

Identity Manager Resource Kit 1.2 Exercises for the Metadirectory

August 17, 2009

Novell®

Exercises for the Metadirectory

These exercises are designed to increase your knowledge and skill with Identity Manager. The exercises use the Resource Kit solutions that are specific to the Metadirectory engine and drivers. They help you gain an understanding of the solutions so it is easier to adapt the solutions for each customer deployment.

Exercises

Use the Identity Manager Resource Kit documentation to help complete the exercises. The “Resource Kit Configuration Values” section in the *Resource Kit 1.2 Overview Guide* (<http://www.novell.com/documentation/ncmp10>) lists the values you need. For current versions of all Resource Kit documentation, see the *Novell Compliance Management Platform Documentation Web site* (<http://www.novell.com/documentation/ncmp10>).

Answers for the exercises are found in “Answers” on page 2.

- ♦ “Exercise 1” on page 1
- ♦ “Exercise 2” on page 1
- ♦ “Exercise 3” on page 1
- ♦ “Exercise 4” on page 1
- ♦ “Exercise 5” on page 1
- ♦ “Exercise 6” on page 1
- ♦ “Exercise 7” on page 1
- ♦ “Exercise 8” on page 1

EXERCISE 1

Install and configure VMware* Workstation or VMware Player. Download the Identity Manager Resource Kit, then get it working on VMware Workstation or the VMware Player. (“Using the Virtual Machine to Implement the Resource Kit” in the *Resource Kit Overview Guide* (<http://www.novell.com/documentation/ncmp10/>)).

EXERCISE 2

Log in to the Web interfaces used with the Resource Kit and explain what each interface is used for. Log in with the appropriate user for each interface.

- iManager

- iMonitor
- User Application Administration Portal
- User Application User Portal

EXERCISE 3

Enable the Password Expiration Notification feature for the user accounts in the Resource Kit. Explain the benefits this feature provides.

EXERCISE 4

Is Universal Password enabled for Ned North (nnorth)?

EXERCISE 5

Enable tracing for the Identity Manager events and explain why this is important. List the two methods to capture or view the trace.

EXERCISE 6

Add the Active Directory* driver to the project and change the Global Configuration Values (GCVs) for your environment. Deploy the modified project. View the results in DSTrace or through a trace log.

EXERCISE 7

Use the Resource Kit to disable login for Kevin Chester (kchester) and list which tool was used to complete the task.

EXERCISE 8

Use the Resource Kit to answer the following questions and list where the information was found.

1. What version of Identity Manager is currently running?
2. Does the business-logic driver have any pending associations?

3. When does Identity Manager expire, if it is not activated?
4. What is the startup option for the state-machine driver?
5. Is bbrown a member of the IT group?
6. What is Ricardo Castro's Personal ID? (iManager User profile)

Answers

- ♦ "Answer for Exercise 1" on page 2
- ♦ "Answer for Exercise 2" on page 2
- ♦ "Answer for Exercise 3" on page 2
- ♦ "Answer for Exercise 4" on page 2
- ♦ "Answer for Exercise 5" on page 3
- ♦ "Answer for Exercise 6" on page 3
- ♦ "Answer for Exercise 7" on page 3
- ♦ "Answer for Exercise 8" on page 3

ANSWER FOR EXERCISE 1

Use the VMware documentation to configure VMware Workstation or the VMware Player.

- 1 Make sure your VMware host is configured with two network adapters.
 - 1a Configure the first network adapter with NAT on the network with an address of 172.17.2.0.
 - 1b Configure the second network adapter as bridged.
- 2 Download the VMware image from the [Novell Compliance Management Platform download Web site](http://download.novell.com/Download?buildid=hy7PSEnvLLY~) (<http://download.novell.com/Download?buildid=hy7PSEnvLLY~>).
- 3 Run the VMware image.

ANSWER FOR EXERCISE 2

- ❑ **iManager:** Used for administration tasks in Identity Manager.
 - ♦ **URL:** <https://172.17.2.117:8443/nps/iManager.html>
 - ♦ **Username:** admin
 - ♦ **Password:** n0v3ll
 - ♦ **Tree:** 172.17.2.117
- ❑ **iMonitor:** Used for monitoring eDirectory™. It is also used for troubleshooting Identity Manager drivers through DSTrace.
 - ♦ **URL:** <https://172.17.2.117:8030>
 - ♦ **Username:** admin.admins.system
 - ♦ **Password:** n0v3ll

❑ **User Application Administration Portal:**

Administers the User Application.

- ♦ **URL:** <https://172.17.2.117:8444/IDMProv>
- ♦ **Username:** cn=padmin,dc=admin,dc=system
- ♦ **Password:** n0v3ll

❑ **User Application User Portal:** Allows users to change their passwords and request resources.

- ♦ **URL:** <https://172.17.2.117:8444/IDMProv>
- ♦ **Username:**
cn=ablake,ou=users,o=company,dc=data or any other users in the system
- ♦ **Password:** ablake or the username you are currently using.

ANSWER FOR EXERCISE 3

The users receive an e-mail 30 days, 15 days, 5 days, and one day before their passwords expire. This notification system reduces call center calls from users who are locked out because their passwords expired. The Password Expiration Notification job must be enabled for this feature to function. By default, the job is enabled. For more information about this feature, see the "Configuring the Password Expiration Notification Job" in the *Identity Manager 3.6 Jobs Guide*.

