

One Identity Manager 9.1.1

Release Notes for CIM Module for Azure Cloud Access Governance

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This document provides information about the One Identity Manager and management of Azure cloud system.

For the most recent documents and product information, see [One Identity Manager documentation](#).

About this release

This release provides the following functionalities:

- Synchronization of data from Azure Cloud System to One Identity Manager.
- Azure Role Assignment to Azure Security Principals (AAD User, AAD Group, AAD Service Principal) through IT Shop.
- Direct Azure Role Assignment to Azure Security Principal (AAD User, AAD Group, AAD Service Principal) by Target System Managers.
- Remove Azure Role Assignment from Azure Security Principal (AAD User, AAD Group, AAD Service Principal) by Target System Managers.

Supported platforms

CIM Module can be configured with One Identity Manager 9.1.1.

NOTE: The System Requirements applicable to the One Identity Manager applies to CIM module for Azure Cloud Access Governance also.

New features

New features from the integration of One Identity Manager and CIM module for Azure Cloud Access Governance:

- An administrator of One Identity Manager can synchronize the data from Microsoft Azure Cloud system into One Identity Manager.
- Employees can request for Azure Role Assignment at a particular scope (Management Group, Subscription, Resource Group, Resource) for their AAD User account, AAD Groups and AAD Service Principals belonging to the Azure AD tenant through IT Shop.
- Target System Managers can assign Azure Roles to Azure Security Principals (AAD User, AAD Group, AAD Service Principal) directly.
- Target System Managers can remove Azure Roles from Azure Security Principals (AAD User, AAD Group, AAD Service Principal) directly.

Resolved issues

The following is a list of issues addressed in this release.

Table 1: Resolved issues

Resolved Issue	Issue ID
Fixed an issue where reports update of Role Assignments for Management Group, Subscription, Resource Group and Resource was unable to display direct role assignments along with role assignments at parent level scope.	410768
Fixed a functionality that allowed user to add/change role assignment for Groups, User and Service Principals across organization.	408548
Fixed issues in hyperview where hierarchy and scope details were not visible	419865

System Requirements

Ensure that your system meets the following minimum hardware and system requirements before installing One Identity Manager. For more detailed information about system prerequisites, see the One Identity Manager Installation Guide.

NOTE: When setting up a virtual environment, carefully consider the configuration aspects such as CPU, memory availability, I/O subsystem, and network infrastructure to ensure the virtual layer has the necessary resources available. Please consult [One Identity's Product Support Policies](#) for more information on environment virtualization.

Every One Identity Manager installation can be virtualized. Ensure that performance and resources are available to the respective One Identity Manager component according to system requirements. Ideally, resource assignments for the database server are fixed. Virtualization of a One Identity Manager installation should only be attempted by experts with strong knowledge of virtualization techniques.

Minimum requirements for the database server

A server must meet the following system requirements for installation of a One Identity Manager database. Depending on the number of One Identity Manager modules and the accounts managed in One Identity Manager, the requirements for working memory, hard disk storage, and processors may be significantly greater than the minimum requirements.

Table 2: Database Server Minimum requirements

Requirement	Details
Processor	8 physical cores with 2.5 GHz+ frequency (non-production) 16 physical cores with 2.5 GHz+ frequency (production) NOTE: 16 physical cores are recommended on the grounds of performance.
Memory	16 GB+ RAM (non-production) 64 GB+ RAM (production)
Free disk space	100 GB
Operating system	Windows operating systems <ul style="list-style-type: none">Note the requirements from Microsoft for the installed SQL Server version. UNIX and Linux operating systems <ul style="list-style-type: none">Note the minimum requirements given by the operating system manufacturer for SQL Server databases.
Software	SQL Server

Requirement

Details

- SQL Server 2019 Standard Edition (64-bit) with the current cumulative update

NOTE: The cumulative update 2 for SQL Server 2019 is not supported.

- SQL Server 2022 Standard Edition (64-bit) with the current cumulative update

NOTE: For performance reasons, the use of SQL Server Enterprise Edition is recommended for live systems.

