



VuGen

Software Version: 12.60-12.61

Installation Guide

Go to **HELP CENTER ONLINE**
<http://admhelp.microfocus.com/vugen/>

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Welcome to VuGen

Welcome to the VuGen Installation Guide.

VuGen is a tool for creating virtual user (Vuser) scripts, primarily through recording. Vuser scripts emulate users without a graphical user interface by using direct function calls.

This guide describes how to install and set up VuGen.

VuGen Help Center

For context sensitive help, click F1 within a dialog box or use the Help menu.

You can access the VuGen Help Center on the Web (<https://admhelp.microfocus.com/vugen/>), or use the locally installed Help Center. To switch between online and local modes, select **Help > Help Center Options > Open Online** or **Open Locally**.



Note:

- To view the Help Center in Internet Explorer or within VuGen, you need to enable JavaScript (Active scripting) in your browser settings (**Tools > Options > Security > Internet > Custom Level**).
- If the online Help Center is unavailable at the start of a VuGen application session, the **Open Online** option may be disabled during the whole session with that application.

Accessing PDF Files

To access VuGen Help in PDF format:

- In Windows operating systems prior to Windows 8: After installing VuGen, click **Start > All Programs > Micro Focus > VuGen > Documentation** and select the relevant document.
- In icon-based desktops such as Windows 8, search for **Guide** and select the appropriate user guide.

Useful Links

The following online resources provide more information for VuGen users:

Resource	URL
Help Center	Virtual User Generator Help Center (select the relevant version)

Resource	URL
Software Site	https://www.microfocus.com/
Software Support	https://software.microfocus.com/en-us/software/customer-technical-support-services
Knowledge Base and Manuals Library	https://softwaresupport.softwaregrp.com/group/software-support/ Note: Requires a Micro Focus Software Passport.
Community Forums	https://community.softwaregrp.com/t5/LoadRunner-Performance-Center/ct-p/sws-LoadRunner
Blogs	https://community.softwaregrp.com/t5/LoadRunner-and-Performance/bg-p/sws-585#.WkNITt-WZaQ
Resources Site	https://software.microfocus.com/en-us/resources/loadrunner
Integrations and Solutions	https://community.softwaregrp.com/
Twitter	https://twitter.com/hashtag/Loadrunner
LinkedIn	https://www.linkedin.com/groups/1879289
Facebook	https://www.facebook.com/groups/MFLoadRunner/

VuGen Components

The VuGen installation includes the following components:

- **Virtual User Generator (VuGen).** LoadRunner's tool for creating virtual user (Vuser) scripts, primarily through recording. Vuser scripts emulate users without a graphical user interface by using direct function calls.
- **TruClient.** Component for recording and developing test scripts for Web-based applications. For more information, see the [TruClient Help Center](#) (select the relevant version).

All of the standalone installations (for example, for VuGen) can be found in the LoadRunner installation package's **Standalone Applications** folder.

All of the additional components (such as the Citrix Agent and so on) can be found in the installation package's **Additional Components** folder.



Tip: You can also download VuGen, TruClient, TruWeb, VTS, and more, for free from [ADM Marketplace](#).

Help Improve VuGen

You can help us improve the quality, reliability, and performance of VuGen by participating in the VuGen improvement program. When you join the program, VuGen collects anonymous information about your software and hardware configuration, and about how you use VuGen.

VuGen does not collect any personally identifiable information, or any information about your company environment or the code of your scripts.

You can join the program by selecting the **Participate in VuGen improvement program** check box included in the initial VuGen Setup window, displayed at the beginning of installation.

You can also join or leave the improvement program from within VuGen. Select **Tools > Options > General > Usage Data Collector**.

System Requirements

This chapter includes:

- [System Requirements](#) 7
- [Prerequisite Software for Installation on Windows](#) 7
- [Installation Notes and Limitations](#) 8

System Requirements

The system requirements necessary for running VuGen on a Windows system are listed in the [System Requirements](#).

