Overview Guide

Novell®
Identity Manager Resource Kit

1.2
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Contents

About This Guide

This overview guide for the Identity Manager Resource Kit explains what the Resource Kit is and explains how to begin using it.

Audience

 This guide is intended for Identity Manager administrators.

Feedback

We want to hear your comments and suggestions about this manual and the other documentation included with this product. Please use the User Comments feature at the bottom of each page of the online documentation, or go to www.novell.com/documentation/feedback.html and enter your comments there.

Documentation Updates

For the most recent version of the *Identity Manager Resource Kit 1.2 Overview Guide*, visit the Novell Compliance Management Platform Documentation Web site (http://www.novell.com/documentation/ncmp10).

Additional Documentation

For documentation on Identity Manager, see the Identity Manager Documentation Web site (http://www.novell.com/documentation/idm36/index.html).

Documentation Conventions

In Novell documentation, a greater-than symbol (>) is used to separate actions within a step and items in a cross-reference path.

A trademark symbol ($^{®}$, ™, etc.) denotes a Novell trademark. An asterisk (*) denotes a third-party trademark.

When a single pathname can be written with a backslash for some platforms or a forward slash for other platforms, the pathname is presented with a backslash. Users of platforms that require a forward slash, such as Linux* or UNIX*, should use forward slashes as required by your software.

Overview

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The Novell® Identity Manager Resource Kit is a set of components designed to accelerate the deployment and to increase the quality of real-world business solutions based on the Novell Identity and Security Management software stack. The primary purpose of the Resource Kit is to provide partners and system integrators a repeatable way to implement an Identity Manager solution quickly, efficiently, and with a high level of quality. Figure 1-1 is a graphical representation of the Resource Kit.

Figure 1-1 *Components of the Novell Identity Manager Resource Kit*
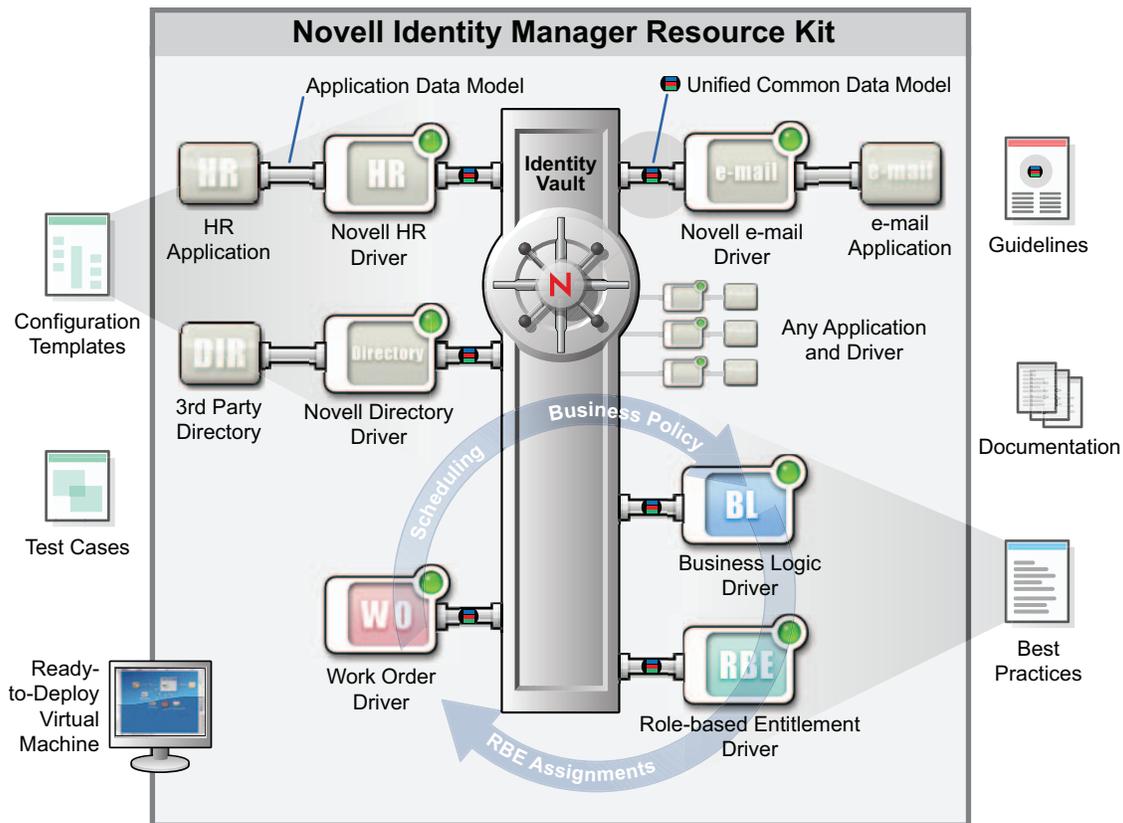
The Resource Kit contains:

- A ready-to-deploy virtual machine that provides a complete enterprise-level identity solution.
- Configuration templates to use with a custom identity solution.
- Templates that contain complete solution configurations to quickly start new projects.
- Documentation that contains best practices, guidelines, and solutions for a custom Identity Manager deployment.
- A unique test and business policy re-attestation harness.
- Test cases

To gain a quick understanding of what the Resource Kit can do, there are exercises included in the documentation. The exercises walk you through solutions contained in the Resource Kit. The exercises are "Exercise for the Metadirectory" (http://www.novell.com/documentation/ncmp10/rk12_qs_meta/data/bdr9gf1.html) and Exercises for the Provisioning Modules (http://www.novell.com/documentation/ncmp10/rk12_qs_provision/data/bdrcd2f.html).

What's New

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2.1 Dynamic System Information in Desktop Wallpaper

System information is displayed in the wallpaper on the desktop of the VMware* image. If the information is changed or updated, the displayed information is updated.

2.2 Contributions to Additional Products

The Resource Kit has added features to additional products.

2.2.1 Identity Manager 3.6

- **Credential Provisioning Policies:** Added Credential Provisioning policies to the Active Directory* and Lotus Notes* driver configuration files. For more information, see "Single Sign-On Solution Using Credential Provision Policies" in the *Identity Manager Resource Kit 1.2 Business Solutions Reference Guide*.

- **Driver Configuration Development:** Completed the first step in applying the driver configuration development guidelines to all shipping driver configuration files. For more information, see "Identity Manager Driver Configuration Development Guidelines" in the *Identity Manager Resource Kit 1.2 Architecture Reference Guide*.

- **Default Driver Health Monitoring:** Added the default driver health monitoring to all shipping driver configuration files. For more information, see "Monitoring Driver Health" in the *Identity Manager 3.6 Common Driver Administration Guide*.

- **Password Expiration Notification Job:** The Password Expiration Notification job was developed in a prior release of the Resource Kit. The job is now included as part of Identity Manager 3.6. For more information, see "Configuring the Password Expiration Notification Job" in the *Identity Manager 3.6 Jobs Guide*.

- **ID Provider Driver:** The ID Provider driver was developed in a prior release of the Resource Kit. The driver is now included as of Identity Manager 3.6. For more information, see the *Identity Manager 3.6 ID Provider Driver Implementation Guide*.

2.2.2 Compliance Management Platform

◆ **Account Tracking Policies:** Added account tracking policies to the Active Directory and LDAP default driver configuration files to support account tracking. For more information, see "DirXML-Accounts Attribute" in the *Identity Manager 3.6 Driver for Sentinel 6.1 and the Identity Vault Collector Implementation Guide*.

◆ **Business Logic Audit Event Policies:** Added business logic level audit event generation policies to the Active Directory and LDAP default driver configuration files to support account tracking. For more information, see "Custom Events" in the *Identity Manager 3.6 Driver for Sentinel 6.1 and the Identity Vault Collector Implementation Guide*.

