
Administrator's Guide

This document explains how the VTune(TM) Performance Analyzer for Linux* OS installation can affect your system.

Installation Overview

The program installs the VTune analyzer for Linux and the following components:

* VTune analyzer Driver Kit. This Driver Kit enables creating a driver for collecting sampling data. This software is necessary if the VTune analyzer does not have a pre-built driver available for your Linux kernel. During the installation process the driver kit is used to build a new driver.
* EntireX* package. This software is required by the VTune analyzer to emulate Win32* and DCOM on Linux operating system.
* VTune analyzer Remote Agent. This software is necessary if you want to collect data on a controlled system, and analyze and view the data collection from a controlling system that has the VTune analyzer installed.
* Eclipse* package. This package is required by the graphic user interface (GUI) version of the VTune analyzer.

The VTune analyzer installation requires root privileges.
See the Installation Guide, INSTALL.txt, for installation instructions and the directory map with the default structure of the VTune analyzer components and contents of each sub-directory.

Using the Non-interactive Install option to Install on Multiple Systems

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You can use the non-interactive install option to install the VTune analyzer on multiple systems in non-interactive mode, using settings that are defined in the non-interactive install configuration file.

To create a non-interactive install configuration file, run the interactive installation program with this option:

./install.sh --duplicate <full_path_to_file>

The --duplicate option creates a configuration file with the settings that you used during the interactive installation.

See an example of the non-interactive install configuration file in:
<install_dir>/data/vtune_silent_config.ini

After creating a non-interactive install configuration file, you can run the

non-interactive installation.

1. Log in as root
2. After the command prompt, enter
   ./install.sh --silent <full_path_to_file>
   [{--serialnumber <SN>, --licensepath <LP>}]

   Where:
   <full_path_to_file> is the path and name of the install configuration file that defines the installation settings.
   --serialnumber <SN> is the VTune analyzer serial number
   --licensepath <LP> is the full path to the license file for the VTune analyzer
   --serialnumber and --licensepath are mutually exclusive and optional. If any of these options is specified, it overrides the appropriate setting, if any, in the configuration file.

Examples:
./install.sh --silent /path/to/mysilentconfig.ini
Run the non-interactive installation using /path/to/mysilentconfig.ini configuration file.

./install.sh --silent /path/to/mysilentconfig.ini --serialnumber XXXX-YYYYYYYY
Runs silent installation using /path/to/mysilentconfig.ini configuration file and the serial number specifed in the command line.

./install.sh --silent /path/to/mysilentconfig.ini
--licensepath /path/to/mylicense.lic
Runs non-interactive installation using /path/to/mysilentconfig.ini configuration file and the license path specified in the command line.

Collecting Data on an Unsupported Operating System

If you want to collect data on an operating system that is not supported, install the VTune analyzer Remote Agent on it and collect data using the typical installation of the VTune analyzer on a controlling system.
See the product Release Notes for the information on the supported operating systems.

Installing on a System with an Unsupported Kernel

If you install the VTune analyzer for the first time and it does not have a pre-built driver available for your Linux kernel, the installation prompts you to build a driver.

See the Installation Guide, INSTALL.txt, Custom Installation section, for

information on the VTune Analyzer Driver Kit and instructions for building the drivers.

Security Considerations

The EntireX component of the installation program creates a new user and a user group and names them "vtunesag". The program starts as a daemon process with privileges of a sag user. Deleting the sag user account from the system account files disables the VTune analyzer functionality.

By default, the VTune analyzer uses port # 50000. Make sure to enable these ports when using the VTune analyzer Remote Agent. If you use a firewall, that disables these ports you need to set the Remote Agent to use different ports.

To set the VTune analyzer to use different ports, enter command at the command line on the vtserver:
-p <port number>

For example:
vtserver -p 50100

In this case, make sure to use ports that are enabled on your firewall.
Run vtserver -h to see the available switches and commands.
The vtserver location is: <installdir>/bin/vtserver

Support and Documentation

Free Technical Support

Contact Intel technical support through your Intel(R) Premier Support account and the related web site at https://premier.intel.com/.
If you can not register your product, or you can not access your account, complete the form available at https://registrationcenter.intel.com/support/ to submit a technical support request.

Release Information

Refer to the Release Notes and license agreements available at <installdir>/Release_Notes.htm.

Product Documentation

An HTML file with links or pointers to all product documentation for the VTune analyzer is available after product installation. To view the document, open this file using a browser: <installdir>/doc/Doc_Index.htm.

Getting Started

Once installation is complete, you can gain a quick understanding of
product operation by executing the procedures in the Getting Started
with the VTune(TM) Performance Analyzer for Linux* document. This document
is available at <installdir>/doc/Getting_Started.pdf.

Other Intel Products

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