

Network Detect

The Network Detect plugin is a simple device/module/interface that pings "virtual devices" to see if they are alive. To enable the module, select under the Interfaces menu "Network Detect":

From DomotiGa 1.0.020 this plugin also supports arp-scan.

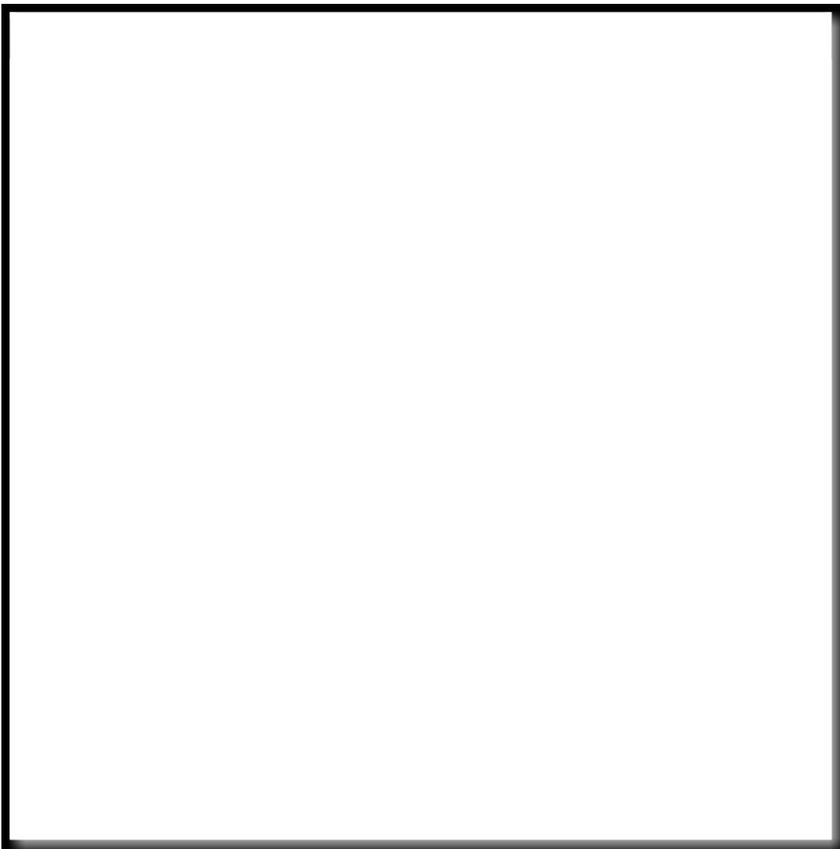


For first time usage it is smart to enable Debug apart from "Module Enabled".

Ping

Enabling devices to be pinged

To have a device, or better said, address to be pinged, you should add an device of the type "Ping" with interface "Network Interface":



Select the Type of the device to the "Ping" and the Interface will be automatically set to "Network Interface". Under IP Addr. fill in the IP address or host name of the device you want to ping.

For the Ping Device field there are three options:

Device	Status	Ping successful	Ping failure
Network Device	Status On/Off	On	Off
Network Host	Status Up/Down	Up	Down
Sony AIBO	Status AIBO	Awake	Sleeping

Values

Two values are "returned":

- value 1, "status", can be Up/Down, On/Off or Awake/Sleeping, see above
- value 2 is giving the average ping value that is read from the output of ping:

```
$ ping -c2 172.20.0.1
PING 172.20.0.1 (172.20.0.1) 56(84) bytes of data.
64 bytes from 172.20.0.1: icmp_req=1 ttl=64 time=0.681 ms
64 bytes from 172.20.0.1: icmp_req=2 ttl=64 time=0.505 ms

--- 172.20.0.1 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1001ms
rtt min/avg/max/mdev = 0.505/0.593/0.681/0.088 ms
```

