

Management Information Base for Virtual Machines Controlled by a Hypervisor

<draft-asai-vmm-mib-05>

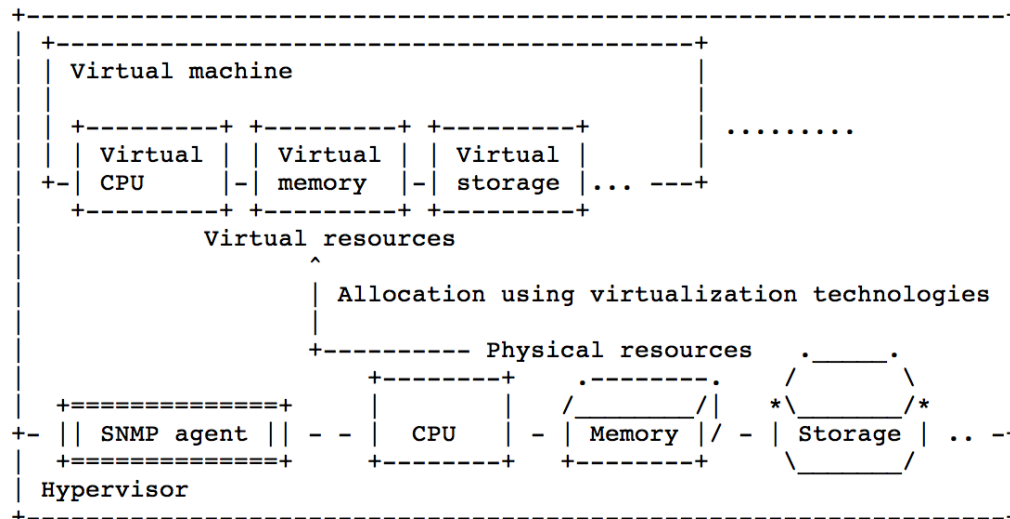
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OPSA WG, IETF 88

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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 → read-only
 - vmCur*: read-only → 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>)