

Sentinel Cloud Fingerprint Management Utilities ReadMe

Introduction

Sentinel Cloud provides .NET utilities to demonstrate the use of the getInfo API and EMS Web services for performing fingerprint management functions. The available utilities are:

- **Fingerprint Extraction:** It extracts the fingerprint of an on-premise machine. It is specifically useful for obtaining fingerprints of machines running in isolated networks.
- **Fingerprint Management:** It helps to obtain, register, deregister, and retrieve fingerprints of on-premise machines. This utility is supported only for Entitlement Level feature caching mode.

This document explains prerequisites and steps for using these utilities.

Prerequisites

This section lists the requirements for using .NET fingerprint utilities:

Operating System and Compiler

- Windows (32-bit and 64-bit)
- Microsoft Visual Studio



These utilities have been created in Microsoft Visual Studio 2005.

Run-time SDK

Run-time SDK must be installed on system where you want to use the utilities. Here is a brief of the installed items required for compiling and running utility packages. For more information, see *Installation Guide*.

Directory	Contents
Configurations	Stores the client configuration file, <i>SentinelCloudRuntime.properties</i> , which contains configuration settings for executing Run-time APIs.
RunTimes/Dot NET SDK	Contains the required libraries.
Redistributables	Contains <i>haspdinst.exe</i> which need to be installed for on-premise deployments.
Samples/Utilities/DotNet	Contains .NET utilities for fingerprint extraction and management.

Entitlement Availability

For using the **Fingerprint Management** utility, ensure that an On-premise entitlement with feature caching mode as Entitlement Level has been created in EMS.

See *Quick Start Guide* for a quick overview on how to create entitlements in EMS.

Configuration Related Items

You will need the following items while configuring utilities. These items are provided to you in e-mails from SafeNet:

- **YPSAddress**: Address of the Cloud Directory Services.
- **ClientAlias**: This is usually the vendor name provided in the vendor registration request file.

In addition to the above, you will also need **CA certificate bundle** that refers to the certificate store that Run-time uses for server certificate verification. You can download it from <http://curl.haxx.se/ca/cacert.pem>.

Configure

Open the client configuration file and update the following properties:

Property	Example
YPSAddress	<code><add key="YPSAddress" value="https://yps-trial.sentinelcloud.com/YPServer" /></code>
DeploymentType	<code><add key="DeploymentType" value="OnPremise" /></code>
ClientAlias	<code><add key="ClientAlias" value="isv" /></code>
CABundle	<code><add key="CABundle" value=".\\cacert.pem" /></code>

Compile and Run

Each utility package contains a solution file (for example, *FingerprintExtraction.sln* and *FingerprintManagement.sln*). Open the solution file in Visual Studio, build it, and run it.

Using Utilities

This section provides few notes on how to use the utilities:

Fingerprint Extraction Tool

Click **Generate Fingerprint** to view the fingerprint in text box. You can click **Save Fingerprint** to save the fingerprint to a file.

Fingerprint EID Management Tool

This utility contains two tabs, **EMS Details** and **Fingerprint**, which are explained below.

EMS Details Tab

It helps in establishing connection to EMS. On this tab, perform the following:

- Specify EMS credentials:
 - EMS URL:** Specify the host name mapped to the EMS URL.
 - Login Id:** The user Id or e-mail Id of customer's contacts.
 - Password:** Password for the above login Id.
- Click **Connect** to establish connection with EMS.

If this utility is distributed to end customers, it is recommended to use credentials of customer's contacts for login.

Fingerprint Tab

On this tab, appropriate combinations of the following parameters will be required to perform fingerprint-related operations:

- **Entitlement ID:** Identifier of the entitlement as mentioned in Entitlement Certificate.
- **Friendly name:** A friendly name of the on-premise machine.
- **Custom Criteria:** Host name of the on-premise machine.

The options available are:

Option	Description
Generate Fingerprint	Obtains machine fingerprint. Select this option and then click Execute . The fingerprint will be displayed in text box. You can click Save Fingerprint to save the fingerprint to a file.
Register Fingerprint	Registers on-premise machines with an entitlement in Cloud Connect database. A machine can be registered with only one entitlement. Specify Entitlement ID , fingerprint, and Friendly name to use this option. Custom Criteria is optional. You can also load the fingerprint from a file by using the Load Fingerprint button.
DeRegister Fingerprint	Deletes the given machine fingerprint from associated entitlement IDs. Specify Entitlement ID and fingerprint to use this option. You can also load the fingerprint from a file by using the Load Fingerprint button.
DeRegister All	Deletes all the fingerprints associated to a given entitlement ID. Specify Entitlement ID to use this option.
Retrieve Fingerprints	Retrieves list of fingerprints for the given entitlement ID. Specify Entitlement ID to use this option.

Obtaining Support

If you encounter a problem while installing, registering or operating this product, please make sure that you have read the documentation. If you cannot resolve the issue, contact your supplier or SafeNet Customer Support. SafeNet Customer Support operates 24 hours a day, 7 days a week. Your level of access to this service is governed by the support plan arrangements made between SafeNet and your organization. Please consult this support plan for further information about your entitlements, including the hours when telephone support is available to you.

Contact Method	Contact Information	
Address	SafeNet, Inc. 4690 Millennium Drive Belcamp, Maryland 21017, USA	
Phone	US	1-800-545-6608
	International	1-410-931-7520
Technical Support Customer Portal	https://serviceportal.safenet-inc.com Existing customers with a Technical Support Customer Portal account can log in to manage incidents, get the latest software upgrades, and access the SafeNet Knowledge Base	

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Part Number 007-012600-001, Revision A

Software versions 3.5 and later

July 2014

