

## How to Configure Time Server (NTP) Settings

<https://campus.barracuda.com/doc/72516131/>

Precise timekeeping is very important for the firewall. Data accounting, configuration updates, logging, event notifications, and other time-based services rely on a correct time system. The firewall acts as a client and retrieves and sets the time according to the time retrieved from the NTP server. You can use multiple NTP servers. The time deviation between the NTP server and the firewall must be less than 1000 seconds for the synchronization to succeed. To continuously synchronize the time with a NTP server, you must enable the NTP daemon. If multiple time servers are used, the time server with the lower stratum value is preferred.

When you run the NTP, your system becomes vulnerable to NTP exploits and UDP-based DoS attacks. Never use untrusted reference time servers or run a time server in a hostile environment.

### Before You Begin

(optional) To use an FQDN or hostname as the NTP server, the firewall must be able to resolve the hostname. For more information, see [How to Configure DNS Settings](#).

### Step 1. Configure Time Settings

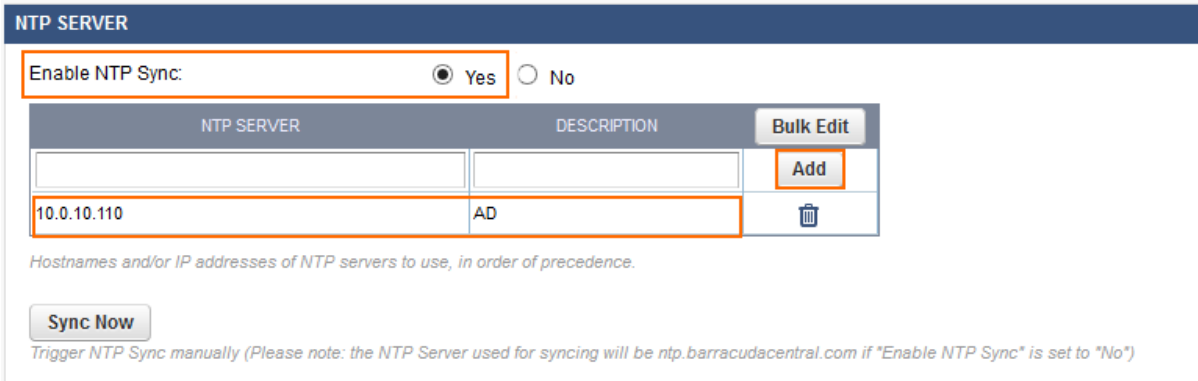
1. Go to **BASIC > Administration**.
2. In the **TIME** section, select your **Time Zone** in the form *Country/City*.  
You can use Etc/GMT time, or UTC. Etc/GMT times do not support daylight saving time (DST).
3. In the **Set Appliance Time** field, enter the time to set the firewall to in the form *Year-Month-Day Hours:Minutes AM/PM*.
4. Click **Save**.

### Step 2. Configure the Time Server(s)

Configure the NTP servers you are using. NTP servers must be reachable from the management IP address of the firewall.

1. Go to **BASIC > Administration**.

2. Set **NTP Sync** to **Yes**.
3. In the **NTP** field, enter the IP address or hostname of the NTP time server(s). Click **Add** after each entry.



**NTP SERVER**

Enable NTP Sync:  Yes  No

NTP SERVER	DESCRIPTION	Bulk Edit
<input type="text"/>	<input type="text"/>	<input type="button" value="Add"/>
10.0.10.110	AD	<input type="button" value="🗑"/>

*Hostnames and/or IP addresses of NTP servers to use, in order of precedence.*

*Trigger NTP Sync manually (Please note: the NTP Server used for syncing will be ntp.barracudacentral.com if "Enable NTP Sync" is set to "No")*

4. Click **Save**.

The NTP server is now configured to set and synchronize the time for your firewall. To trigger synchronization manually, click **Sync Now**.

## Event Processing

The event setting only pertains to NTPd behavior during controlled start or stop sequences. You will not be notified when NTPd is killed manually or just dies unexpectedly. Events are also triggered when the NTPd is restarted.

## NTP Troubleshooting

On the command line, enter: `ntpq -p` to check which NTP servers your firewall is using. See below for an example of a CloudGen Firewall using one NTP server (10.0.10.44) and three NTP peers. For more information, see <http://ntp.org>

```
[root@HQ-NG2:~]# ntpq -p
      remote           refid      st t when poll reach  delay  offset  jitter
=====
LOCAL(0)           .LOCL.        10 l 1810  16   0   0.000   0.000   0.000
*10.0.10.44        194.11.27.31  3 u  22   32  377   0.396  -0.807   0.102
-10.0.10.88        10.0.10.63    5 u  42   64  376   0.335  -0.125   0.326
+10.0.10.70        10.0.10.44    4 u  43   64  376   0.611  -0.186  21.559
+10.0.10.63        10.0.10.44    4 u  40   64  376   0.374  -0.201   9.844
[2014-11-10 16:03 CET] [-root shell-] [-Barracuda Networks-]
[root@HQ-NG2:~]#
```

## Figures

1. HA\_NTP.png
2. ntpq.png

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