System requirements for other related components:

- **Diagnostics:** For system requirements, see Diagnostics system requirements at <https://softwaresupport.softwaregrp.com/km/KM02816022>.
- **Network Virtualization:** For system requirements and installation instructions, see the [Network Virtualization for LoadRunner and Performance Center Help](#) (select the relevant version) or the Network Virtualization installation guide in the **<LoadRunner installation package>\Additional Components\Network Virtualization** folder. You can install Network Virtualization during the VuGen installation, or at a later time.

Prerequisite Software for Installation on Windows

Before installing VuGen, make sure the prerequisite software is installed on the VuGen machine. Some of the prerequisite software is automatically detected and installed by the installer; other prerequisite software must be installed manually.

- ["Automatically detected and installed by the installer" below](#)
- ["Manual installation for Windows updates" on the next page](#)

Automatically detected and installed by the installer

When you run the installation wizard, the wizard detects which prerequisite software is already installed on the machine and which software is missing. When you continue with the installation, all missing prerequisite software is installed.

The following prerequisite software must be installed:

- Microsoft Windows Installer 3.1
- Windows Imaging Component. This is a prerequisite for .NET Framework 4.0
- .NET Framework 4.6.2
- Microsoft Core XML Services (MSXML) 6.0
- Microsoft Visual C++ 2015 Redistributable Package - x86 and x64

Note:

- If Visual C++ 2017 Redistributable is already installed Visual C++ 2015 Redistributable will not be installed. Visual C++ 2017 Redistributable should be compatible in most cases. For more details, see the [Microsoft documentation](#).
 - If installation of Visual C++ 2015 Redistributable Update 3 fails, install [KB2999226](#) manually.
- Microsoft Data Access Components (MDAC) 2.8 SP1 (or later)

Manual installation for Windows updates

Before installing any of the LoadRunner components, make sure that the full set of Windows updates has been installed. If this was not done automatically, you must install them manually.

Note: Before installing any of the Windows updates, disable UAC (User Account Control) and restart the computer. For details on how to disable UAC, see the [Microsoft Windows documentation](#).

You can find the list of Windows updates in the [System Requirements](#).

Installation Notes and Limitations

Note: See the LoadRunner Readme for additional notes and limitations.

Security review	We strongly recommend that you install LoadRunner components on dedicated machines that do not contain, or provide access to, sensitive information; and that you do a thorough security review of the network topology and access levels in your testing environment.
Permission requirements	The Installation process for VuGen, requires a full administrator account (root account for Linux systems) for all operating systems. After installation, VuGen can run under a standard user account (an administrator account is not required), with UAC and DEP enabled.

Virtual environments	<p>The architectures provided by virtualization vendors are rapidly evolving. VuGen is expected to function as designed in these changing environments, as long as the third-party vendor guarantees full compatibility of the virtualized environment with the VuGen-approved hardware requirements. If you follow system requirements and support matrix to create the virtual machine, VuGen will work correctly.</p> <p>Working on top of a virtual machine may require access to the virtualization server hardware/monitoring environment, to ensure the virtualization server is not saturated; otherwise, this might obscure the virtual machine's measurements and lead to false results.</p>
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Installing VuGen

This chapter describes how to install VuGen on a Windows platform.

This chapter includes:

