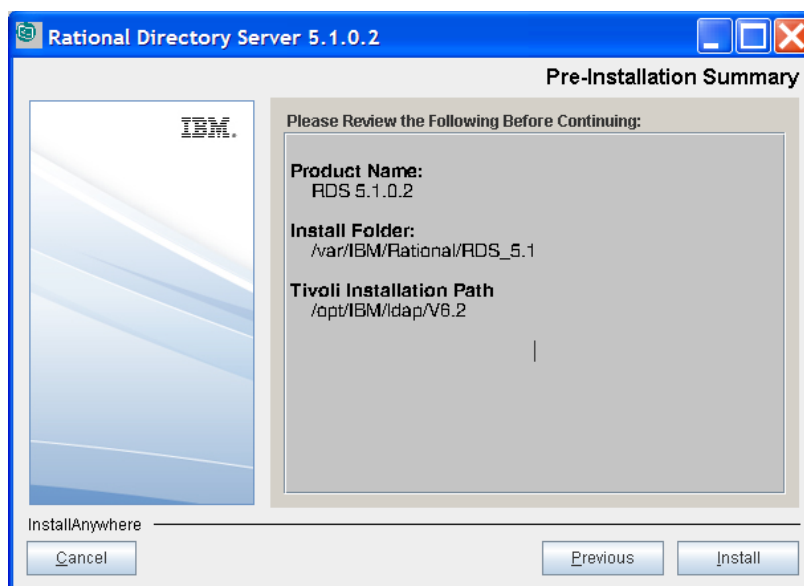


The field description and the value to be entered in each field is explained in the following table.

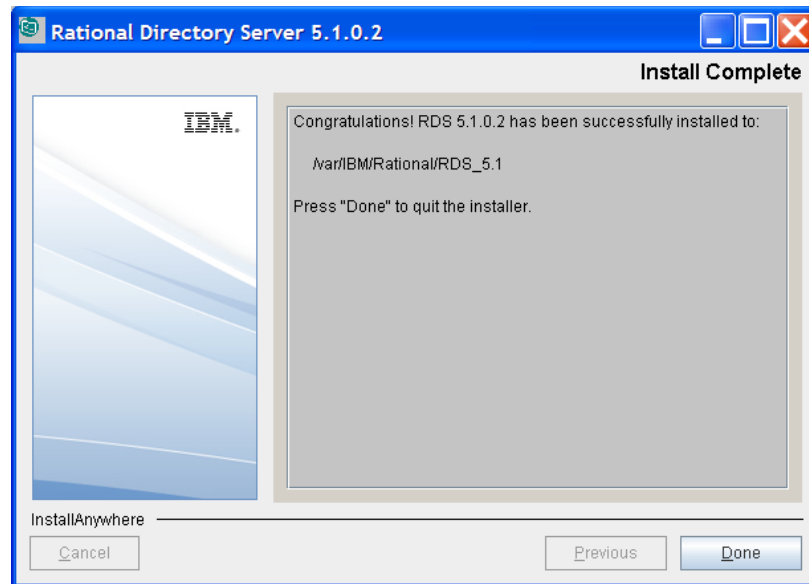
| Field name                | Description                        | Values                                                                               |
|---------------------------|------------------------------------|--------------------------------------------------------------------------------------|
| RDS Administrator User ID | The user id for RDS administrator. | The RDS administrator ID is set by default. The administrator ID cannot be modified. |

| Field name                      | Description                                             | Values                                                                                                             |
|---------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| RDS Administrator User Password | The password for the RDS administrator user.            | Type the <i>tdsadmin</i> user password that was set at the time of Tivoli installation.                            |
| Confirm Password                | The password authentication for RDS administrator user. | Re-enter the password in the Confirm Password field. Both passwords should match for the installation to continue. |

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:

- [Starting the Web Server](#)
- [Review log files](#)

### Starting the Web Server

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

**On Solaris:**

```
$> cd <RDS_Home>/WebAccessServer
$> ./Start_RDWebAccessServer.sh
```

**On Linux:**

```
$> cd <RDS_Home>/WebAccessServer
$> ./Start_RDWebAccessServer.sh
```

After starting the server, login to RDS, click **Help > About** and confirm that the client and server version values have changed to 5.1.0.2.

