**22 - R710 Proxmox Ansible NTP on Terraformed VMs pointing to NTP server on run host**

These notes cover adding a NTP as a server server to the run3 host and setting up via Ansible NTP on Terraformed VM’s to point at the NTP server on run3.

This document builds upon the previous documents.

# Setup NTP on run3 for it to serve Terraformed VM’s:

1. Log into rhys@run3
2. Do:  
   **sudo apt install ntp**
3. Its status can be checked with:  
   **systemctl status ntp**
4. To check that NTP is synchronizing correctly, do:  
   **ntpq - p**  
     
   to see something like:  
    *remote refid st t when poll reach delay offset jitter*

*==============================================================================*

*0.ubuntu.pool.n .POOL. 16 p - 64 0 0.000 0.000 0.000*

*1.ubuntu.pool.n .POOL. 16 p - 64 0 0.000 0.000 0.000*

*2.ubuntu.pool.n .POOL. 16 p - 64 0 0.000 0.000 0.000*

*3.ubuntu.pool.n .POOL. 16 p - 64 0 0.000 0.000 0.000*

*ntp.ubuntu.com .POOL. 16 p - 64 0 0.000 0.000 0.000*

*-static.135.154. 212.7.1.132 2 u 6 64 1 53.373 -0.008 0.301*

*+ntp1.m-online.n 212.18.1.106 2 u 5 64 1 36.598 2.021 0.138*

*-185.78.166.100 203.159.70.33 2 u 3 64 1 313.461 -42.613 3.322*

*\*time.rdg.uk.as4 85.199.214.100 2 u 3 64 1 18.800 2.168 0.601*

*+telesto.host.st 124.216.164.14 2 u 5 64 1 35.418 2.890 0.200*

*-058176194188.ct .GPS. 1 u 4 64 1 208.675 3.824 0.871*

*85.199.214.99 ( .GPS. 1 u 1 64 1 15.857 0.306 1.119*

*-grampus.irb.hr 83.143.51.50 2 u 9 64 1 52.332 -0.275 0.472*

*pugot.canonical 17.253.34.253 2 u 20 64 1 22.115 1.408 0.000*

*mail.redwebonli 195.66.241.3 2 u 6 64 1 40.701 -0.216 1.234*

*golem.canonical 17.253.108.253 2 u 18 64 1 20.507 2.632 0.000*

*ntp1.wirehive.n 92.21.53.217 2 u 7 64 1 17.426 1.314 0.560*

*chilipepper.can 17.253.34.123 2 u 16 64 1 14.365 0.525 0.000*

*alphyn.canonica 145.238.203.14 2 u 15 64 1 91.889 1.987 0.000*

1. In file /etc/ntp.conf adjust this line (as root):  
   **#restrict 192.168.123.0 mask 255.255.255.0 notrust**  
   to be:  
   **restrict 192.168.124.0 mask 255.255.255.0**  
     
   to limit access to this NTP server to local clients only and only allow read-only access.  
     
   Then restart ntp with:  
   **sudo systemctl restart ntp**

# Install NTP on Terraformed VM’s:

1. Log into: **rhys@run3**
2. Then in the **terraform** directory, run:

**./clear-sshs**

**terraform init**

**terraform plan  
  
terraform apply -target=module.cw1.proxmox\_vm\_qemu.test\_server**

1. You can then log into the new VM:

**ssh rhys@cw1**

1. Then log out of cw1 and in the **ansible** directory, create file **ntpmgmt.yml** and put the following into it:  
   ---

- hosts: cw1

become: yes

vars:

# point at host 'run3'

ntp\_server1: 192.168.124.162

tasks:

- name: check/install ntp client package

apt:

name=ntp

state=latest

update\_cache=yes

- name: deploy ntp.conf to hosts

template:

src=templates/ntp.conf.j2

dest=/etc/ntp.conf

owner=root

group=root

mode=0644

backup=yes

notify:

start\_restart\_ntp\_client

handlers:

- name: start\_restart\_ntp\_client

systemd:

name: ntp

state: restarted

enabled: yes  
  
**sudo apt instal**

1. Then in the ansible directory, to apply the ntpmgmt.yml file, do:  
   **ansible-playbook --ask-become-pass ntpmgmt.yml**
2. And to check that ntp is now operating on cw1, do:  
   **ansible cw1 -m shell -a 'ntpq -p'**  
     
   **ansible cw1 -m shell -a 'date'**
3. Finally, in the terraform directory destroy **cw1** with::  
   **terraform destroy -target=module.cw1.proxmox\_vm\_qemu.test\_server**