

# NMIS 9 support for IPv6

NMIS9 has added support for IPv6 in version 9.1.2a. These key features were added to support IPv6:

- Support for polling devices using ICMP and SNMP with the IPv6 protocol.
- Redundant node polling using IPv6 addresses (For backup host)
- Capability to resolve domain names to IPv6 addresses and vice-versa
- Capability to collect IPv6 addresses table from devices
- IPv6 decodes from various forms to human readable



## How to add a Device with an IPv6 address?

Just need to set IPv6 address and select the right protocol version:

The screenshot shows the 'Table Nodes' form in the NMIS9 interface. The 'Name' field is set to 'asgard6'. The 'New Name' field is empty. The 'UUID' field is set to '4b287602-a89f-4228-a410-98f703b8a83a'. The 'Host Name/IP Address' field is set to '2001:ABAD:BEEF:88::1' and is highlighted with a red box. The 'Fallback Host Name/IP Address' field is empty. The 'IP Protocol' dropdown menu is open, showing 'IPv4' and 'IPv6' (selected). The 'Group' dropdown menu is set to '29'. The 'SNMP Community' field is set to 'OMKread'. The 'WMI Options' section is at the bottom.

We can use the Diagnostic tool to verify the ping is working:

<b>Node</b> <a href="#">asgard6</a>	<a href="#">status</a>	<a href="#">Interfaces</a>	<a href="#">active intf</a>	<a href="#">ports</a>	<a href="#">System Health ▾</a>	<a href="#">events</a>	<a href="#">outage</a>	<a href="#">Diagnostic ▾</a>	<a href="#">contact</a>	<a href="#">location</a>
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**Command ping for node asgard6 (2001:ABAD:BEEF:88::1)**

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PING 2001:ABAD:BEEF:88::1(2001:abad:beef:88::1) 56 data bytes
64 bytes from 2001:abad:beef:88::1: icmp_seq=1 ttl=64 time=0.534 ms
64 bytes from 2001:abad:beef:88::1: icmp_seq=2 ttl=64 time=0.522 ms
64 bytes from 2001:abad:beef:88::1: icmp_seq=3 ttl=64 time=0.561 ms

--- 2001:ABAD:BEEF:88::1 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2032ms
rtt min/avg/max/mdev = 0.522/0.539/0.561/0.016 ms
```