### 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>/RDS\_5.1.0.2\_InstallLog.log
  - <RDS\_InstallHome>/logs/ modify\_5.1.0.2.log
  - <RDS\_InstallHome>/logs/schema-error\_5.1.0.2.log
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 the other relevant information to the support specialist while reporting the errors. For more information on reporting the errors, see [Contacting IBM Rational Software Support \(page 2\)](#).



### ***Space issues***

In case of space issues, delete the log files that are created under /tmp folder post installation to gain space. However, this is optional.



# 4

## Server Removal

### Removing the RDS

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

There is no separate uninstaller for RDS 5.1.0.2. Use the RDS 5.1 uninstaller to uninstall the RDS.

To remove RDS, do the following:

1. Go to the <RDS\_Install\_Dir>/UninstallRDS5.1 folder.
2. Type ./UninstallRDS5.1 and press **Enter**. The **Uninstall RDS 5.1** dialog box is displayed.
3. Click **Uninstall** to remove the RDS.
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** exit the installer.

**Note** Follow the same procedure for uninstalling the RDS on Linux platform.



# 5

## Client Installation

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

### Installing the RDA

This section describes the RDA installation on Solaris, and Linux platforms. To start the installation, follow the instructions given below.

To install RDA, do the following:

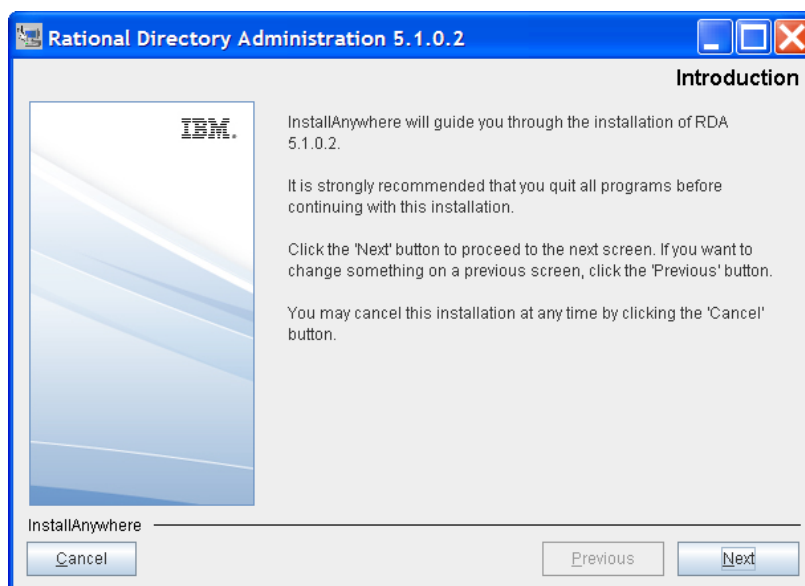
You first need to set the execute permission for **RDA.bin** in order to start the installation.

1. Unzip the RDA installer in a folder (use unzip or gunzip utilities).
1. Go to the **install** directory and set the execute permission to **RDA.bin**.

```
chmod +x RDA.bin
```

Skip this step for CD and DVD installation.

2. In the **install** directory, type `./RDA.bin` and press **Enter** to start the installation. The **Introduction** dialog box is displayed.

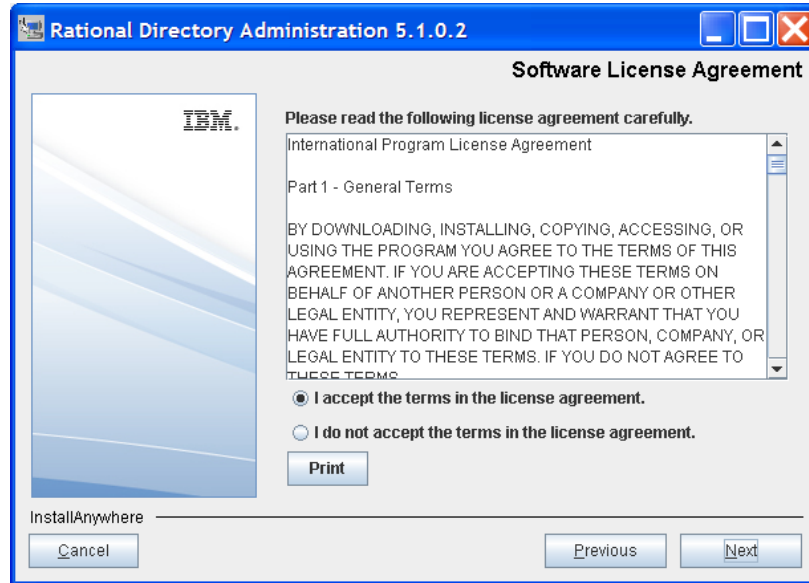


3. Click **Next**. The **License Agreement** dialog box is displayed.
4. You can also save the licence details in a document.

