



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).

Before continuing, please also check that domain names are successfully resolved by a DNS Server. The easiest way to do so is by trying to ping an external address (for example: ping www.google.com).

If this fails then please refer to AN 110 – Configure Default DNS Server.

Software Configuration

The NTP Server setup is contained in the `ntp.conf` file, which is in `/etc/` directory. Other files that are associated with the NTP Server Setup are:

```
/var/lib/ntp/ntp.drift
/var/log/ntp.log
```

1. Firstly please ensure that the following directory exists: `/var/lib/ntp`
2. If this is not the case then create it using the `mkdir` command.
3. Next open the `ntp.conf` file using an editor of your choice, for instance:

```
nano /etc/ntp.conf
```
4. The file should contain multiple lines that defines the ntp servers which are used, for the UK these are:

```
server 0.uk.pool.ntp.org
server 1.uk.pool.ntp.org
server 2.uk.pool.ntp.org
server 3.uk.pool.ntp.org
```
5. If the file does not contain these lines or similar ones defining servers to be used please add them.

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6. 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 NTP service will have to be restarted or the WebBrick Gateway be rebooted. The command to restart the NTP service is: `/etc/init.d/ntp restart`

Final Check

To ensure that the a connection to an NTP Server is now successfully being established check the `ntp.log` file.

Sample 'ntp.conf' File

```
# Generated by udhcpc for interface eth0
restrict default noquery notrust nomodify
restrict 127.0.0.1
restrict 10.0.0.254 nomodify notrap noquery
server 10.0.0.254
server 0.uk.pool.ntp.org
server 1.uk.pool.ntp.org
server 2.uk.pool.ntp.org
server 3.uk.pool.ntp.org
driftfile /var/lib/ntp/ntp.drift
logfile /var/log/ntp.log
```

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