



AN110 – Configure Default DNS Servers

WebBrick Application Notes

Introduction

To be written soon.

Prerequisites

If you are connected to the gateway via an SSH connection that is external to the site, then you can be sure that the default network gateway is setup correctly. If you are connected internally, then please firstly check that the default gateway is setup correctly (AN XXX – Configure Default Network Gateway).

You can check if the DNS server is setup correctly by trying to ping an external address from the gateway (for example: ping www.google.com).

If this fails then try to ping the actual IP address of google. If this is successful you are most likely to have a DNS problem.

Software Configuration

All network setup information is stored in the `net` file, which is located in `/etc/conf.d/`.

1. Open this file using an editor of your choice, for instance: `nano /etc/conf.d/net`
2. The file should contain a line that defines the dns servers which are used:

```
dns_servers=( "AAA.BBB.CCC.DDD" )
```

If this line is not pointing to the right IP address, or is missing all together, then modifying/adding this line will resolve the issue.

3. After making changes, save the file by pressing **Ctrl-O**, followed by **Enter**. To then close the editor press **Ctrl-X**.

Note: For changes to take effect the network service will have to be restarted or the WebBrick Gateway be rebooted.

Sample 'net' File

```
# This blank configuration will automatically use DHCP for any net.*
# scripts in /etc/init.d. To create a more complete configuration,
# please review /etc/conf.d/net.example and save your configuration
# in /etc/conf.d/net (this file :|!).
dns_domain_lo="local"
dns_servers=( "192.168.1.254" )

# Primary connection
#config_eth0=( "dhcp" )
config_eth0=( "192.168.1.5/24" )
routes_eth0=( "default via 192.168.1.254" )
#fallback_eth0=( "10.100.100.1/8" )
#fallback_route_eth0=( "default via 10.100.100.254" )

# enable this and set valid address if you want to isolate webbricks
# from home network.
config_eth1=( "dhcp" )
fallback_config_eth1=( "172.0.0.1" )

# enable this and configure firewall if you want to isolate
# home computers from public network. YOU NEED to understand Linux
# firewalls. A DHCP server will serve IP addresses on this network.
config_eth2=( "10.100.100.1/8" )
#config_eth2=( "dhcp" )
```

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