◆ **Identity Manager Driver for Sentinel:** Created the Identity Manager driver for Sentinel as part of the Compliance Management Platform solution. For more information, see the *Identity Manager 3.6 Driver for Sentinel 6.1 and the Identity Vault Collector Implementation Guide*.

2.2.3 Designer 3.0

Updated the Driver Configuration Wizard in Designer 3.0., which reduces the number of prompts that are presented during configuration. Moved more of the cofiguration into GVCs. For more information, see "Information in the Driver Configuration Wizard" in the *Designer 3.0 for Identity Manager 3.6 Administration Guide*.

2.3 Updated Resource Kit Components

The components that make up the Identity Manager Resource Kit 1.2 have been updated. The VM image now contains the following components:

◆ SUSE® Linux Enterprise Server (SLES) 10 SP2

◆ eDirectory™ 8.8.3

◆ Identity Manager 3.6

◆ iManager 2.7 SP1

◆ Designer 3.0

◆ Novell® Audit 2.02 FP5

◆ XPOZ 1.6

2.4 XPOZ

XPOZ is a testing harness developed by Novell, which has been used internally for several years to test core eDirectory functionality. Some time ago it was extended to test the Identity Manager and many of the associated drivers. Now it is being implemented to validate the functionality and quality of the defined scenarios of the Resource Kit.

The most recent version adds a results system to display the test runs on a Web page. For more information, see "What's New" in the *Identity Manager Resource Kit 1.2 Reference Guide for XPOZ 6.1*.

2.5 New Documentation

- ◆ **Architecture Guide:** The architecture of the Resource Kit is now documented to explain how and why the Resource Kit is configured the way it is. For more information, see the *Identity Manager Resource Kit 1.2 Architecture Reference Guide*.

- ◆ **Business Solutions Guide:** Different business solutions that are implemented in the Resource Kit are now documented in the *Identity Manager Resource Kit 1.2 Business Solutions Reference Guide*.

Implementing the Resource Kit

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There are two ways to implement the Resource Kit.

- Section 3.1, "Using the Virtual Machine to Implement the Resource Kit," on page 15
- Section 3.2, "Manually Implementing the Resource Kit," on page 16

3.1 Using the Virtual Machine to Implement the Resource Kit

You can rapidly implement the Resource Kit with the virtual machine. It is a VMware image of a SLES 10 SP2 server with all Identity Manager components installed and configured. It provides an enterprise-level solution out of the box.

To use the VMware image:

1 Download the Resource Kit VMware image from the Resource Kit download Web site (http://download.novell.com/index.jsp).

2 Request access to the Resource Kit files by specifying your name, your company's name, and your e-mail address. You will receive an e-mail stating you have received permission to access the files.

3 Download all three zipped files.

- `RK12FCS1_of3.zip`
- `RK12FCS2_of3.zip`
- `RK12FCS3_of3.zip`

They require approximately 3.5 GB of disk space.

4 Unzip the files to a location of your choice. The unzipped files require at least 10 GB of disk space for the Resource Kit VMware image.

You can launch the VMware image with VMware Server, VMware Workstation, or the VMware Player.

5 If you are using VMware Server or VMware Workstation, review and adjust as necessary the virtual image settings for:

- Memory usage (the default is 1024 MB)
- Number of CPUs (the default is 1)
- Whether the networking topography is bridged or NAT (the default is bridged)

Only one network adapter is required. These settings are set to the default values if you are using the VMware Player.

6 On the VMware system, select *VMware Menu > Open Existing Virtual Machine*, then browse to the location of the unzipped files from Step 4.

The virtual machine name is `RK12.vmx`. After the machine is open, you can edit the settings listed in Step 5.

7 Start the virtual machine.

The Resource Kit virtual machine is configured so that when it powers on, the boot script detects the virtual MAC addresses on the VMware network adapters assigned to the machine and creates the necessary ifcfg networking files for SLES 10 SP2 to use (eth0, eth1, etc.). These network adapters are set to DHCP by default.

