

# Vmware ESXi 6.x NUT Client Installation and Configuration

## Requirements

- SSH must be enabled on your ESXi installation
- Community acceptance level must be enabled on your ESXi installation in order to install the client

## Installation

1. Secure copy the NutClient-ESXi-2.x.x.tar.gz to your ESXi server's /tmp directory by either using WinSCP/pscp in Windows or scp in Linux.
2. Set ESXi Community Acceptance level:

```
esxcli software acceptance set --level=CommunitySupported
```

3. Untar NutClient-ESXi-2.x.x.tar.gz:

```
tar -xzf NutClient-ESXi-2.x.x.tar.gz
```

4. Install Client:

```
sh upsmon-install.sh
```

5. If installation was successful you should see the following output:

```
Installation Result
```

```
Message: Operation finished successfully.
```

```
Reboot Required: false
```

VIBs Installed: Margar\_bootbank\_upsmon\_2.7.4-2.1.0

VIBs Removed:

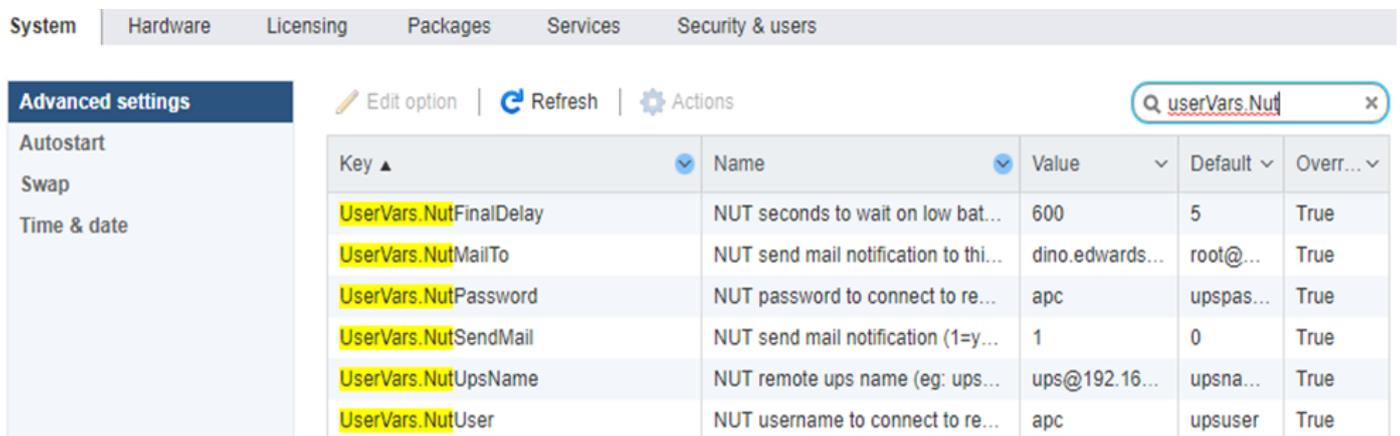
VIBs Skipped:

6. You can delete the files in the /tmp directory and disable the SSH service if desired.

## ESXi Configuration

1. In the ESXi Web client, navigate to **Host** → **Manage** → **System** → **Advanced Settings**. In the **Search** box enter **UserVars.Nut** (Figure 1).

Figure 1



The screenshot shows the ESXi Advanced Settings page. The search bar contains 'userVars.Nut'. The table below lists the following variables:

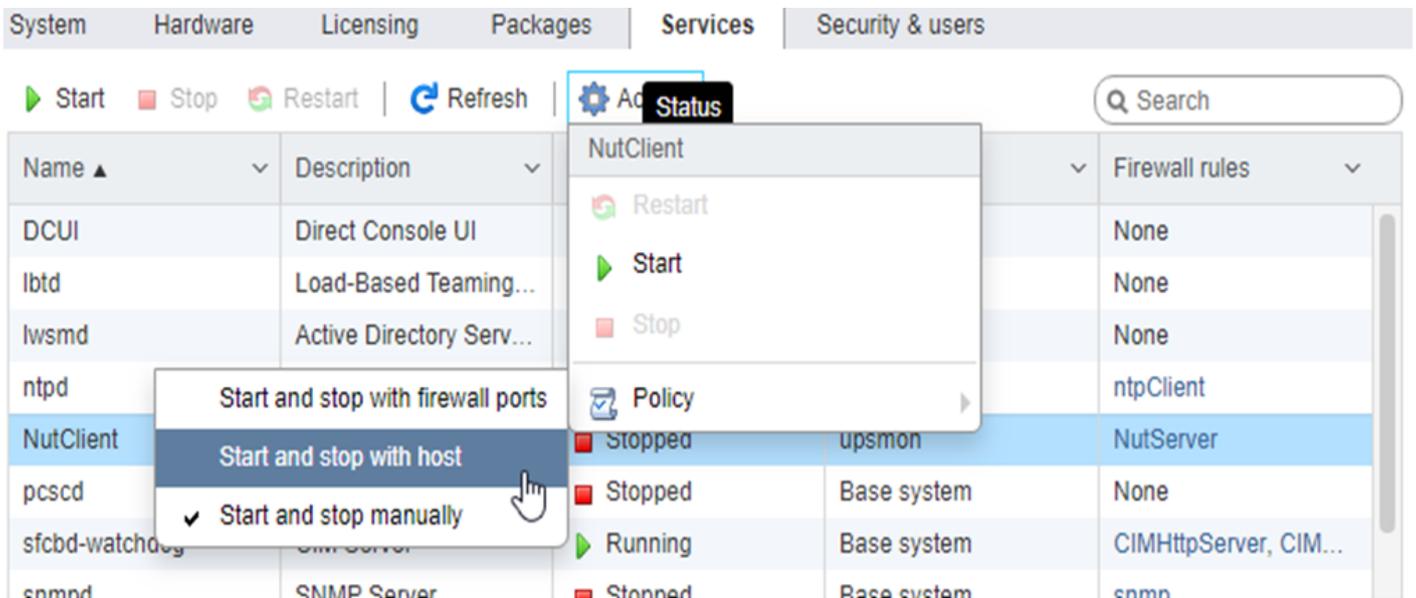
Key ▲	Name	Value	Default	Overr...
UserVars.NutFinalDelay	NUT seconds to wait on low bat...	600	5	True
UserVars.NutMailTo	NUT send mail notification to thi...	dino.edwards...	root@...	True
UserVars.NutPassword	NUT password to connect to re...	apc	upspas...	True
UserVars.NutSendMail	NUT send mail notification (1=y...	1	0	True
UserVars.NutUpsName	NUT remote ups name (eg: ups...	ups@192.16...	upsna...	True
UserVars.NutUser	NUT username to connect to re...	apc	upsuser	True