- Compatibility level for databases: SQL Server 2019 (150)
- Default sort schema: case-insensitive, SQL_Latin1_General_CP1_CI_AS (Recommended)
- SQL Server Management Studio (recommended)

NOTE: The minimum requirements listed above are considered to be for general use. With each custom One Identity Manager deployment these values may need to be increased to provide ideal performance. To determine production hardware requirements, it is strongly recommended to consult a qualified One Identity Partner or the One Identity Professional Services team. Failure to do so may result in poor database performance.

For additional hardware recommendations, read the KB article <https://support.oneidentity.com/identity-manager/kb/290330/how-to-configure-settings-as-per-the-system-information-overview>, which outlines the System Information Overview available within One Identity Manager.

NOTE: In virtual environments, you must ensure that the VM host provides performance and resources to the database server according to system requirements. Ideally, resource assignments for the database server are fixed. Furthermore, optimal I/O performance must be provided, in particular for the database server. For more information about virtual environments, see [Product Support Policies](#).

Minimum requirements for the service server

The following system prerequisites must be fulfilled to install the One Identity Manager Service on a server.

Table 3: Service Server Minimum requirements

Requirement	Details
Processor	8 physical cores with 2.5 GHz+
Memory	16 GB RAM
Free disk space	40 GB
Operating system	Windows operating systems Following versions are supported: <ul style="list-style-type: none">• Windows Server 2022• Windows Server 2019• Windows Server 2016• Windows Server 2012 R2• Windows Server 2012 Linux operating systems <ul style="list-style-type: none">• Linux operation system (64 bit) supported by the Mono project or Docker images provided by the Mono project.
Additional Software	Windows operating systems <ul style="list-style-type: none">• Microsoft .NET Framework version 4.8 or later <p>NOTE: Take the target system manufacturer's recommendations for connecting the target system into account.</p> <hr/> Linux operating systems <ul style="list-style-type: none">• Mono 6.10 or later

Minimum requirements for clients

Table 4: Client Minimum requirements

Requirement	Details
Processor	4 physical cores with 2.5 GHz

Requirement	Details
Memory	4 GB+ RAM
Free disk space	1 GB
Operating system	Windows operating systems <ul style="list-style-type: none"> • Windows 11 (x64) • Windows 10 (32 bit or 64 bit) version 1511 or later • Windows 8.1 (32 bit or 64 bit) with the current service pack
Additional Software	Windows operating systems <ul style="list-style-type: none"> • Microsoft .NET Framework version 4.8 or later • Microsoft Edge WebView2
Supported browsers	<ul style="list-style-type: none"> • Firefox (Release channel) • Chrome (Release channel) • Microsoft Edge (Release channel)

Minimum requirements for the Web Server

The following system prerequisites must be fulfilled to install web applications on a web server.

Table 5: Web Server Minimum requirements

Requirement	Details
Processor	4 physical cores 1.65 GHz+
Memory	4 GB RAM
Free disk space	40 GB
Operating system	Windows operating systems <ul style="list-style-type: none"> • Windows Server 2022 • Windows Server 2019 • Windows Server 2016 • Windows Server 2012 R2 • Windows Server 2012 Linux operating systems <ul style="list-style-type: none"> • Linux operation system (64 bit) supported by the Mono project or Docker images provided by the Mono project. Please note the