As the boot process continues, another boot script properly formats the eDirectory™ configuration file (`nds.conf`) for the DHCP assigned network adapters found during bootup. Then the boot process starts all necessary processes (eDirectory, iManager, MySQL*, etc.) on the assigned DHCP network adapters. After the boot process is complete, all Resource Kit components are available on the DHCP assigned network address.

If you want to use a static IP address for the Resource Kit:

1 Log in to the Resource Kit as `root`.

2 At the command line, enter `yast2 lan`.

3 Configure the static IP address information for the discovered virtual adapters.

4 Reboot the Resource Kit virtual machine.

When the Resource Kit virtual image reboots, the boot process performs some additional actions:

1. Detects that the network adapters are configured with a static IP address.

2. Adds the static IP address to the eDirectory configuration file (`nds.conf`).

3. Proceeds with the normal boot process.

When the Resource Kit virtual machine is up and running, all of the Resource Kit components are visible on the static network interfaces.

You can now use the Identity Manager solution for demonstrations or for rapid deployment.

3.2 Manually Implementing the Resource Kit

The Resource Kit contains a Designer project and documentation that walks you through setting up and configuring the same Identity Manager solution that is provided in the VMware image. It allows you to see how all of the components have been installed and configured. If you want to use real hardware instead of a VMware image, leave out any steps that are specific to VMware.

1 Download the Resource Kit Designer project from the Identity Manager Resource Kit download Web site (http://download.novell.com/index.jsp). The filename is `RK12_Project.zip`.

2 Set up a VMware host.

You can use any of the VMware products to create a host. For more information, see the VMware Web site (http://www.vmware.com/).

3 Install a SLES 10 SP2 server by using the instructions in the *Identity Manager Resource Kit 1.2 Installation Guide for SUSE Linux Enterprise Server 10 SP2*.

4 Install and configure the Identity Manager software components by using the instructions in the *Identity Manager Resource Kit 1.2 Installation Guide for the Identity Manager Components*.

After following the instructions in the guides, you have the same system that is contained in the VMware image.

Resource Kit Configuration Values

Whether you are using the VMware image or manually creating the Resource Kit using the Designer project, you need configuration values. Refer to the following tables for these values you need.

Table 4-1 *SLES System Accounts*

Account	Password	Description
root	n0v3ll	Use this account for installation and configuration only. Do not log into the Resource Kit as `root`, only as the admin user or the idmsa user.
admin	n0v3ll	This is the primary account you use when logging into the SLES server and doing development work.
idmsa	n0v3ll	This account is used when installing and configuration the User Application.

Table 4-2 *MySQL Accounts*

Account	Password	Description
root	n0v3ll	This account is for database administration. The User Application and Novell® Audit use this account to log into the MySQL* database.
mysqlshutdown	n0v3ll	The account is used to run the startup and shutdown scripts for the User Application.

Table 4-3 *Network Settings*

Settings	Value
IP Address	172.17.2.117
Netmask	255.255.255.0
Gateway	172.17.2.2
DNS	172.17.2.2

Table 4-4 *eDirectory Values*

Parameter	Value
Tree Name	META
Server Name	metaserver1
Server Context	dc=metaserver1.dc=servers.dc=system
Admin User	cn=admin.dc=admins.dc=system
NCP Port Number to Listen on	524
eDirectory™ DIB Location	`/var/opt/novell/eDirectory/META/data/dib`
Configuration File	`/var/opt/novell/eDirectory/META/nds.conf`
Admin User's Password	n0v3ll

