



What is the order of commands in the `/etc/rc` file?



https://kb.netapp.com/Advice_and_Troubleshooting/Data_Storage_Software/ONTAP_OS/What_is_the...

Updated: Tue, 27 Jul 2021 22:52:26 GMT

Applies to

What is the order of commands in the `/etc/rc` file?

Answer

Some commands in `/etc/rc` file do not get executed.

The `/etc/rc` file

The commands in the `/etc/rc` file are run as the system boots to configure the storage system. You can run all the commands in `/etc/rc` at the command line interface. However, if you want to make a change permanent or to make the commands take effect at boot time, you must update the `/etc/rc` file. If your storage system is

licensed to run CIFS, then for CIFS to be enabled, the `/etc/rc` file must be present at storage system reboot.

Click [here](#) for the `/etc/rc` file format.

The `/etc/rc` default contents

See a sample `/etc/rc` file below. The sample setup session would generate the following `/etc/rc` file:

```
-----  
#Auto-generated /etc/rc Fri May 30 14:51:36 PST 1997  
hostname toaster  
ifconfig e0 `hostname`-0  
ifconfig e1 `hostname`-1  
ifconfig fi0 `hostname`-fi0  
ifconfig a5 `hostname`-a5  
route add default MyRouterBox  
routed on  
options dns.domainname netapp.com  
options dns.enable on  
options nis.domainname netapp.com  
options nis.enable on  
timezone US/Pacific  
snap sched 0 2 6@8,12,16,20  
savecore  
exportfs -a  
nfs on  
-----
```

Note: No CIFS-specific information is entered in `/etc/rc` as a result of setup. Do not add CIFS commands in `/etc/rc`.

Note: Booting without `/etc/rc` causes the storage system to use only default options settings; disregard all options settings you put in `/etc/rc`; and disable some services, such as syslog.

The following list explains the sample `/etc/rc` file line by line:

hostname toaster

Set the storage system's host name.

ifgrp create lacp ifgrp1 -b ip e0b e0c e0d

Create

```
ifgrps. ifgrp create [ single | multi | lacp ] ifgrp_name [ -b {rr|mac|ip|port} ]  
[ interface_list ]
```

vlan create ifgrp1 22 38 210

VLAN interfaces allow a single network interface card to participate in multiple broadcast domains supported by a VLAN enabled switch. Individual frames are tagged with a `vlanid` to distinguish which VLAN the data belongs to.

```
ifconfig e0 `hostname`-0  
ifconfig e1 `hostname`-1  
ifconfig f0 `hostname`-f0  
ifconfig a5 `hostname`-a5
```

Sets the IP address for the storage system's Ethernet, FDDI, AND ATM interfaces with a default network mask. (The network mask is set during the setup session.) The arguments in single backquotes expand to 'toaster' if you specify 'toaster' as the host name during setup. The actual IP addresses are obtained from the `/etc/hosts` file; you might prefer to enter IP addresses directly in `/etc/rc`. If the specified network interface is not present, ifconfig issues an error message and has no other effect.

The actual interface names and numbers depend on the storage system model. For more information about interface names, refer to Naming Conventions for Network Interfaces.

CAUTION: If you change the storage system's host name, you must modify the `/etc/hosts` file to substitute the new host name. If you do not, ifconfig fails.

To override the default network mask, explicitly specify the network mask in the ifconfig command after the host name. For example:

```
ifconfig e1 `hostname`-1 netmask 255.255.0.0
```

route add default LocalRouter 1

Specifies the default router. You can add route commands to `/etc/rc` to set static routes for the storage system. The network address for LocalRouter must be in `/etc/hosts`.

routed on

Starts the routing daemon. For more information about routing, see Routing.

timezone US/Pacific

Sets the time zone. The argument here specifies which file in the `/etc/zoneinfo` directory describes the time

zone you want.

snap sched 0 2 6@8,12,16,20

Sets the schedule for automatic snapshot creation. The line in the example `/etc/rc` file is the default setting, which creates and keeps no weekly snapshots, two daily snapshots (created at midnight every night), and six hourly snapshots (created at 8 A.M., 12 noon, 4 P.M., and 8 P.M.).

exportfs -a

Exports all directories specified in the `/etc/exports` file. This command is included only if the storage system runs NFS.

nfs on

Turns on NFS file service. This command is included even if NFS is not licensed for your storage system. If the storage system runs this command from `/etc/rc` on a filer without an NFS license, the command fails and these messages appear:

```
NFS service is not licensed.
```

(Use the `'license'` command to license it.)

```
NFS server is NOT running.
```

dns on

Turns on the Domain Name Service.

nis on

Turns on the Network Information System.

savecore

Saves the core file from a system panic, if any, in the `/etc/crash` directory. Core files are created only during the first boot after a system crash.

Additional Information

Add your text here.