Requirement	Details
Additional Software	<p data-bbox="523 264 1332 331">operating system manufacturer's minimum requirements for Apache HTTP Server.</p> <p data-bbox="443 353 813 383">Windows operating systems</p> <ul data-bbox="491 405 1380 1137" style="list-style-type: none"> <li data-bbox="491 405 1141 434">• Microsoft .NET Framework version 4.8 or later <li data-bbox="491 456 1380 1137">• Microsoft Internet Information Service 10 or 8.5 or 8 or 7.5 or 7 with ASP.NET 4.8 and Role Services: <ul data-bbox="571 539 1380 1137" style="list-style-type: none"> <li data-bbox="571 539 1348 568">• Web Server > Common HTTP Features > Static Content <li data-bbox="571 591 1252 658">• Web Server > Common HTTP Features > Default Document <li data-bbox="571 680 1284 710">• Web Server > Application Development > ASP.NET <li data-bbox="571 732 1340 799">• Web Server > Application Development > .NET Extensibility <li data-bbox="571 822 1244 889">• Web Server > Application Development > ISAPI Extensions <li data-bbox="571 911 1340 940">• Web Server > Application Development > ISAPI Filters <li data-bbox="571 963 1220 992">• Web Server > Security > Basic Authentication <li data-bbox="571 1014 1268 1043">• Web Server > Security > Windows Authentication <li data-bbox="571 1066 1380 1095">• Web Server > Performance > Static Content Compression <li data-bbox="571 1117 1236 1137">• Web Server > Performance > Dynamic Content Compression <p data-bbox="443 1160 813 1189">Linux operating systems</p> <ul data-bbox="491 1211 1252 1478" style="list-style-type: none"> <li data-bbox="491 1211 662 1240">• NTP Client <li data-bbox="491 1263 766 1292">• Mono 6.10 or later <li data-bbox="491 1314 1252 1478">• Apache HTTP Server 2.0 or 2.2 with following modules: <ul data-bbox="571 1359 774 1478" style="list-style-type: none"> <li data-bbox="571 1359 750 1388">• mod_mono <li data-bbox="571 1411 702 1440">• rewrite <li data-bbox="571 1462 774 1491">• ssl (optional)

Minimum requirements for the Application Server

The following system prerequisites must be fulfilled for installation of the application server.

Table 6: Application Server Minimum requirements

Requirement	Details
Processor	8 physical cores with 2.5 GHz+
Memory	8 GB RAM
Free disk space	40 GB
Operating system	Windows operating systems <ul style="list-style-type: none">• Windows Server 2022• Windows Server 2019• Windows Server 2016• Windows Server 2012 R2• Windows Server 2012 Linux operating systems <ul style="list-style-type: none">• Linux operation system (64 bit) supported by the Mono project or Docker images provided by the Mono project. Please note the operating system manufacturer's minimum requirements for Apache HTTP Server.
Additional Software	Windows operating systems <ul style="list-style-type: none">• Microsoft .NET Framework version 4.8 or later Microsoft Internet Information Service 10 or 8.5 or 8 or 7.5 or 7 with ASP.NET 4.8 and Role Services: <ul style="list-style-type: none">• Web Server > Common HTTP Features > Static Content• Web Server > Common HTTP Features > Default Document• Web Server > Application Development > ASP.NET• Web Server > Application Development > .NET Extensibility• Web Server > Application Development > ISAPI Extensions• Web Server > Application Development > ISAPI Filters• Web Server > Security > Basic Authentication• Web Server > Security > Windows Authentication• Web Server > Performance > Static Content Compression• Web Server > Performance > Dynamic Content Compression <p>Linux operating systems</p>

Requirement	Details
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- NTP Client
 - Mono 6.10 or later
 - Apache HTTP Server 2.0 or 2.2 with following modules:
 - mod_mono
 - rewrite
 - ssl (optional)

Product licensing

Use of this software is governed by the Software Transaction Agreement found at www.oneidentity.com/legal/sta.aspx. This software does not require an activation or license key to operate.

Upgrade and installation instructions

The procedure to install the CIM module is similar to the procedures involved in installation of other One Identity Manager modules. For information on the installation of CIM module, refer the *Installing One Identity Manager Components* section of the *One Identity Manager Installation Guide*.

More resources

Additional information is available from the following:

- [One Identity Manager support](#)
- [One Identity Manager online documentation](#)
- [Identity and Access Management community](#)
- [One Identity Manager training portal](#)

Globalization

This section contains information about installing and operating this product in non-English configurations, such as those needed by customers outside of North America. This section

does not replace the materials about supported platforms and configurations found elsewhere in the product documentation. This release is Unicode-enabled and supports any character set. It supports simultaneous operation with multilingual data. This release is targeted to support operations in the following regions: North America, Western Europe and Latin America, Central and Eastern Europe. The release is localized in the following languages: German. This version has the following capabilities or constraints: Other languages, designated for the Web UI, are provided in the product One Identity Manager Language Pack.