

HOWTO: NIM server first boot example

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NIM and firstboot

One of my favorite NIM resources is the firstboot resource. I use it to setup many things and thought I would show you how I add nim to my /etc/hosts and also configure ntp (contents of /etc/ntp.conf and autostart xntpd service) - to name a few!

An excerpt from my NIM firstboot script

```
# NIM firstboot - author: Michael Felt, AIXTOOLS.net and ROOTVG.net
# released to public domain - March 2016

# Always have hostname in short form
hname=`hostname -s`
chdev -l inet0 -a hostname=${hname}

# create alias for nim
master=`grep NIM_MASTER_HOSTNAME /etc/niminfo | awk -F= ' { print $2 } '`
sed -e "s/${hname}.*/${hname} &/" </etc/hosts \
    | sed -e "s/${master}/& nim/" >/tmp/hosts
cat /tmp/hosts >/etc/hosts
rm /tmp/hosts

# add ntp.conf config and start xntpd
cat - >/etc/ntp.conf <<EOF
# Default NTP configuration file.
#
# Broadcast client, no authentication.
#
# broadcastclient
driftfile /etc/ntp.drift
tracefile /etc/ntp.trace
```

```
server 127.127.1.0

# add whenever possible - a local ntp server

server ntp.home.local

# external ntp servers - useful when you have direct (outgoing) access

# or, for configuring your local ntp server

server 0.pool.ntp.org

server 1.pool.ntp.org

server 2.pool.ntp.org

server 3.pool.ntp.org

EOF

# now -S, nextboot only without -S, i.e. -a is autostart (after reboot)

chrctcp -S -a xntpd

# get the clock close - within offset abs(1000)

setclock nim

# make sure root is 'unlimited'

chuser fsize=-1 cpu=-1 data=-1 stack=-1 core=-1 rss=-1 root

# set hostname lookup to local,bind - unless something already in image

grep hosts= /etc/netsvc.conf >/dev/null

[[ $? -ne 0 ]] && echo "hosts=local,bind" >> /etc/netsvc.conf

# some useful environment settings

print EDITOR=/usr/bin/vi >>/etc/environment

print 'RES_RETRY=2' >>/etc/environment

print 'RES_TIMEOUT=5' >>/etc/environment

# PS1 includes loginName, hostname and current working directory

print 'PS1=$LOGNAME@`hostname`:\[$PWD\]' >>/etc/profile

print 'export PS1' >>/etc/profile

# consider making PS1 readonly
```

```
print '# readonly PS1' >>/etc/profile
```