

1 VMware monitoring item keys

Item keys

The table provides details on the simple checks that can be used to monitor [VMware environments](#).

Key			
Description	Return value	Parameters	Comments
vmware.cluster.discovery[<url>]			
Discovery of VMware clusters.	JSON object	url - VMware service URL	
vmware.cluster.status[<url>, <name>]			
VMware cluster status.	Integer: 0 - gray; 1 - green; 2 - yellow; 3 - red	url - VMware service URL name - VMware cluster name	
vmware.eventlog[<url>]			
VMware event log.	Log	url - VMware service URL	
vmware.fullname[<url>]			
VMware service full name.	String	url - VMware service URL	
vmware.hv.cluster.name[<url>, <uuid>]			
VMware hypervisor cluster name.	String	url - VMware service URL uuid - VMware hypervisor host name	
vmware.hv.cpu.usage[<url>, <uuid>]			
VMware hypervisor processor usage (Hz).	Integer	url - VMware service URL uuid - VMware hypervisor host name	
vmware.hv.datastore.discovery[<url>, <uuid>]			
Discovery of VMware hypervisor datastores.	JSON object	url - VMware service URL uuid - VMware hypervisor host name	
vmware.hv.datastore.read[<url>, <uuid>, <datastore>, <mode>]			
Average amount of time for a read operation from the datastore (milliseconds).	Integer ²	url - VMware service URL uuid - VMware hypervisor host name datastore - datastore name mode - latency (default)	
vmware.hv.datastore.size[<url>, <uuid>, <datastore>, <mode>]			
VMware datastore space in bytes or in percentage from total.	Integer - for bytes Float - for percentage	url - VMware service URL uuid - VMware hypervisor host name datastore - datastore name mode - possible values: total (default), free, pfree (free, percentage), uncommitted	Available since Zabbix version 3.0.6
vmware.hv.datastore.write[<url>, <uuid>, <datastore>, <mode>]			

Key			
Description	Return value	Parameters	Comments
Average amount of time for a write operation to the datastore (milliseconds).	Integer ²	url - VMware service URL uuid - VMware hypervisor host name datastore - datastore name mode - latency (default)	
vmware.hv.discovery[<url>]			
Discovery of VMware hypervisors.	JSON object	url - VMware service URL	
vmware.hv.fullname[<url>,<uuid>]			
VMware hypervisor name.	String	url - VMware service URL uuid - VMware hypervisor host name	
vmware.hv.hw.cpu.freq[<url>,<uuid>]			
VMware hypervisor processor frequency (Hz).	Integer	url - VMware service URL uuid - VMware hypervisor host name	
vmware.hv.hw.cpu.model[<url>,<uuid>]			
VMware hypervisor processor model.	String	url - VMware service URL uuid - VMware hypervisor host name	
vmware.hv.hw.cpu.num[<url>,<uuid>]			
Number of processor cores on VMware hypervisor.	Integer	url - VMware service URL uuid - VMware hypervisor host name	
vmware.hv.hw.cpu.threads[<url>,<uuid>]			
Number of processor threads on VMware hypervisor.	Integer	url - VMware service URL uuid - VMware hypervisor host name	
vmware.hv.hw.memory[<url>,<uuid>]			
VMware hypervisor total memory size (bytes).	Integer	url - VMware service URL uuid - VMware hypervisor host name	
vmware.hv.hw.model[<url>,<uuid>]			
VMware hypervisor model.	String	url - VMware service URL uuid - VMware hypervisor host name	
vmware.hv.hw.uuid[<url>,<uuid>]			
VMware hypervisor BIOS UUID.	String	url - VMware service URL uuid - VMware hypervisor host name	
vmware.hv.hw.vendor[<url>,<uuid>]			
VMware hypervisor vendor name.	String	url - VMware service URL uuid - VMware hypervisor host name	
vmware.hv.memory.size.ballooned[<url>,<uuid>]			