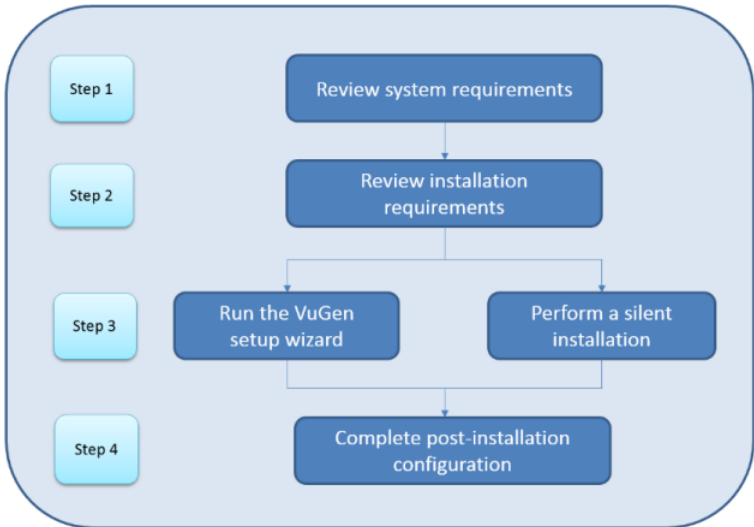
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Installation Workflow

Your VuGen installation package includes a setup wizard that guides you through the process of installing VuGen.

The final stage of the installation includes the optional installation of Network Virtualization. Installing Network Virtualization enables you to generate the NV Insights report (replaces the NV Analytics report) from LoadRunner. The NV Insights report provides an in-depth analysis of how your application performs with different loads over various types of networks (virtual locations) and includes suggestions for optimizing your application's performance.

Installing VuGen on a Windows system involves the steps shown below:



1. Review system requirements

Before you install VuGen, make sure that your system meets the hardware and software requirements. For details, see "[System Requirements](#)" on page 7.

Prerequisite software: When you run the VuGen installation wizard, the wizard detects

which prerequisite software is already installed on the machine and which software is missing. When you continue with the installation, all missing prerequisite software is installed. For details, see ["Prerequisite Software for Installation on Windows" on page 7](#).

2. Review installation requirements

Before you begin the installation, make sure you meet the following installation requirements:

- You must have full local administrative rights on the designated machine.
- Installation must be performed at the destination machine. VuGen does not support installation via terminal service.
- For the full list of components that can be installed on the same physical machine at the same time, see the [System Requirements](#).

Note: It is recommended that you close all anti-virus applications, such as McAfee or Aladdin's eSafe, before installing VuGen.

3. Perform the installation

- a. If you were working with a previous version of VuGen, review the upgrade instructions. For details, see ["Upgrade to VuGen 12.61" below](#).
- b. Run the setup wizard to install VuGen on a Windows system. For details, see ["Install VuGen" on the next page](#).
Then run any patch installations if necessary.
To perform a silent installation, see ["Install VuGen Silently" on page 14](#).
- c. After you complete the VuGen installation, you can install a localized version to view the VuGen user interface in your local language. For details, see ["Install a VuGen Language Pack" on page 17](#).

Upgrade to VuGen 12.61

VuGen 12.61 is a patch installed over 12.60.

- **Upgrading from version 12.60:** Run the patch installation file provided with the installation package. Follow the onscreen installation and deployment instructions.
The 12.61 Patch Readme (supplied with the installation package) details which components require installation of the 12.61 patch.
- **Upgrading from a version earlier than 12.60:** Install VuGen 12.60 as described in ["Install VuGen" on the next page](#). The installation process detects the older version, and gives you the option to upgrade or exit the installation.
Then install the 12.61 patch, as described above.

Note:

- When upgrading from version 12.55 or earlier, if you used custom certificates in your previous installation of VuGen, install them again when prompted for certificates during setup. Otherwise, the setup program will overwrite them using the defaults.
- Due to changes in LoadRunner licensing in version 12.60, you need to replace your current license to enable working with the upgraded LoadRunner. To obtain and install a new license, see [Install LoadRunner Licenses](#) in the LoadRunner Help Center.
- For the silent upgrade, see "[Install VuGen Silently](#)" on page 14.

Install VuGen

This section describes how to install VuGen using the setup wizard.

For details on how to perform a silent installation, see "[Install VuGen Silently](#)" on page 14.

