

# Hybrid Access Gateway requirements and interoperability

[Nexus Hybrid Access Gateway](#) comes as a virtual appliance and boasts simplified administration with easier deployments, upgrades and maintenance.

This article contains requirements and interoperability details for the [setup](#) and the different parts of Hybrid Access Gateway.

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This article is valid for Hybrid Access Gateway 5.13

## Related information

- [Deploy Hybrid Access Gateway and do initial setup](#)

## Requirements

Virtualization platform	Basic setup	Recommended setup for production environment
<b>VMware *</b>		
VMware Virtual Infrastructure	ESX/ESXi 3.5 or newer	ESXi 5.0
Memory available	3 GB	4 GB
CPU	2 GHz CPU	2 x 2 GHz CPUs
Disk size	12 GB	12 GB
<b>Microsoft Hyper-V **</b>		
Microsoft Hyper-V Server	2012 R2	2012 R2
Memory available	3 GB	4 GB
CPU	2 GHz CPU	2 x 2 GHz CPUs
Disk size	12 GB	12 GB

\* For proof of concept and testing VMware Fusion, VMware Workstation/Server or VirtualBox can be used.

\*\* For proof of concept and testing Hyper-V running on desktops can be used.

Hybrid Access Gateway stores its user representation in a database, the appliance comes with a built-in database (PostgreSQL). That means there are no requirements for external databases to get started. To read more about external database, see [Database service](#).

The following databases has been explicitly verified:

- MS SQL Server 2012 and later
- MySQL 5.7 and later
- Oracle 12c Release 2 (12.2.0.1.0) and Oracle 11g Release 2 (11.2)
- PostgreSQL 9.1 and later

Hybrid Access Gateway can link to existing users stored in a directory (LDAP). The virtual appliance is fully LDAP v3 compliant for connecting to these user storages.

The following directories has been explicitly verified:

- Microsoft Active Directory 2003 or later
- Novell eDirectory
- OpenLDAP
- Sun Java system Directory Server

## Links

- [JCE Unlimited Strength Jurisdiction Policy Files 8 Download](#)

- Oracle Internet Directory (tested for authentication)
- Tivoli Directory Server (tested for authentication)
- IBM RACF LDAP (tested for authentication)

To use stronger crypto functions the Unlimited Strength Jurisdiction Policy Files need to be downloaded manually and the old ones replaced.

- Java 8  
Location: /usr/lib/jvm/jdk1.8.0\_45/jre/lib/security/  
Download: <http://www.oracle.com/technetwork/java/javase/downloads/jce8-download-2133166.html>

Make sure to have the same rights on the new files as the old ones.

## Interoperability data

The following browsers are supported for the portal, administrator, federation, and web authentication:

- Windows
  - Chrome 13+
  - Firefox 6+
  - Internet Explorer 9+
  - Microsoft Edge
  - Opera 12+
- Mac OS X
  - Safari 5.1+
  - Chrome 38+
  - Firefox 6+
  - Opera 10+
- Linux
  - Chrome 48+
  - Firefox 31+
- iOS
  - Safari 6.0+
  - Chrome 19+
- Android
  - Chrome 51+

The following operating systems are supported for TruID:

- Windows XP
- Windows Vista
- Windows 7
- Windows 8
- Windows 10
- iOS 7+
- Android 2.1+
- Blackberry 10+
- MIDP 2.1

### Operating systems

The following operating systems are supported for the Access client:

- Windows 7
- Windows 8
- Windows 10
- Windows 2012 Server 64 bit
- Windows 2008 server 64 bit
- Mac OS X 10.11 and higher

## **Browsers**

The following browsers are supported for the access client:

- Internet Explorer 10+
- Edge 25+
- Chrome 45+
- Firefox 40+

This section contains details on the AccessNow compatibility for server client and target system.

### **Supported target server OS**

- Windows 2k3
- Windows 2k8
- Windows 2k12

### **Supported target client OS**

- Windows XP
- Windows 7
- Windows 8
- Windows 10
- Windows 2k3
- Windows 2k8
- Windows 2k12

### **Supported client browsers**

- Windows XP, 7, 8 and 10
  - Chrome 13+
  - Firefox 6+
  - Internet Explorer 10+
  - Opera 10+
- iOS
  - Safari 6.0+
  - Chrome 19+
- Android
  - Chrome 18+