2. Configure the following variables:

- **NutUpsName:** Name of the UPS on the NUT server (in the form of inverter\_name@server\_name or server\_ip). Several inverters can be entered separated by a space. There will be no system shutdown until the last UPS still standing has given the shutdown command.
- **NutUser:** Name of the NUT server login account
- **NutPassword:** NUT Server Connection Account Password
- **NutFinalDelay:** Seconds to wait after receiving the low battery event to shut down the system
- **NutSendMail:** Set to 1 for the NUT client to send an e-mail to each important event of the UPS
- **NutMailTo:** E-mail address to send UPS events to

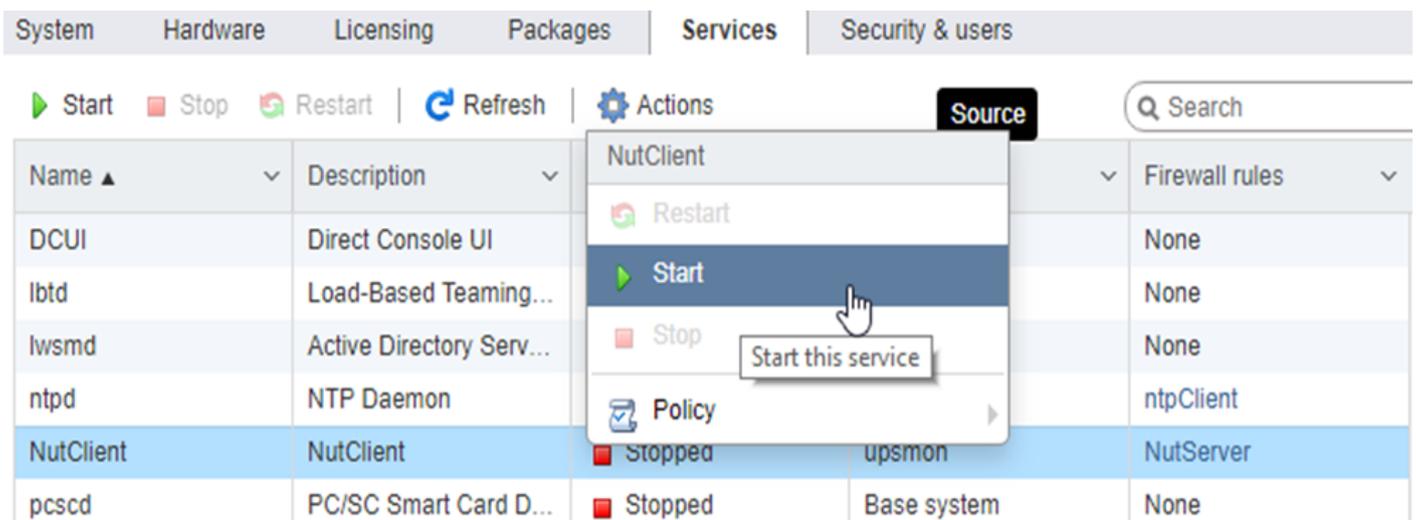
3. In the ESXi Web client, navigate to **Host** → **Manage** → **Services** → **NutClient** → **Actions** → **Policy** → **Start and Stop with Host** (Figure 2).

Figure 2



4. In the ESXi Web client, navigate to **Host** → **Manage** → **Services** → **NutClient** → **Actions** → **Start (Figure 3)**.

**Figure 3**



## Tips

- Use the ESXi host configuration tab in the vSphere Client to decide how to start and stop (or suspend) virtual machines. This order will be respected by the UPS shutdown procedure.
- The clean shutdown of the OS in the virtual machines is only possible if the vmware tools are installed.
- To uninstall the NUT client, use the upsmon-remove script that is in the file that you downloaded:

```
/tmp # sh upsmon-remove
```

- To estimate the time needed for the server to shut down on UPS alert, type the command below on the host ESXi (by ssh or on the console). The shutdown procedure is immediately started:

```
/opt/nut/sbin/upsmon -c fsd
```

- If the NUT Client is configured correctly, the ESXi `/var/log/syslog.log` should have a message similar to below where `ups@UPSHOST` is the ups name and the UPS host you setup earlier :

```
2019-09-22T13:28:07Z upsmon[2111424]: Communications with UPS ups@UPSHOST established
```

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