To install VuGen:

1. Before installing:
 - Review the pre-installation information, including the system requirements and prerequisite software, described in "[System Requirements](#)" on page 7.
 - If you plan to install Network Virtualization, make sure that your system meets the requirements, as described in the [Network Virtualization for LoadRunner and Performance Center Help](#) (select the relevant version), or in the NV installation guide which can be downloaded from the **\Additional Components\Network Virtualization** folder of your LoadRunner installation package.
 - Make sure you have full, local administrative rights on the designated machine.
 - Make sure the Windows Update process is not running.
2. Perform the following on the installation machine:
 - Uninstall any previous Shunra version.
 - Disable UAC (User Account Control) - for details, refer to your Microsoft Windows documentation.

Then reboot the machine. (Installation may fail if this is not done.)

3. To prevent DEP (Data Execution Prevention) from interfering with the installation, enable it for essential Windows programs and services only.

For details on how to change DEP settings, refer to your Microsoft Windows documentation.

4. Run the **setup.exe** file in the root folder of the installation package.

The LoadRunner installation program begins and displays the installation options.

5. Select the required installation option.

From the installation menu page, select one of the following installation options:

- **VuGen.** Installs a standalone version of VuGen (includes TruClient).
- **Language Packs.** This option is available only when installing on native non-English operating

systems. Enables you to install a patch for localized LoadRunner user interface, on top of the English version. For details, see "[Install a VuGen Language Pack](#)" on page 17.

- **Additional Components.** Opens the Additional Components folder located in the root folder of the installation package. For details of the additional components that you can install, see the **Advanced > Additional Components** section in the [Virtual User Generator Help Center](#) (select the relevant version).
6. Specific software, for example, Microsoft Visual C++, needs to be installed before you can install VuGen. If the prerequisite software is not already installed on your computer, a dialog box opens displaying the list of prerequisite programs that are required.

Click **OK** to install the listed software before continuing with the VuGen installation. If you click **Cancel**, the VuGen setup wizard exits because VuGen cannot be installed without the prerequisite software.

Note: For the full list of prerequisite software, see "[Prerequisite Software for Installation on Windows](#)" on page 7.

7. Perform the installation.

The VuGen Setup Wizard opens, displaying the Welcome page.

Follow the instructions in the wizard to complete the installation.

Note: The installation path cannot contain non-English characters.

8. After the installation is complete, you can choose to install Network Virtualization (NV).

In the setup wizard, select:

- **Typical mode** for an automatic installation of the NV for Load Generator and VuGen component.
- **Custom mode** to change the installation folder, data folder, and the port.

For more details, see the installation section of the [Network Virtualization for LoadRunner and Performance Center Help](#) (select the relevant version), or see the NV installation guide which can be downloaded from the **\Additional Components\Network Virtualization** folder of your LoadRunner installation package.

9. If there is a patch:

- a. Run the patch installation file provided with the installation package.
- b. Follow the onscreen installation and deployment instructions.

Note:

- To repair the installation, run the **setup.exe** file located in the root directory of the LoadRunner installation package, select **VuGen**, and then select the **Repair** option in the setup wizard.

- For a list of the components that were registered during setup, such as **DLL** and **OCX** files, see the **RegisteredComponents_Micro Focus Virtual User Generator.txt** file in the **build_info** folder of the installation.

Install VuGen Silently

A *silent installation* is an installation that is performed without the need for user interaction. You use the command line to run the setup files. For details, see ["Installation Command Line Options" below](#).

Note:

- Before you install VuGen, review the pre-installation information, including the system requirements and prerequisite software, described in ["System Requirements" on page 7](#).
- All machines on which you install VuGen require administrator privileges.
- Use standard MSI command line options to define installation properties. For example, use `INSTALLDIR` to specify an alternate installation folder.

