

LogicVein

Network Configuration and Change Management

Agent-D



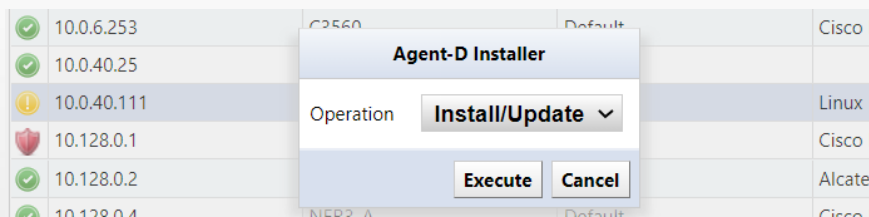
Introduction – What is Agent-D?

➤ Agent-D is an agent installed on either Linux or Windows servers that runs in the background of the server. It can perform monitoring functions, collect metrics and send alerts/traps on the below functions.

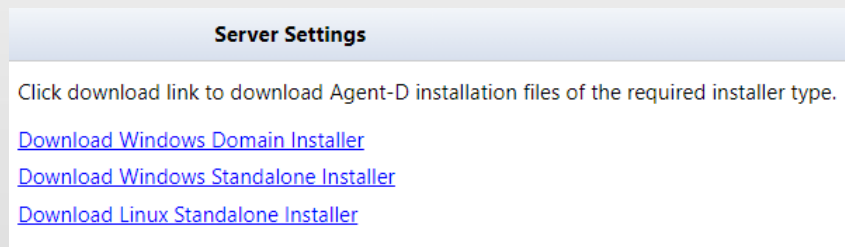
- CPU
- Disk
- Memory
- Process
- Syslog monitoring

How it works

- Agent-D can be installed two different ways
 - From ThirdEye – right click on server, select Agent-D



- Download from ThirdEye and install on server



How it works

Linux Memory Stats Period: 1 min History: 3 months

Collects system memory metrics.

Output Fields *Select fields to monitor*

Name	Type
<input checked="" type="checkbox"/> active	integer
<input checked="" type="checkbox"/> available	integer
<input checked="" type="checkbox"/> buffered	integer
<input type="checkbox"/> cached	integer
<input checked="" type="checkbox"/> free	integer
<input type="checkbox"/> inactive	integer

Triggers *Set up alerts/traps to monitor*

Time Window Trigger

Conditional: available_percent < 90

Alert Policy: Simple Incident Policy Severity: Warning

Time window: 5 min Count: 3

Message: Node `node` is in violation of memory percent condition, `count` times within `window`

- Add the appropriate templates to the device from the template library
- Configure what you want to monitor
 - How often to pull data
 - Fields/metrics to monitor
 - Setup any alerts/traps to notify when there are issues


Device Monitor

sales-linux - 10.0.40.111 actions... icmp ssh agent-d

Monitors Violations Attachment Interfa


Detail

- ICMP Ping (Default) **icmp**
Period: 30s ICMP echo
- Linux CPU Stats (Linux) **agent-d**
Period: 1m Linux CPU metrics
- Linux Disk Stats (Linux) **agent-d**
Period: 1m Linux Disk metrics
- Linux Memory Stats **agent-d**
Period: 1m Linux Memory metrics
- Linux Memory Stats (Linux) **agent-d**
Period: 1m Linux Memory metrics
- Linux Process Stats **agent-d**
Period: 1m Linux Process metrics
- Linux Syslog Monitor (Linux) **agent-d**
Period: 1m Logs


Parameters to monitor are placed here

ICMP Ping

Round-trip Time: [0.52ms](#)
Packet Loss: [0%](#)

 **Each section shows metrics collected**

Linux CPU Stats

CPU	Usage User (%)	Usage System (%)	Usage Idle (%)	Usage Active (%)	Usage Nice (%)	Usage lowait (%)	Usage Irq (%)	Usage Softirq (%)	Usage Steal (%)	Usage Guest (%)	Usage Guest Nice...
cpu0	0.10	0.07	99.80	-	0	0	0.02	0.02	0	0	0
cpu1	0.09	0.09	99.59	-	0	0	0.12	0.10	0.02	0	0

Linux Disk Stats

Device	Free (B)	Total (B)	Used (B)	Used (%)
dm-0		28827955200	21047847936	7.15
sda1		786853888	1023303680	17.42

Linux Memory Stats

Active: [265482240](#)
Available: [1514258432](#)
Buffered: [3346432](#)
Free: [1361854464](#)
Total: [1904889856](#)
Used: [210321408](#)
Available (%): [79.49](#)
Used (%): [11.04](#)
Swap Free: [2218782720](#)
Swap Total: [2218782720](#)

Last Captured: 2021/04/02 12:00

➤ In the Device monitor section, you can visualize the parameters and settings.