Here value 2 will be 0.593

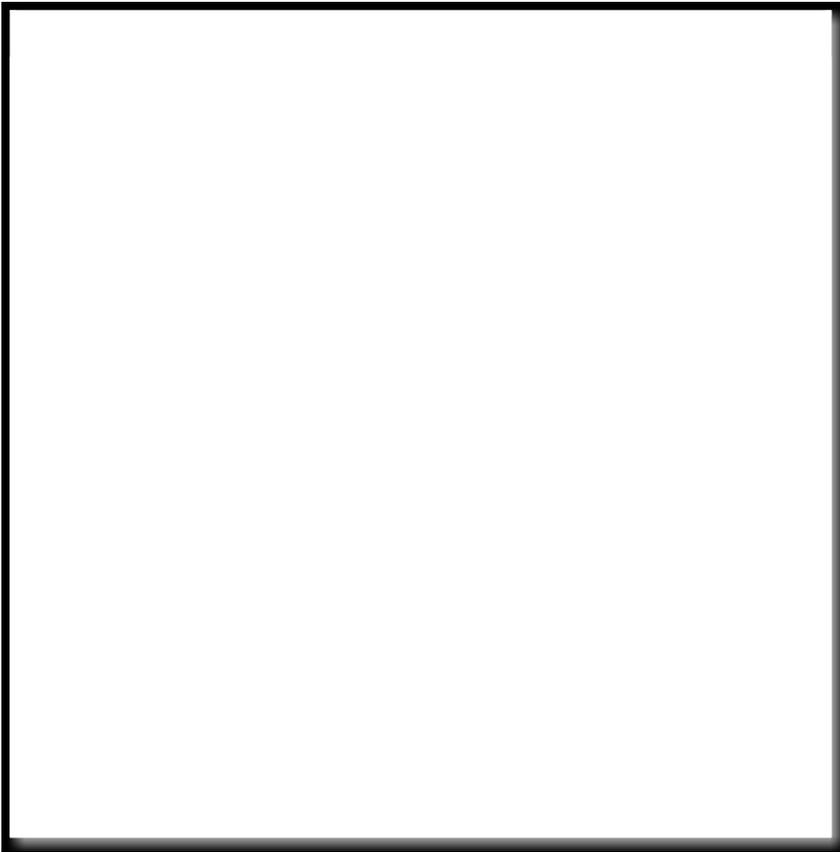
The status can be used in [Events](#) as trigger. You could for instance send an email if a goes down or even power cycle the host. The average ping value can be used to plot the average ping time using the [RRDTool](#) module. For this, see [Adding a graphs for a device value](#).

Arp-Scan

If you have enabled Arp-Scan, the plugin does a local network scan to see which arp request are answered, it then looks for all devices in the database which are of type Arp-Scan and check if they are found in the arp-scan output, if so their status is set to, Up, On, Home depending on devicetype.

To use arp-scan you have to install the command package, and allow normal users to run it as root by settings the 'sticky bit'

```
sudo apt-get install arp-scan
sudo chmod +s /usr/bin/arp-scan
```



Note: Arp-Scan can only be used for local networks, no mS time is returned, so it's just there or not there.

For the Arp-Scan Device field there are three options:

Device	Status	Scan successful	Scan failure
Network Device Arp-Scan	Status On/Off	On	Off
Network Host Arp-Scan	Status Up/Down	Up	Down
Mobile Device Arp-Scan	Status Home/Away	Home	Away

Debug

- Enable Debug for Devices: Setup -> Main, activate the Devices checkbox
- Enable Debug for Network Ping, see above
- Wait for a while and open the debug log
- You should see every 300 seconds (5 minutes) something like:

```
2014/07/26 12:07:24 [Devices] Interface with name 'Ping Socket' has id '5'  
2014/07/26 12:07:24 [Ping] Checking 'router' with address '172.20.0.1'.  
2014/07/26 12:07:25 [Devices] ValueUpdate called for device with id '77' valuenum '2' and value '0.552'  
2014/07/26 12:07:25 [Devices] Device change triggered for device with id '77' and value2 '0.552'  
2014/07/26 13:07:25 [Ping] Device with id '77' is 'Up'.
```

- If you do not see the first line, Network Ping is not enabled
- If you do not see lines with [Ping], no Ping socket devices are enabled, see above how to add them

Related Resources

Updated by: [4rdnzi](#), Updated [about 4 years](#) ago
Access count: 52752

Files

network-detect.png	22.3 KB	12/27/2014	rdnzi
network-ping.png	45.8 KB	12/27/2014	rdnzi
mobile-scan.png	55.9 KB	12/27/2014	rdnzi