To perform a silent installation of VuGen

1. Run one of the following commands from the command line:
 - To install VuGen:

```
<Installation_disk>\Standalone Applications\SetupVuGen.exe /s /a /s
```

- To install additional components:

```
<Installation_disk>\Additional Components\<setup_file_path> /s /a /s
```

2. If you are installing an [upgrade](#), run the following command:

```
msiexec.exe /update <full path to msp file> [/qn] [/l*v <full path to log file>]
```

The msp files are located in the installation package.

Installation Command Line Options

You can use the Windows command line to install VuGen and Additional Components using the "Package for the Web" file (<PFTW>.exe).

Installing VuGen or an Additional Component from a PFTW file

You can install VuGen or one of the additional components, via the PFTW (Package for the Web) files that are included with the LoadRunner installation media. The installation files are located under the **Standalone Applications** or **Additional Components** folders on the installation media. You can double-click on the packaged file or run it from the command line, using the following options:

Option	Description
/s	Runs the installation in the background (silently), with no user interaction.
/e	Only extracts the installation files; does not run them.
/f	Specifies the path of a temporary folder for file extraction. For example: /f "c:\my_temp_folder" If you leave out this option, the default temporary folder is used.

Option	Description
/a	<p>Allows you to pass parameters or properties to the autorun file, such as SetupVuGen.exe.</p> <p>The following properties are available:</p> <p>INSTALLDIR="your_path". Specifies the location where the application will be installed.</p> <p>REBOOT_IF_NEED. Default: 0</p> <p>1: Reboots the machine after installation, if required. This is recommended if you include the installation of NV (Network Virtualization).</p> <p>0: Does not reboot the machine after installation.</p> <p>NVINSTALL Default: 1</p> <p>Empty string: Excludes the installation of the NV component.</p> <p>1: Includes the installation of the NV component.</p> <p>INSTALL_NV_MODE. Default: 1</p> <p>1: Sets the NV installation mode to Typical.</p> <p>2: Sets the NV installation mode to Custom.</p> <p>INSTALL_DIR="your_path". Specifies a path for the installation.</p> <p>START_LGA. Default: 1</p> <p>Empty string: Instructs the machine not to start the Load Generator after installation.</p> <p>1: Instructs the machine to start the Load Generator after installation.</p> <p>IS_RUNAS_SERVICE. Default: 1</p> <p>0: Runs the Load Generator's agent as a process.</p> <p>1: Runs the Load Generator's agent as a service.</p> <p>IMPROVEMENTPROGRAM. Default: 1</p> <p>0: Disables the VuGen Improvement Program.</p> <p>1: Enables the VuGen Improvement Program.</p> <p>Example: The following command performs the installation silently and then reboots the machine if necessary:</p> <div data-bbox="326 1688 1409 1751" style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"><pre>DVD\Standalone Applications\SetupVuGen.exe /s REBOOT_IF_NEED="1"</pre></div>

Example: The following command silently runs a VuGen setup, installs the application in a specified folder, and starts the Load Generator agent after the installation:


```
SetupVuGen.exe /s /a INSTALLDIR="c:\Micro Focus\VuGen_SA"
```

Install a VuGen Language Pack

The language packs enable you to view the VuGen user interface in your local language. You install the language pack from the LoadRunner installation package.

For a list of supported languages, see the [System Requirements](#).

The language packs are supported for native non-English operating systems only.

Important: The native language of the operating system must be the same as the language pack you are installing. For example, the Spanish language pack must be installed on a machine with a native Spanish operating system.

To install a language pack:

1. Make sure that LoadRunner English is already installed.
2. In the root folder of the LoadRunner installation package, run **setup.exe**. The LoadRunner installation program begins and displays the installation options.
3. Click **Language Packs**. The Language Packs folder in the installation package opens.
4. Navigate to the folder for the language and component you want to install and run the installation file. For example, to install the French language pack on a VuGen standalone machine, the path is **..\Language Packs\French\VugenSA\Vugen_FRA.msp**. Follow the online instructions.

Send Us Feedback



Let us know how we can improve your experience with the Installation Guide.
Send your email to: docteam@microfocus.com