z/VM Hypervisor Proxy for ILMT Users Guide

Introduction

In order to enable z/VM Sub-Capacity pricing IBM has created a script to manage the configuration of a virtual machine that acts as a stand-in for the hypervisor for sub-capacity reporting. The IBM License Metric Tool (ILMT) Agent in this virtual machine will recognize the signature of the proxy and report its capacity to the ILMT Server. The associated reports that ILMT produces should be used to verify that the appropriate z/VM hypervisor capacity has been licensed.

The ILMT Agent and the z/VM Hypervisor Proxy for ILMT are both Linux programs. Familiarity with Linux and ILMT is a requirement for the use of this document.

Prerequisites

Prior to implementing the z/VM Hypervisor Proxy, ILMT must be ordered and installed.

- See the IBM License Metric Tool Information page for more information.

Materials

In addition to this Users Guide document, the z/VM Hypervisor Proxy package is available for downloading from the z/VM Sub-Capacity page.

The **z/VM Hypervisor Proxy for ILMT** is provided in tarball format as a downloadable file named **zvmproxy-1.0.2.tar.gz**. A tarball is a set of Linux files bundled together using the **tar** command and compressed using the **gzip** command.

The contents of the downloaded tarball are:

File Identifier	**Description**
ilmt-config-sync.sh	Configuration management script
ibm.com_zVM_proxy_for_ILMT-1.0.2.swidtag	Software tag for z/VM Hypervisor Proxy
licenses_zVM_proxy_for_ILMT-1.0.2.tar	Licenses for z/VM Hypervisor Proxy

z/VM Hypervisor Proxy Implementation Procedure

1. Create a new z/VM guest with 64 virtual CPUs.
2. Install one of the following Linux distributions in the guest: RHEL or SLES.
    - See the ILMT Information page for supported Linux environments.
3. Install the ILMT Agent in the guest.
4. Download the ***zvmproxy-1.0.2.tar.gz*** file and untar it to the directory of your choice.
5. Untar the ***licenses_zVM_proxy_for_ILMT-1.0.2.tar*** file to the guest's ***/root/licenses/*** directory.
6. Copy the ***ibm.com_zVM_proxy_for_ILMT-1.0.2.swidtag*** file to the guest's ***/root/swidtag/*** directory.
7. Copy the ***ilmt-config-sync.sh*** file to the guest's ***/usr/local/bin*** directory.
8. Issue ***chmod 755*** against the ***ilmt-config-sync.sh*** file.
9. Issue ***/usr/local/bin/ilmt-config-sync.sh*** to execute the script.

Support

If you encounter problems with or have questions about this procedure, please e-mail Z Hypervisor Proxy Support and include any logs or other information relevant to describing your problem.

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Interpreting ILMT Reports for z/VM using the z/VM Hypervisor Proxy

The capacity associated with the z/VM Hypervisor Proxy is reported by ILMT using Processor Value Units (PVUs) on the “All IBM Metrics” page because ILMT is ordinarily used for reporting on Passport Advantage software, and the PVU is the license metric used for Passport Advantage Sub-Capacity Pricing. However, z/VM is licensed using engine-based Value Units, not PVUs. Also, the Passport Advantage term “core” is the same as an engine when referring to CPs and IFLs.

To determine the number of engines required to be licensed for z/VM under Sub-Capacity Pricing rules, click the “z/VM proxy for ILMT” link in the ILMT Report on the row with “PVU Subcapacity” in the License Type column. On that page you will see a column labeled “CPU Core Subcapacity Limit” and this represents the number of IBM Z engines configured for the use of z/VM.