Table 4-5 *eDirectory Accounts*

Name	Password	Description
admin.admins.system	n0v3ll	The administrator account for eDirectory.
padmin.admins.system	n0v3ll	The administrator account for the User Application.
ablake.users.company.data	The user's name.	A predefined user account.
achung.users.company.data	The user's name.	A predefined user account.
apalani.users.company.data	The user's name.	A predefined user account.
asmith.users.company.data	The user's name.	A predefined user account.
aspencer.users.company.data	The user's name.	A predefined user account.
bbender.users.company.data	The user's name.	A predefined user account.
bbrown.users.company.data	The user's name.	A predefined user account.
bburke.users.company.data	The user's name.	A predefined user account.
bjenner.users.company.data	The user's name.	A predefined user account.
bjones.users.company.data	The user's name.	A predefined user account.
cblack.users.company.data	The user's name.	A predefined user account.
ccentral.users.company.data	The user's name.	A predefined user account.
cnano.users.company.data	The user's name.	A predefined user account.
eeuro.users.company.data	The user's name.	A predefined user account.
fstats.users.company.data	The user's name.	A predefined user account.
jbrown.users.company.data	The user's name.	A predefined user account.
jkelley.users.company.data	The user's name.	A predefined user account.

Name	Password	Description
jmiller.users.company.data	The user's name.	A predefined user account.
jsmith.users.company.data	The user's name.	A predefined user account.
jwest.users.company.data	The user's name.	A predefined user account.
kcarson.users.company.data	The user's name.	A predefined user account.
kchang.users.company.data	The user's name.	A predefined user account.
kchester.users.company.data	The user's name.	A predefined user account.
kkeller.users.company.data	The user's name.	A predefined user account.
ksmith.users.company.data	The user's name.	A predefined user account.
mmackenzie.users.company.data	The user's name.	A predefined user account.
nnorth.users.company.data	The user's name.	A predefined user account.
rcastro.users.company.data	The user's name.	A predefined user account.
rresource.users.company.data	The user's name.	A predefined user account.
ssouth.users.company.data	The user's name.	A predefined user account.
tmellon.users.company.data	The user's name.	A predefined user account.
tswan.users.company.data	The user's name.	A predefined user account.

Table 4-6   *File Locations*

Description	Directory
Designer Workspace	/admin/home/workspace/RK12
Identity Manager Jar Files	/opt/novell/eDirectory/lib/dirxml/classes/
User Application	/opt/novell/idm
iManager	/opt/novell/iManager
Designer	/opt/novell/designer

Table 4-7   *URLs for the Web Interfaces*

Interface	URL
iManager	https://172.17.2.117:8443/nps/iManager.html
iMonitor	https://172.17.2.117:8030/
User Application	https://172.17.2.117:8444/IDMProv

Table 4-8 *Delimited Text Driver Directories*

Directory Location	Description
/var/novell/users/input	CSV input directory
/var/novell/users/input/images	Images input directory
/var/novell/users/output	CSV output directory
/var/novell/users/output/images	Images output directory

The Designer directory is /admin/home/workspace/RK12/Designer/Documents/
Resources.

Table 4-9 *Designer Project Files*

File	Description
artwork/Background_Green_1280x1024.jpg	The Resource Kit background image for non-admin users.
artwork/Background_Orange_1280x1024.jpg	The Resource Kit background image for the admin user.
artwork/Background_Red_1280x1024.jpg	The Resource Kit background image for the root user.
bootscripts/setndsconf	A script file that allows eDirectory to be visible on an external IP address. For more information, see "Solution for Making eDirectory Visible on the External IP Address" in the *Identity Manager Resource Kit 1.2 Business Solutions Reference Guide*.
bootscripts/userapp	A startup script that allows the User Application to automatically start. It must be adapted and placed into the /etc/init.d folder in the Resource Kit. For more information, see "Configuring the User Application for Automatic Startup" in the *Identity Manager Resource Kit 1.2 Installation Guide for the Identity Manager Components*.
config/logevent.conf	A sample configuration file for audit instrumentation.
config/ResourceKitConfiguration.ldif	Creates the complete tree structure for the Resource Kit. It also includes extensive configuration information for Role-Based Entitlements and the ID Provider driver.
config/ResourceKitSampleData.ldif	Creates the sample users and groups in the Resource Kit tree structure. It allows you to fully test the functionality of the Resource Kit with real data.
config/ResourceKitSampleSchema.ldif	Contains all the schema extensions necessary to load the sample data in the ResourceKitSampleData.ldif file.