To verify the job is enabled:

- 1 Log in to iManager as the admin user.
- 2 Select the *Identity Manager Administration* icon in the toolbar, then select *Administration > Identity Manager Overview*.
- 3 Click *Search* to find the driver set object.
- 4 Click the driver set to access the Driver Set Overview page.
- 5 Click the *Jobs* tab.
- 6 Select the Password Expiration Notification job, then verify the job is enabled.

ANSWER FOR EXERCISE 4

Yes, Universal Password is enabled for nnorth.

To find out if Universal Password is enabled for a user:

- 1 In iManager, select *Passwords > View Policy Assignments*.
- 2 Select nnorth to display the assigned Password Policy.
- 3 Click *Password Policies* under the Passwords task, then select the policy that is assigned to nnorth.
- 4 Click *Universal Password > Configuration Options*, then verify that *Enable Universal Password* is selected.

ANSWER FOR EXERCISE 5

You can trace Identity Manager events in order to troubleshoot Identity Manager. If a driver is not starting, or if an expected event does not occur, the traces show why. You can log events directly to a file or you can use DSTrace to view the results.

To log events directly to a file:

- 1 In iManager, select the *Identity Manager Administration* icon in the toolbar, then select *Administration > Identity Manager Overview*.
- 2 Click the *driverset1* in the lists of driver sets.
- 3 Click the upper right corner of the driver, then select *Edit properties*.
- 4 Select the *Misc* tab.
- 5 Set the trace level to 5.
- 6 Specify a trace filename. For example, `/tmp/business-logic.log`.

Logging events directly to the file, bypasses DSTrace and writes the Identity Manager events directly to the file. If you need to consult Novell Support, they require this file for troubleshooting.

To enable DSTrace only for Identity Manager events:

- 1 In iMonitor, select *Trace Configuration*.
- 2 Click *Clear All* to remove the current settings.
- 3 Select *DirXML* and *DirXML Drivers* to see only Identity Manager events.
- 4 Click *Trace on* to enable tracing, if it is off.
- 5 Click *Update* to save the changes if tracing is enabled.
- 6 Click *Trace Live*, then click *Update* to view the current DSTrace.
- 7 Click *Trace Off* in the *Trace Configuration* to turn DSTrace off.

To increase the trace level on the driver set:

- 1 In iManager, select the *Identity Manager Administration* icon in the toolbar, then select *Administration > Identity Manager Overview*.
- 2 Click the *driverset1* in the lists of driver sets.
- 3 Click the driver set, then click *Edit Driver Set Properties*.
- 4 Select the *Misc* tab.
- 5 Increase the *Driver Trace level* to 5.

To increase the trace level for a driver:

- 1 In iManager, select *Administration > Identity Manager Overview*, then click *Search* to find the driver set.

- 2 Click the upper right corner of the driver, then select *Edit properties*.
- 3 Select the *Misc* tab, then increase the *Trace level* to 5.

ANSWER FOR EXERCISE 6

The Resource Kit is designed to use the Active Directory driver. However, an Active Directory domain and an Active Directory driver must be installed and configured to use with the Resource Kit. This exercise is to walk you through the required steps to configure the Active Directory driver.

To add the Active Directory driver:

- 1 In Designer, drag and drop the Active Directory driver into the project.
- 2 Use “[Creating the Driver in Designer](#)” in the *Identity Manager 3.6.1 Driver for Active Directory Implementation Guide* to create the new driver.

For the Active Directory driver to function, you must install and configure the Remote Loader on the Active Directory server. For installation instructions, see “[Installing the Remote Loader](#)” in the *Identity Manager 3.6.1 Installation Guide*.

Follow the steps in Answer 5 to enable tracing.

To deploy the project:

- 1 In Designer, select the Identity Vault object in the Outline view.
- 2 Right-click and select *Live > Deploy*. Follow the prompts to deploy the project into the Identity Vault.

ANSWER FOR EXERCISE 7

In iManager, browse to and select *kchester*. Select *Restrictions > Login Restrictions*, then select *Account disabled*.

ANSWER FOR EXERCISE 8

- ♦ **Question 1:** IDM 3.6. In iManager on the Driver Set Overview page, click *Driver Set > Version information*. Select the server object, then click the plus icon to display version information about Identity Manager.
- ♦ **Question 2:** In iManager, select *Administration > Driver Inspector*. Browse to and select the *business-logic* driver. The Driver Inspector lists all objects associated with the driver and the association states.
- ♦ **Question 3:** The activation state is displayed in iManager on the Identity Manager Overview page. Every instance of Identity Manager has a 90-day license. If it is not activated within 90 days, the license expires.
- ♦ **Question 4:** Automatic. Check the properties of the state-machine driver in Designer or iManager to see this setting.

- ♦ **Questions 5:** Yes. He is a member of the IT group. In iManager, select bbrown, then click the *Group Membership* tab.
- ♦ **Question 6:** 1020324. In iManager, select rcastro, then click the *User Profile* tab.

Legal Notice

Copyright © 2008-2009 Novell, Inc. All rights reserved. No part of this publication may be reproduced, photocopied, stored on a retrieval system, or transmitted without the express written consent of the publisher. For Novell trademarks, see [the Novell Trademark and Service Mark list \(http://www.novell.com/company/legal/trademarks/tmlist.html\)](http://www.novell.com/company/legal/trademarks/tmlist.html). All third-party trademarks are the property of their respective owners. A trademark symbol (®, TM, etc.) denotes a Novell trademark; an asterisk (*) denotes a third-party trademark.