# 1.1 Linux Basics

## Thursday 3<sup>rd</sup> March, 2022

#### **Contents**

1	/etc/hosts	1
2	/etc/resolv.conf	2
3	/etc/nsswitch.conf	2

### 1 /etc/hosts

As your machine gets started, it will need to know the mapping of some hostnames to IP addresses before DNS can be referenced. This mapping is kept in the /etc/hosts file. In the absence of a name server, any network program on your system consults this file to determine the IP address that corresponds to a host name.

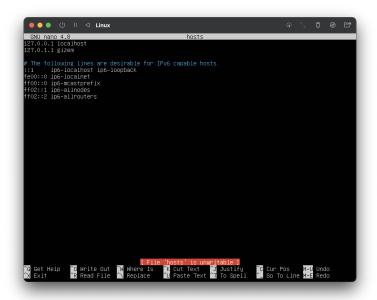


Figure 1

### 2 /etc/resolv.conf

The /etc/resolv.conf file defines how the system uses DNS to resolve host names and IP addresses. This file usually contains a line specifying the search domains and up to three lines that specify the IP addresses of DNS server. The following entries from /etc/resolv.conf configure two search domains and three DNS servers:

Listing 1: resolv.conf example

```
nameserver 192.168.154.3
nameserver 192.168.154.4
nameserver 10.216.106.3
```

### 3 /etc/nsswitch.conf

The /etc/nsswitch.conf file is used to configure which services are to be used to determine information such as hostnames, password files, and group files. The last two ones, password files, and group files in our case are not used, since we don't use NIS services on our server. Thus, we will focus on the hosts line in this file.

```
# Example configuration of GNU Name Service Switch functionality.
# Example configuration of GNU Name Service Switch functionality.
# If you have the glibo-doc-reference and info packages installed, try:
# info libb "Name Service Switch" for information about this file.
passwd: files systemd group: files systemd shadow: files
gshadow: files
mosts: files dns
networks: files dns
networks: files services: db files
services: db files
services: db files
services: db files
netgroup: nis

"/etc/nsswitch.conf" [readonly] 20L, 510C 1,1 Al1
```

Figure 2