Intel® Software Guard Extensions Platform Software for Linux® OS
Release Notes

Installation Guide and Release Notes- 1.5 Open Source Beta (SVN. 32783)
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1 Introduction

This document provides system requirements, installation instructions, limitations and legal information for Intel® Software Guard Extensions (Intel® SGX) Platform Software (PSW).

Product Contents

Intel® Software Guard Extensions PSW package includes:

- Intel® SGX driver for Ubuntu® 14.04 LTS 64-bit version (kernel version is 3.13.0-49-generic)
- Intel® SGX enclaves
- Intel® SGX Runtime System Library
- Intel® SGX Application Enclave Service (AESM)

2 What's New

Intel® Software Guard Extensions PSW changes include:
• Use the product version Intel® SGX enclaves

3 System Requirements

Hardware Requirements
• 6th Generation Intel® Core™ Processor (codenamed “Skylake”)

Firmware Requirements
• If the system is using an Intel reference BIOS, you need 6th Generation Intel® Core™ Processor (codenamed “Skylake”) BIOS RC 0.7 or newer.

Software Requirements
• Supported Linux* OS distributions:
  o Ubuntu* 14.04 LTS 64-bit version

Note:
Recommend to use the listed Linux* OS distributions. Other distributions are not supported.

4 Installation Notes
Before installing Intel® SGX PSW, Intel® SGX must be enabled in BIOS. For example, if the system is using an Intel reference BIOS, you may configure the BIOS options according to the following steps:

Go to Intel Advanced Menu -> CPU Configuration -> SW Guard Extensions (SGX). Set SW Guard Extensions (SGX) as Enabled.

  • You may need to configure Intel Advanced Menu -> CPU Configuration -> PRMRR. You can set it to 32MB, 64MB or 128MB. The default option is 128MB.

Note:
This step may only be applicable to Intel reference BIOS and may be not applicable to OEM BIOS.

To install the Intel® SGX driver and PSW, use the following steps:

1. To install the Intel® SGX driver in the default directory, enter the following command:

   ```
   sudo ./Intel(R)_SGX_Linux_x64_Driver_1.5.80.31650_pre-release.bin
   ```
2. To install the Intel® SGX PSW in the default directory, enter the following command. The platform software is installed at `/opt/intel/sgxpsw`

```
sudo ./Intel(R)_SGX_Linux_x64_PSW_1.5.80.31650_pre-release.bin
```

3. To uninstall the product, enter the following command:

```
sudo /opt/intel/sgxpsw/uninstall.sh
```

5 **Known Issues and Limitations**
- Intel® SGX for Linux* OS does not support power management.
- Intel® SGX platform service is unavailable

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