Management Information Base for Virtual Machines Controlled by a Hypervisor
<draft-asai-vmm-mib-05>

OPSA WG, IETF 88
Nov. 5, 2013
VM-MIB

• Defines MIB objects related to virtual machines controlled by a hypervisor
  – Objects
    • Hypervisor software information
    • Virtual machine list (info, config and stats)
    • Virtual resources (info, config, and stats)
      – Virtual CPU, Virtual memory, Virtual storage, Virtual network interface
  – Viewpoint: Hypervisor (for hypervisor operators)
Summary of Changes from -04

• Comments on the mailing list
  – Joe-1: Limited to only VMware, Xen, and KVM?
    • Clarified the MIB module not only for VMware, Xen, and KVM
  – Joe-2: Management address of each virtual machine
    • Describe to use ENTITY-MIB, but not modified the MIB definition
  – Joe-3: Write access to persistent configuration
    • Added “Changes to these objects MUST NOT persist.”
    • vmAutoStart: read-write $\rightarrow$ read-only
    • vmCur*: read-only $\rightarrow$ read-write
  – Joe-5: Network portion of hypervisor, e.g., virtual switch
    • Added a case example of using BRIDGE-MIB [RFC4188] and Q-BRIDGE-MIB [RFC4363]
Summary of Changes from -04

– Joe-7/Keiichi: Missing transient state notifications
  • Added shuttingDown, resuming, suspending, migrating, blocked to notifications

– Other-1: Incorrect tense of VirtualMachineAutoStart
  • Fixed the tense

– Other-2: Unclear description of VirtualMachineOperState
  • Polish the description
History of this draft

- 2012.03
  - draft-schoenw-opsawg-vm-mib-00
  - An implementation† with libvirt
- 2012.07
  - draft-schoenw-opsawg-vm-mib-01
  - draft-asai-vmm-mib-00 based on the implementation†
- 2012.10
  - draft-asai-vmm-mib-01 (comments from the list)
- 2013.02
  - Joint proposal: draft-asai-vmm-mib-02
    - Merge draft-asai-vmm-mib-01 and draft-schoenw-opsawg-vm-mib-01
  - Presented it at IETF86
- 2013.04
  - Published draft-asai-vmm-mib-03 subjected to comments at IETF86
- 2013.07
  - Presented draft-asai-vmm-mib-04 at IETF87 and discussed on the mailing list
- 2013.10
  - Call for WG adoption (after submission of draft-asai-vmm-mib-05)
Current status: Call for adoption
Deadline: Wednesday, 13 November

(If adopted; submit this I-D as <draft-ietf-opsawg-vm-mib-00>