



Red Hat Enterprise Linux Release 9.2 Manual Pages on 'hostname.1' command

\$ man hostname.1

HOSTNAME(1) Linux Programmer's Manual HOSTNAME(1)

NAME

hostname - show or set the system's host name
domainname - show or set the system's NIS/YP domain name
ypdomainname - show or set the system's NIS/YP domain name
nisdomainname - show or set the system's NIS/YP domain name
dnsdomainname - show the system's DNS domain name

SYNOPSIS

hostname [-a|--alias] [-d|--domain] [-f|--fqdn|--long] [-A|--all-fqdns]
[-i|--ip-address] [-I|--all-ip-addresses] [-s|--short] [-y|--yp|--nis]
hostname [-b|--boot] [-F|--file filename] [hostname]
hostname [-h|--help] [-V|--version]
domainname [nisdomain] [-F file]
ypdomainname [nisdomain] [-F file]
nisdomainname [nisdomain] [-F file]
dnsdomainname

DESCRIPTION

Hostname is used to display the system's DNS name, and to display or set its hostname or NIS domain name.

GET NAME

When called without any arguments, the program displays the current names:

hostname will print the name of the system as returned by the `gethost?`

name(2) function.

domainname will print the NIS domainname of the system. domainname uses the gethostname(2) function, while ypdomainname and nisdomainname use the getdomainname(2).

dnsdomainname will print the domain part of the FQDN (Fully Qualified Domain Name). The complete FQDN of the system is returned with hostname --fqdn (but see the warnings in section THE FQDN below).

The function gethostname(2) is used to get the hostname. When the hostname -a, -d, -f or -i is called will gethostbyname(3) be called.

The difference in gethostname(2) and gethostbyname(3) is that gethostbyname(5) is network aware, so it consults /etc/nsswitch.conf and /etc/host.conf to decide whether to read information in /etc/hostname or /etc/hosts

SET NAME

When called with one argument or with the --file option, the commands set the host name or the NIS/YP domain name. hostname uses the sethostname(2) function, while all of the three domainname, ypdomainname and nisdomainname use setdomainname(2). Note, that this is effective only until the next reboot. Edit /etc/hostname for permanent change.

Note, that only the super-user can change the names.

It is not possible to set the FQDN or the DNS domain name with the dnsdomainname command (see THE FQDN below).

The host name is usually set once at system startup (normally by reading the contents of a file which contains the host name, e.g. /etc/hostname).

THE FQDN

The FQDN (Fully Qualified Domain Name) of the system is the name that the resolver(3) returns for the host name, such as, ursula.example.com.

It is usually the hostname followed by the DNS domain name (the part after the first dot). You can check the FQDN using hostname --fqdn or the domain name using dnsdomainname.

You cannot change the FQDN with hostname or dnsdomainname.

The recommended method of setting the FQDN is to make the `hostname` be an alias for the fully qualified name using `/etc/hosts`, DNS, or NIS.

For example, if the hostname was "ursula", one might have a line in `/etc/hosts` which reads

```
127.0.1.1 ursula.example.com ursula
```

Technically: The FQDN is the name `getaddrinfo(3)` returns for the host name returned by `gethostname(2)`. The DNS domain name is the part after the first dot.

Therefore it depends on the configuration of the resolver (usually in `/etc/host.conf`) how you can change it. Usually the hosts file is parsed before DNS or NIS, so it is most common to change the FQDN in `/etc/hosts`.

If a machine has multiple network interfaces/addresses or is used in a mobile environment, then it may either have multiple FQDNs/domain names or none at all. Therefore avoid using `hostname --fqdn`, `hostname --do?` `main` and `dnsdomainname`. `hostname --ip-address` is subject to the same limitations so it should be avoided as well.

OPTIONS

`-a, --alias`

Display the alias name of the host (if used). This option is deprecated and should not be used anymore.

`-A, --all-fqdns`

Displays all FQDNs of the machine. This option enumerates all configured network addresses on all configured network interfaces, and translates them to DNS domain names. Addresses that cannot be translated (i.e. because they do not have an appropriate reverse IP entry) are skipped. Note that different addresses may resolve to the same name, therefore the output may contain duplicate entries. Do not make any assumptions about the order of the output.

`-b, --boot`

Always set a hostname; this allows the file specified by `-F` to be non-existent or empty, in which case the default hostname `lo?`

calhost will be used if none is yet set.

-d, --domain

Display the name of the DNS domain. Don't use the `do?` `mainname` to get the DNS domain name because it will show the NIS domain name and not the DNS domain name. Use `dnsdomainname` instead. See the warnings in section THE FQDN above, and avoid using this option.

-f, --fqdn, --long

Display the FQDN (Fully Qualified Domain Name). A FQDN consists of a short host name and the DNS domain name. Unless you are using bind or NIS for host lookups you can change the FQDN and the DNS domain name (which is part of the FQDN) in the `/etc/hosts` file. See the warnings in section THE FQDN above and use `hostname --all-fqdns` instead wherever possible.

-F, --file filename

Read the host name from the specified file. Comments (lines starting with a ``#'`) are ignored.

-i, --ip-address

Display the network address(es) of the host name. Note that this works only if the host name can be resolved. Avoid using this option; use `hostname --all-ip-addresses` instead.

-I, --all-ip-addresses

Display all network addresses of the host. This option enumerates all configured addresses on all network interfaces. The loopback interface and IPv6 link-local addresses are omitted. Contrary to option `-i`, this option does not depend on name resolution. Do not make any assumptions about the order of the output.

-s, --short

Display the short host name. This is the host name cut at the first dot.

-V, --version

Print version information on standard output and exit successfully.

fully.

-y, --yp, --nis

Display the NIS domain name. If a parameter is given (or --file name) then root can also set a new NIS domain.

-h, --help

Print a usage message and exit.

NOTES

The address families hostname tries when looking up the FQDN, aliases and network addresses of the host are determined by the configuration of your resolver. For instance, on GNU Libc systems, the resolver can be instructed to try IPv6 lookups first by using the inet6 option in /etc/resolv.conf.

FILES

/etc/hostname Historically this file was supposed to only contain the hostname and not the full canonical FQDN. Nowadays most software is able to cope with a full FQDN here. This file is read at boot time by the system initialization scripts to set the hostname.

/etc/hosts Usually, this is where one sets the domain name by aliasing the host name to the FQDN.

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