File	Description
`config/ResourceKitSchema.ldif`	Contains the schema required for the Resource Kit to function.
`config/sampledata/photos`	Contains all of the photos from the sample data in the `ResourceKitSampleData.ldif` file. The photos can be imported by using the image import/export driver. For more information, see "Getting a Baseline of Business Logic" in the *Identity Manager Resource Kit 1.2 Installation Guide for the Identity Manager Components*.
`config/sampledata/add-photos.ldif`	Contains all the photos from the sample data in the `ResourceKitSampleData.ldif` file. You can use ICE to load the photos if you are not using the image import/export driver. For more information, see "Novell Import Conversion Export Utility" (http://www.novell.com/documentation/edir88/edir88/data/a5hgmnu.html) in the *Novell eDirectory 8.8 Administration Guide* (http://www.novell.com/documentation/edir88/edir88/data/a2iii88.html).
`config/sampledata/del-photos.ldif`	Deletes all the photos from all the user objects so that they can be imported again for testing.
`config/sampledata/employees.csv`	Sample employee data that can be imported by using the user import/export driver. For more information, see "Getting a Baseline of Business Logic" in the *Identity Manager Resource Kit 1.2 Installation Guide for the Identity Manager Components*.
`driverconfigs/BusinessLogic-ResKit-IDM3_6_0-V4.xml`	The business logic driver configuration file for the Resource Kit.
`driverconfigs/DelimitedText-IMG-ResKit-IDM3_6_0-V4.xml`	The image import/export driver configuration file for the Resource Kit.
`driverconfigs/StateMachine-ResKit-IDM3_6_0-V3.xml`	The state machine driver configuration file for the Resource Kit.
`driverconfigs/UserApplication_3_6_1-ResKit-IDM3_6_0-V2.xml`	The user application driver configuration file for the Resource Kit.
`driverconfigs/WorkOrder-IDM3_6_0-V4.xml`	The WorkOrder driver configuration file for the Resource Kit.
`provisioning_requests/NewEmployeeConfirmation.xml`	The new employee configuration workflow. For more information, see "New Hire Business Logic" in the *Identity Manager Resource Kit 1.2 Architecture Reference Guide*.

File	Description
`provisioning_requests/ Request_AD_Account.xml`	A workflow to request an Active Directory Account. For more information, see the *Identity Manager Resource Kit 1.2 Architecture Reference Guide*
`provisioning_requests/ Rogue_Administration_Activity.xml`	The rogue administration activity workflow. The workflow is used in the rogue administration use case. For more information, see "Sending Alerts when Rogue Administration Occurs" in the *Novell Compliance Management Platform1.0 Integration Guide*.
`provisioning_requests/ TerminatedEmployeeManagerApproval.xml`	The terminated employee manager approval workflow. For more information, see "Termination Business Logic" in the *Identity Manager Resource Kit 1.2 Architecture Reference Guide*.
`quality/processtests/processtest.env`	An XPOZ script file to test the processes of an employee life cycle. For more information, see "Processes Test" in the *Identity Manager Resource Kit 1.2 Test Cases Reference Guide*.
`quality/stability/IDV-stability/IDV- stability.env`	An XPOZ script file to test the stability of the Identity Vault. For more information, see "Stability Test" in the *Identity Manager Resource Kit 1.2 Test Cases Reference Guide*.
`UA_DAL/DirectoryAbstractionLayer.xml`	An export of the directory abstraction layer from the Resource Kit.
`UAPortal/PortalData_04-08- 08_16_29_12.zip`	The custom User Application portal for registering new employees. For more information, see "Importing the Custom Portal Page" in the *Identity Manager Resource Kit 1.2 Installation Guide for the Identity Manager Components*.