



NetIQ® Identity Manager

Driver for Azure Implementation Guide

2015

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About this Book and the Library

The *Identity Manager Driver for Azure Active Directory Implementation Guide* explains how to install and configure the Identity Manager Driver for REST.

Intended Audience

This book provides information for administrators implementing Identity Manager, application server developers, Web services administrators, and consultants, who also have an understanding of DSML/SPML, REST, JSON and HTML.

Other Information in the Library

The library provides the following information resources:

Identity Manager Setup Guide

Provides overview of Identity Manager and its components. This book also provides detailed planning and installation information for Identity Manager.

Designer Administration Guide

Provides information about designing, testing, documenting, and deploying Identity Manager solutions in a highly productive environment.

User Application: Administration Guide

Describes how to administer the Identity Manager User Application.

User Application: User Guide

Describes the user interface of the Identity Manager User Application and how you can use the features it offers, including identity self-service, the Work Dashboard, role and resource management, and compliance management.

User Application: Design Guide

Describes how to use the Designer to create User Application components, including how to work with the Provisioning view, the directory abstraction layer editor, the provisioning request definition editor, the provisioning team editor, and the role catalog.

Identity Reporting Module Guide

Describes the Identity Reporting Module for Identity Manager and how you can use the features it offers, including the Reporting Module user interface and custom report definitions, as well as providing installation instructions.

Analyzer Administration Guide

Describes how to administer Analyzer for Identity Manager.

Identity Manager Common Driver Administration Guide

Provides information about administration tasks that are common to all Identity Manager drivers.

Identity Manager Driver Guides

Provides implementation information about Identity Manager drivers.

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We are a global, enterprise software company, with a focus on the three persistent challenges in your environment: Change, complexity and risk—and how we can help you control them.

Our Viewpoint

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- ♦ Access Management
- ♦ Security Management
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About This Guide

This guide explains how to install and configure the Identity Manager Driver for REST. The guide includes the following information:

- ♦ [Chapter 1, “Overview,” on page 11](#)
- ♦ [Chapter 2, “Installing the Driver Files,” on page 13](#)

Audience

This guide is intended for administrators implementing Identity Manager, application server developers, Web services administrators, and consultants. You should also have an understanding of DSML/SPML, REST,JSON and HTML.

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 this document, see the [Identity Manager Drivers Documentation Web site \(http://www.netiq.com/documentation/idm45drivers/index.html\)](http://www.netiq.com/documentation/idm45drivers/index.html).

Additional Documentation

For information on Identity Manager, see the [Identity Manager Documentation Web site \(http://www.netiq.com/documentation/idm45drivers\)](http://www.netiq.com/documentation/idm45drivers).

1 Overview

The NetIQ Identity manager driver for Azure is designed to synchronize data between the Identity Vault and Azure. The Azure Active Directory Graph API provides programmatic access to Azure AD through REST API endpoints. The driver is used as a cloud application that is configured to work with an Azure Active Directory.

1.1 Key Terms

- ♦ [Section 1.1.1, “Identity Manager,” on page 11](#)
- ♦ [Section 1.1.2, “Connected System,” on page 11](#)
- ♦ [Section 1.1.3, “Identity Vault,” on page 11](#)
- ♦ [Section 1.1.4, “Identity Manager Engine,” on page 11](#)
- ♦ [Section 1.1.5, “Driver Shim,” on page 12](#)
- ♦ [Section 1.1.6, “Driver Packages,” on page 12](#)
- ♦ [Section 1.1.7, “Remote Loader,” on page 12](#)

1.1.1 Identity Manager

NetIQ Identity Manager is a service that synchronizes data among servers in a set of connected systems by using a robust set of configurable policies. Identity Manager uses the Identity Vault to store shared information, and uses the Identity Manager engine for policy-based management of the information as it changes in the vault or connected system. Identity Manager runs on the server where the Identity Vault and the Identity Manager engine are located.

1.1.2 Connected System

A connected system is any system that can share data with Identity Manager through a driver.

1.1.3 Identity Vault

The Identity Vault is a persistent database powered by eDirectory and used by Identity Manager to hold data for synchronization with a connected system. The vault can be viewed narrowly as a private data store for Identity Manager or more broadly as a metadirectory that holds enterprise-wide data. Data in the vault is available to any protocol supported by eDirectory, including the NetWare Core Protocol (NCP), which is the traditional protocol used by iManager, and LDAP.

Because the vault is powered by eDirectory, Identity Manager can be easily integrated into your corporate directory infrastructure by using your existing directory tree as the vault.

1.1.4 Identity Manager Engine

The Identity Manager engine is the core server that implements the event management and policies of Identity Manager. The engine runs on the Java Virtual Machine in eDirectory.

1.1.5 Driver Shim

A driver shim is the component of a driver that converts the XML-based Identity Manager command and event language (XDS) to the protocols and API calls needed to interact with a connected system. The shim is called to execute commands on the connected system after the Output Transformation runs. Commands are usually generated on the Subscriber channel but can be generated by command write-back on the Publisher channel.

1.1.6 Driver Packages

The packages for the Azure driver are available on the Package Update site. When you create a driver with packages in Designer, Designer creates a set of policies and rules suitable for synchronizing with the Azure driver.

1.1.7 Remote Loader

A Remote Loader enables a driver shim to execute outside of the Identity Manager engine (perhaps remotely on a different machine). The Remote Loader is a service that executes the driver shim and passes information between the shim and the Identity Manager engine.

For the Azure driver, install the driver shim on the server where the Remote Loader is running. You can choose to use SSL to encrypt the connection between the Identity Manager engine and the Remote Loader.

1.2 Driver Concepts

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1.3 Support for Standard Driver Features

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2 Installing the Driver Files

NetIQ supports installing the Azure driver on the Identity Manager server and on a remote server using the Remote Loader.

2.1 Prerequisites for Driver Installation

Before installing the driver, ensure that you download the following software to your Identity Manager environment.

