

HP Operations Orchestration

For the Windows and Linux Operating Systems

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System Requirements

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Software Requirements

Software Requirements for Central and RAS

The Central application requires a dedicated database schema.

Component	Requirement
Supported operating systems	<ul style="list-style-type: none">• Microsoft Windows Server 2008 64 bit• Microsoft Windows Server R2 2008 64 bit• Microsoft Windows Server 2012 64 bit• Microsoft Windows Server R2 2012 64 bit• RedHat Enterprise Linux 5.x 64 bit• RedHat Enterprise Linux 6.x 64 bit• Ubuntu 12.04.x LTS
Supported databases	<ul style="list-style-type: none">• Oracle 11g R2• Oracle 11g R2 RAC• Oracle MySQL 5.5.x• Oracle MySQL 5.6.x• PostgreSQL 9.1.x• PostgreSQL 9.2.x• PostgreSQL 9.3.x• Microsoft SQL R2 Server 2008• Microsoft SQL Server 2012
Supported browsers	<ul style="list-style-type: none">• Microsoft Internet Explorer 9.x, 10.x, 11.x (latest)• Mozilla FireFox (latest + the two latest legacy versions)• Google Chrome (latest + the two latest legacy versions) <p>Recommended screen resolution: 1280 x 1024 or 1920 x 1080</p>
.NET Framework	Microsoft .NET Framework 4.5 or later, full installation. This is also required for RAS installations.

Software Requirements for the Database Server

Operating system support for database servers is according to the recommendations of the database vendor.

Software Requirements for Studio

Component	Requirement
Supported operating systems	<ul style="list-style-type: none">• Microsoft Windows 8 64 bit• Microsoft Windows 8.1 64 bit• Microsoft Windows Server 2012 64 bit• Microsoft Windows Server R2 2012 64 bit• Microsoft Windows Server 2008 64 bit• Microsoft Windows Server R2 2008 64 bit• Microsoft Windows 7 64 bit
.NET Framework	Microsoft .NET Framework 4.5 or later, full installation. This is also required for debugging flows with .NET operations. If you don't have .NET 4.5, any flows or operations with .NET will be marked as invalid in Studio.
Service packs	Microsoft Visual C++ 2008 SP1 redistributable package (x86). You need to download and install the version for the x86 platform, regardless of your Windows version (for example, if it is Windows x64). http://www.microsoft.com/en-us/download/details.aspx?id=29

Hardware Requirements

The hardware requirements described here are the minimal supported configuration.

Many customers may require more powerful hardware, depending on their load and usage of the system. In some cases, scaling out (adding nodes) is preferable to scaling up (stronger hardware).

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Hardware Requirements for HP OO Central and Database Servers

The minimum hard-drive space requirements differ depending on whether you install Central and the database on the same machine.

These requirements are for on-premise installations where the key components (central servers, RAS) are installed at the customer's site.

Component	Requirement per server (minimum)
CPU	<p>3 Gigahertz (GHz) for single-processor systems or 2 GHz for multi-processor systems</p> <p>Database server:</p> <ul style="list-style-type: none">• According to the database vendor's recommendations and requirements, but no less than 2 CPU cores <p>Central server:</p> <ul style="list-style-type: none">• Minimum: 1 CPU core• Recommended: 4 CPU cores

Memory (RAM)	<p>Database server:</p> <ul style="list-style-type: none"> As specified by the vendor, but no less than 4 Gigabyte (GB) <p>Central server:</p> <ul style="list-style-type: none"> Minimum: 2 GB Recommended: 4 GB
Hard-drive space	<p>Database server:</p> <ul style="list-style-type: none"> 2 GB for HP OO installation and base content pack deployment Minimum of 48 GB for HP OO operations (minimum of 50 GB table space) <p>Central server:</p> <ul style="list-style-type: none"> 2 GB

For off-premise installations, where the key components are installed on a cloud-based virtualized machine, the hardware requirements are:

- Central/RAS: For Cloud systems, an extra small machine
- Database: According to the database vendor's recommendations and requirements, but no less than a small machine.

Hardware Requirements for RAS Installations

Component	Requirement (minimum)
CPU	<p>2 GHz for single- or multi-processor systems</p> <p>Minimum: 1 CPU core</p> <p>Recommended: 4 CPU cores</p>
Memory (RAM)	1 GB
Hard-drive space	2 GB (this includes room for the flows and operations that are included in the installation)

Hardware Requirements for the Central Client

Web client machines for Central must meet the minimum hardware requirements for their web browser.

Hardware Requirements for HP OO Studio Installed on its Own Machine

Machines on which you install Studio must meet the minimum hardware requirements for their web browser or the following, whichever is higher.

Component	Requirement (minimum)
CPU	2 Gigahertz (GHz) for single- or multi-processor systems 1 CPU core
Memory (RAM)	2 GB (this is the amount of memory that the Studio process requires)
Hard-drive space	4 GB (this includes room for the flows and operations that are included in the installation)

Virtual Systems

Installation of the HP OO components on guest systems hosted by the following hypervisors is supported, as long as the guest systems meet the requirements described in this *System Requirements* document:

- VMware ESX Server, version 3.x or later
- Microsoft Hyper-V (for all supported Windows versions)

Cloud Deployments

HP Operations Orchestration can be installed on cloud computer units. On HP Cloud Services, the server components (Central, RAS) require a small machine, and the database should follow the database vendor's recommendations and requirements, but no less than a small machine.