To copy the license information:

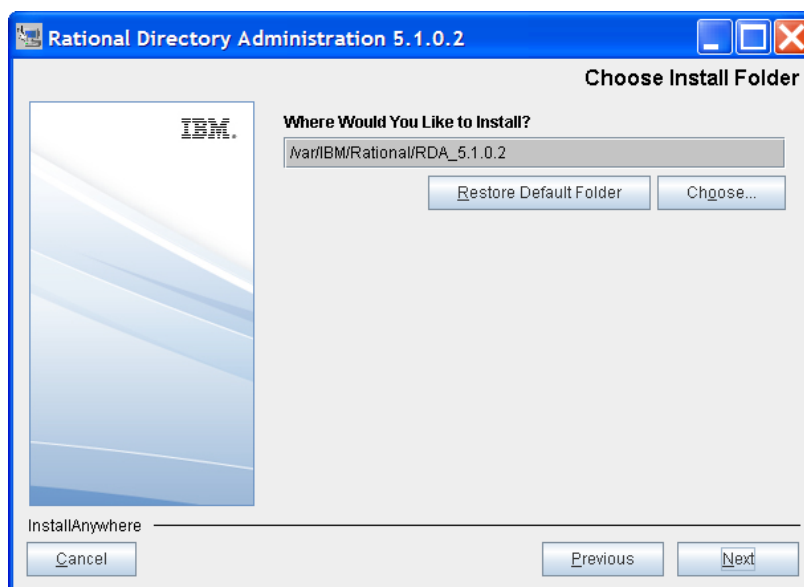
- Right-click the license window and click **Select All**, and then click **Copy**.
- Open any file, paste the license information and save the file.

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



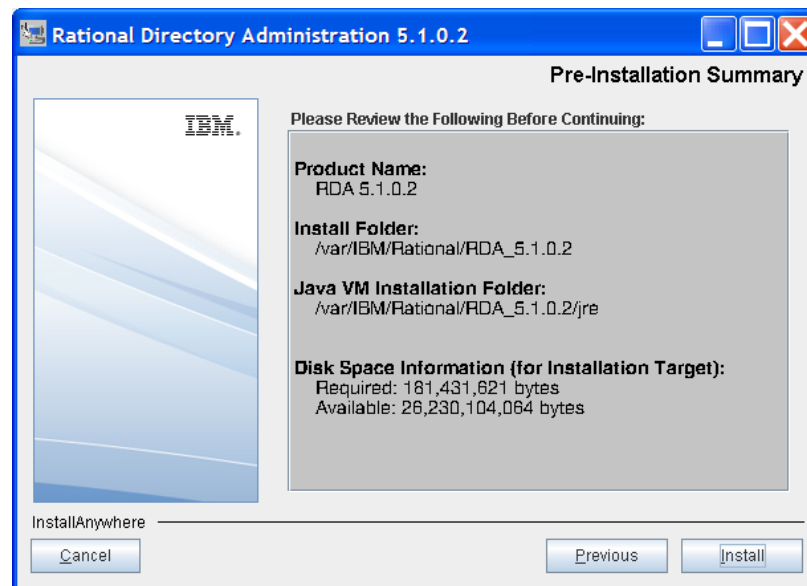
6. Click **Next**. The **Choose Install Folder** dialog box is displayed.

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 the **Restore Default Folder**. This restores the default location provided by the installer.