Key			
Description	Return value	Parameters	Comments
VMware hypervisor ballooned memory size (bytes).	Integer	url - VMware service URL uuid - VMware hypervisor host name	
vmware.hv.memory.used[<url>,<uuid>]			
VMware hypervisor used memory size (bytes).	Integer	url - VMware service URL uuid - VMware hypervisor host name	
vmware.hv.network.in[<url>,<uuid>,<mode>]			
VMware hypervisor network input statistics (bytes per second).	Integer ²	url - VMware service URL uuid - VMware hypervisor host name mode - bps (default)	
vmware.hv.network.out[<url>,<uuid>,<mode>]			
VMware hypervisor network output statistics (bytes per second).	Integer ²	url - VMware service URL uuid - VMware hypervisor host name mode - bps (default)	
vmware.hv.perfcounter[<url>,<uuid>,<path>,<instance>]			
VMware hypervisor performance counter value.	Integer ²	url - VMware service URL uuid - VMware hypervisor host name path - performance counter path ¹ instance - performance counter instance. Use empty instance for aggregate values (default)	Available since Zabbix versions 2.2.9, 2.4.4
vmware.hv.sensor.health.state[<url>,<uuid>]			
VMware hypervisor health state rollup sensor.	Integer: 0 - gray; 1 - green; 2 - yellow; 3 - red	url - VMware service URL uuid - VMware hypervisor host name	Available since Zabbix 3.0.6
vmware.hv.status[<url>,<uuid>]			
VMware hypervisor status.	Integer: 0 - gray; 1 - green; 2 - yellow; 3 - red	url - VMware service URL uuid - VMware hypervisor host name	Uses health state rollup sensor before Zabbix 3.0.6 and host system overall status property since Zabbix 3.0.6
vmware.hv.uptime[<url>,<uuid>]			
VMware hypervisor uptime (seconds).	Integer	url - VMware service URL uuid - VMware hypervisor host name	
vmware.hv.version[<url>,<uuid>]			

Key			
Description	Return value	Parameters	Comments
VMware hypervisor version.	String	url - VMware service URL uuid - VMware hypervisor host name	
vmware.hv.vm.num[<url>,<uuid>]			
Number of virtual machines on VMware hypervisor.	Integer	url - VMware service URL uuid - VMware hypervisor host name	
vmware.version[<url>]			
VMware service version.	String	url - VMware service URL	
vmware.vm.cluster.name[<url>,<uuid>]			
VMware virtual machine name.	String	url - VMware service URL uuid - VMware virtual machine host name	
vmware.vm.cpu.num[<url>,<uuid>]			
Number of processors on VMware virtual machine.	Integer	url - VMware service URL uuid - VMware virtual machine host name	
vmware.vm.cpu.ready[<url>,<uuid>]			
Time (in milliseconds) that the virtual machine was ready, but could not get scheduled to run on the physical CPU. CPU ready time is dependent on the number of virtual machines on the host and their CPU loads (%).	Integer ²	url - VMware service URL uuid - VMware virtual machine host name	Available since Zabbix version 3.0.0
vmware.vm.cpu.usage[<url>,<uuid>]			
VMware virtual machine processor usage (Hz).	Integer	url - VMware service URL uuid - VMware virtual machine host name	
vmware.vm.discovery[<url>]			
Discovery of VMware virtual machines.	JSON object	url - VMware service URL	
vmware.vm.hv.name[<url>,<uuid>]			
VMware virtual machine hypervisor name.	String	url - VMware service URL uuid - VMware virtual machine host name	
vmware.vm.memory.size[<url>,<uuid>]			
VMware virtual machine total memory size (bytes).	Integer	url - VMware service URL uuid - VMware virtual machine host name	
vmware.vm.memory.size.ballooned[<url>,<uuid>]			
VMware virtual machine ballooned memory size (bytes).	Integer	url - VMware service URL uuid - VMware virtual machine host name	

Key			
Description	Return value	Parameters	Comments
vmware.vm.memory.size.compressed[<url>,<uuid>]			
VMware virtual machine compressed memory size (bytes).	Integer	url - VMware service URL uuid - VMware virtual machine host name	
vmware.vm.memory.size.private[<url>,<uuid>]			
VMware virtual machine private memory size (bytes).	Integer	url - VMware service URL uuid - VMware virtual machine host name	
vmware.vm.memory.size.shared[<url>,<uuid>]			
VMware virtual machine shared memory size (bytes).	Integer	url - VMware service URL uuid - VMware virtual machine host name	
vmware.vm.memory.size.swapped[<url>,<uuid>]			
VMware virtual machine swapped memory size (bytes).	Integer	url - VMware service URL uuid - VMware virtual machine host name	
vmware.vm.memory.size.usage.guest[<url>,<uuid>]			
VMware virtual machine guest memory usage (bytes).	Integer	url - VMware service URL uuid - VMware virtual machine host name	
vmware.vm.memory.size.usage.host[<url>,<uuid>]			
VMware virtual machine host memory usage (bytes).	Integer	url - VMware service URL uuid - VMware virtual machine host name	
vmware.vm.net.if.discovery[<url>,<uuid>]			
Discovery of VMware virtual machine network interfaces.	JSON object	url - VMware service URL uuid - VMware virtual machine host name	
vmware.vm.net.if.in[<url>,<uuid>,<instance>,<mode>]			
VMware virtual machine network interface input statistics (bytes/packets per second).	Integer ²	url - VMware service URL uuid - VMware virtual machine host name instance - network interface instance mode - bps (default)/pps - bytes/packets per second	
vmware.vm.net.if.out[<url>,<uuid>,<instance>,<mode>]			
VMware virtual machine network interface output statistics (bytes/packets per second).	Integer ²	url - VMware service URL uuid - VMware virtual machine host name instance - network interface instance mode - bps (default)/pps - bytes/packets per second	
vmware.vm.perfcounter[<url>,<uuid>,<path>,<instance>]			