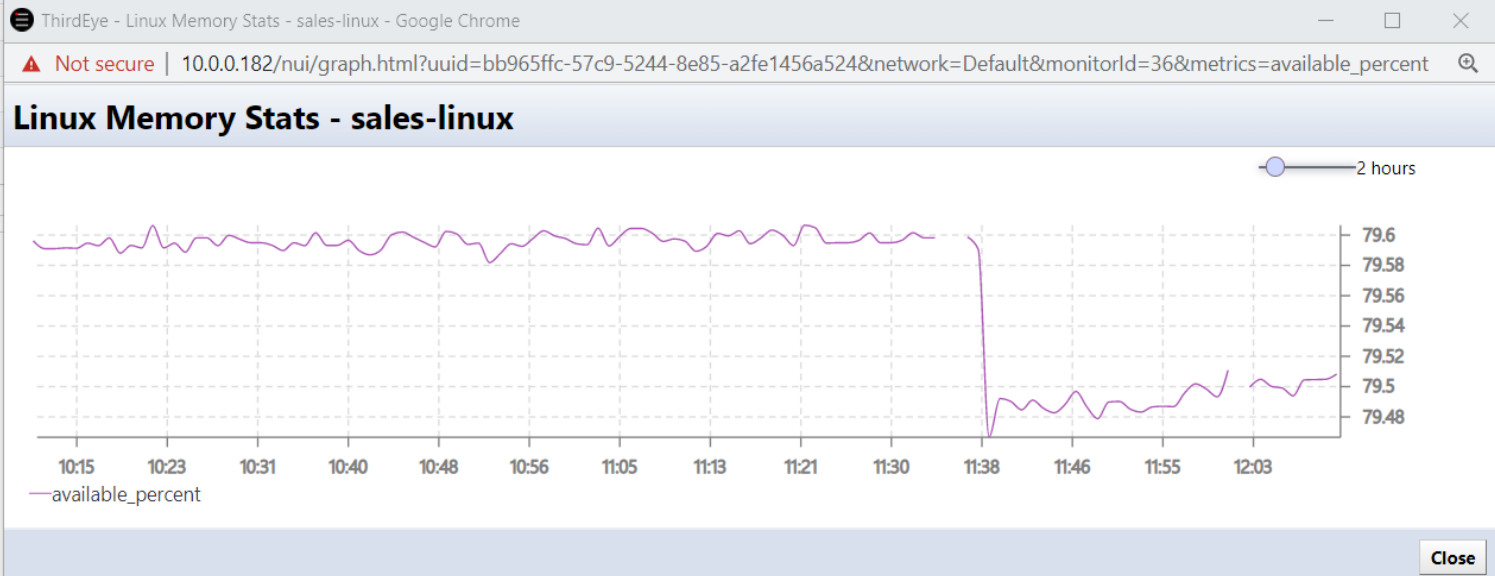
Device Monitor

Linux Disk Stats

Device	Free (B)	Total (B)	Used (B)	Used (%)
dm-0	28827955200		31047847936	2219892736
sda1				