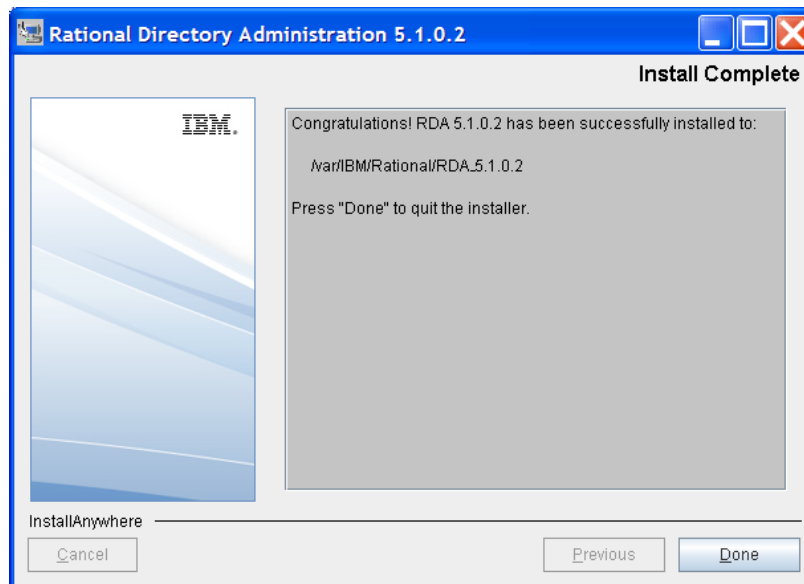




7. Click **Next**. The **Pre-Installation Summary** dialog box is displayed. This dialog box shows the installation summary.
8. Review the information, and then click **Install**. The **Install Complete** dialog box is displayed if the installation is successful.



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



**Note** The Web Access Server is automatically started as a background process when the web access server is installed. After installation, verify the server is running using the following command:

```
ps -ef | grep tomcat
```

If the tomcat process is not running, see the [Troubleshooting RDS \(page 41\)](#) section for details on starting the server.

# 6

## Client Removal

### Removing the RDA

This chapter describes the steps required to remove RDA on all platforms.

To remove RDA, do the following:

1. Go to the <RDA\_Install\_Dir>/UninstallRDA5.1 folder.
2. Type ./Uninstall\_RDA\_5.1.0.2 and press **Enter**. The **Uninstall RDA 5.1.0.2** dialog box is displayed.
3. Click **Uninstall**. The **Uninstaller** removes the components one by one. The **Uninstall Complete** dialog box is displayed if the uninstallation is successful.
4. Click **Done** to exit the installer.



# 7

## Launching RDA

This chapter describes how to launch the RDA application.

You can launch the desktop RDA that is installed on a client machine or the Web RDA from any machine by providing the appropriate URL. The Web RDA is supported on Mozilla browser.

**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, run the following command to **start** the web server.

```
<RDA_Home>/WebAccessServer/Start_RDAServer.sh
```

For example:

```
$> /var/IBM/Rational/RDA_5.1.0.2/WebAccessServer/
Start_RDAServer.sh
```

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

For example:

```
http://rdserver: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:

| Field name | Description                                                                                                                                                                                                                                                                                                                                    |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| URL        | The LDAP URL should include a valid server name and a port number that was given at the time of RDS installation.<br><br>For example: ldap://dirserv:1636.<br><br>To open the RDS in secure mode, you can include the letter "s" in the ldap URL (where the "s" refers to the secure port), followed by a valid server name and a port number. |
| 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**.

**Note** To stop the server, use the following command:

```
$> <RDS_Install_Dir>\WebAccessServer\apache-tomcat-6.0.16\bin\catalina.sh shutdown
```

# 8

## Troubleshooting RDS

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

| Problem                                                         | Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Installation was successful but server version is shown as 5.1. | <p>Check the following logs:</p> <p>&lt;RDS_InstallHome&gt;\logs\modify_5.1.0.2.log<br/>&lt;RDS_InstallHome&gt;\logs\schema-error_5.1.0.2.log</p> <p>and make sure that all schema updates were successful. If there are any errors, it is possible that either the RDS 5.1 server was not running at the time of installation or an invalid tdsadmin credentials were given at the time installation.</p> <p>Re-install the RDS 5.1.0.2 after starting the RDS 5.1 server and provide valid password for the tdsadmin user.</p> |





## Terms and Concepts

| <b>Term</b>       | <b>Definition</b>                                                                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 log on name. |
| PAM               | A pluggable authentication modules (PAM) is set of libraries and services used for authentication.                                                           |
| SSL               | A Secure Sockets Layer. (SSL) is a software library that establishes a secure connection between a 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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