Key			
Description	Return value	Parameters	Comments
VMware virtual machine performance counter value.	Integer ²	url - VMware service URL uuid - VMware virtual machine host name path - performance counter path ¹ instance - performance counter instance. Use empty instance for aggregate values (default)	Available since Zabbix versions 2.2.9, 2.4.4
vmware.vm.powerstate[<url>,<uuid>]			
VMware virtual machine power state.	Integer: 0 - poweredOff; 1 - poweredOn; 2 - suspended	url - VMware service URL uuid - VMware virtual machine host name	
vmware.vm.storage.committed[<url>,<uuid>]			
VMware virtual machine committed storage space (bytes).	Integer	url - VMware service URL uuid - VMware virtual machine host name	
vmware.vm.storage.uncommitted[<url>,<uuid>]			
VMware virtual machine uncommitted storage space (bytes).	Integer	url - VMware service URL uuid - VMware virtual machine host name	
vmware.vm.storage.unshared[<url>,<uuid>]			
VMware virtual machine unshared storage space (bytes).	Integer	url - VMware service URL uuid - VMware virtual machine host name	
vmware.vm.uptime[<url>,<uuid>]			
VMware virtual machine uptime (seconds).	Integer	url - VMware service URL uuid - VMware virtual machine host name	
vmware.vm.vfs.dev.discovery[<url>,<uuid>]			
Discovery of VMware virtual machine disk devices.	JSON object	url - VMware service URL uuid - VMware virtual machine host name	
vmware.vm.vfs.dev.read[<url>,<uuid>,<instance>,<mode>]			
VMware virtual machine disk device read statistics (bytes/operations per second).	Integer ²	url - VMware service URL uuid - VMware virtual machine host name instance - disk device instance mode - bps (default)/ops - bytes/operations per second	
vmware.vm.vfs.dev.write[<url>,<uuid>,<instance>,<mode>]			
VMware virtual machine disk device write statistics (bytes/operations per second).	Integer ²	url - VMware service URL uuid - VMware virtual machine host name instance - disk device instance mode - bps (default)/ops - bytes/operations per second	

Key			
Description	Return value	Parameters	Comments
vmware.vm.vfs.fs.discovery[<url>,<uuid>]			
Discovery of VMware virtual machine file systems.	JSON object	url - VMware service URL uuid - VMware virtual machine host name	VMware Tools must be installed on the guest virtual machine.
vmware.vm.vfs.fs.size[<url>,<uuid>,<fsname>,<mode>]			
VMware virtual machine file system statistics (bytes/percentages).	Integer	url - VMware service URL uuid - VMware virtual machine host name fsname - file system name mode - total/free/used/pfree/pused	VMware Tools must be installed on the guest virtual machine.

Footnotes

¹ The VMware performance counter path has the `group/counter[rollup]` format where:

- `group` - the performance counter group, for example `cpu`
- `counter` - the performance counter name, for example `usagemhz`
- `rollup` - the performance counter rollup type, for example `average`

So the above example would give the following counter path: `cpu/usagemhz[average]`

The performance counter group descriptions, counter names and rollup types can be found in [VMware documentation](#).

² The value of these items is obtained from VMware performance counters and the `VMwarePerfFrequency` [parameter](#) is used to refresh their data in Zabbix VMware cache:

- `vmware.hv.datastore.read`
- `vmware.hv.datastore.write`
- `vmware.hv.network.in`
- `vmware.hv.network.out`
- `vmware.hv.perfcounter`
- `vmware.vm.cpu.ready`
- `vmware.vm.net.if.in`
- `vmware.vm.net.if.out`
- `vmware.vm.perfcounter`
- `vmware.vm.vfs.dev.read`
- `vmware.vm.vfs.dev.write`

More info

See [Virtual machine monitoring](#) for detailed information how to configure Zabbix to monitor VMware environments.

From:
<https://www.zabbix.com/documentation/3.0/> - **Zabbix Documentation 3.0**

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Last update: **2018/02/21 13:14**