Linux Memory Stats

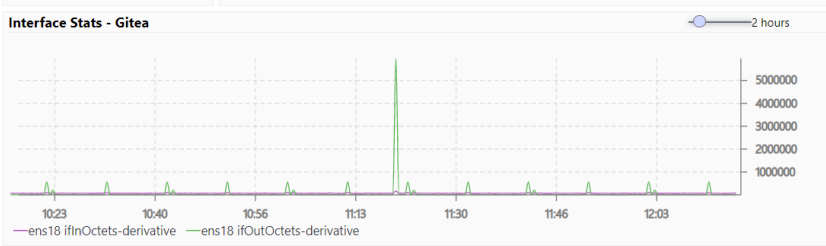
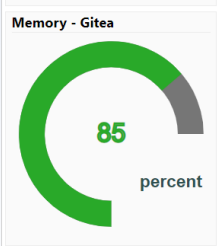
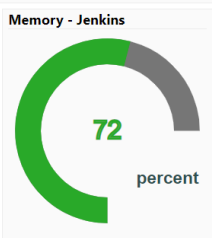
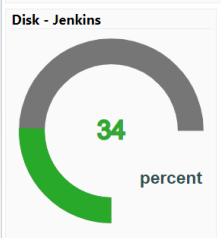
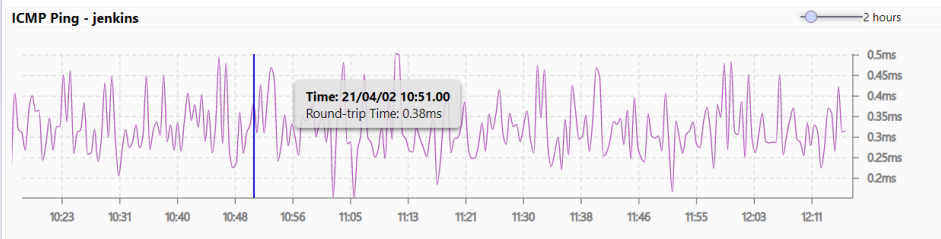
Active: [265367552](#)
Available: [1514545152](#)
Buffered: [3346432](#)
Free: [1361985536](#)
Total: [1904889856](#)
Used: [210190336](#)
Available (%): [79.51](#)
Used (%): [11.03](#)
Swap Free: [2218782720](#)
Swap Total: [2218782720](#)



- Clicking on any of the values, in any section, will popup a display that will graph that value. Display is configurable to show time from 1 hour up to 2 years

Build Infrastructure ▾

[schedule](#) [date](#) [export](#) [edit](#)



Incidents

IP Address	Hostname	Violation
10.0.40.111	sales-linux	Node sales-linux is in violation of memory stats trigger condition, 3 times within 5min

- Agent-D results can be displayed in the Dashboard, exported to a file, or downloaded via API.
- Additionally, any alerts/traps can also be displayed for monitoring purposes.

Agent-D metrics

CPU STATS
time_active
time_guest
time_guest_nice
time_idle
time_iowait
time_irq
time_nice
time_softirq
time_steal
time_system
time_user
usage_active
usage_guest
usage_guest_nice
usage_idle
usage_iowait
usage_irq
usage_nice
usage_softirq
usage_steal
usage_system
usage_user

DISK STATS
free
inodes_free
inodes_total
inodes_used
total
used
used_percent

MEMORY STATS	
active	mapped
available	page_tables
available_percent	shared
buffered	slab
cached	sreclaimable
commit_limit	sunreclaim
committed_as	swap_cached
dirty	swap_free
free	swap_total
high_free	total
high_total	used
huge_page_size	used_percent
huge_pages_free	vmalloc_chunk
huge_pages_total	vmalloc_total
inactive	vmalloc_used
low_free	wired
low_total	write_back
	write_back_tmp

PROCESS STATS	
child_major_faults	process_name
child_minor_faults	read_count
cpu_time	read_tytes
cpu_time_guest	realtime_priority
cpu_time_guest_nice	rlimit_cpu_time_hard
cpu_time_iowait	rlimit_cpu_time_soft
cpu_time_irq	rlimit_file_locks_soft
cpu_time_nice	rlimit_memory_data_hard
cpu_time_soft_irq	rlimit_memory_data_soft
cpu_time_steal	rlimit_memory_locked_hard
cpu_time_system	rlimit_memory_locked_soft
cpu_time_user	rlimit_memory_rss_hard
cpu_usage	rlimit_memory_rss_soft
cup_time_idle	rlimit_memory_stack_hard
involuntary_context_switches	rlimit_memory_stack_soft
major_faults	rlimit_memory_vms_hard
memory_data	rlimit_memory_vms_soft
memory_locked	rlimit_nice_prioity_soft
memory_rss	rlimit_nice_priority_hard
memory_stack	rlimit_num_fds_hard
memory_swap	rlimit_num_fds_soft
memory_usage	rlimit_realtime_priority_hard
memory_vms	rlimit_signals_pending_hard
minor_faults	rlimit_signals_pending_soft
nice_priority	signals_pending
num_fds	voluntary_context_switches
num_threads	write_bytes
	write_count