

# *Linux Interview Questions & Answers*



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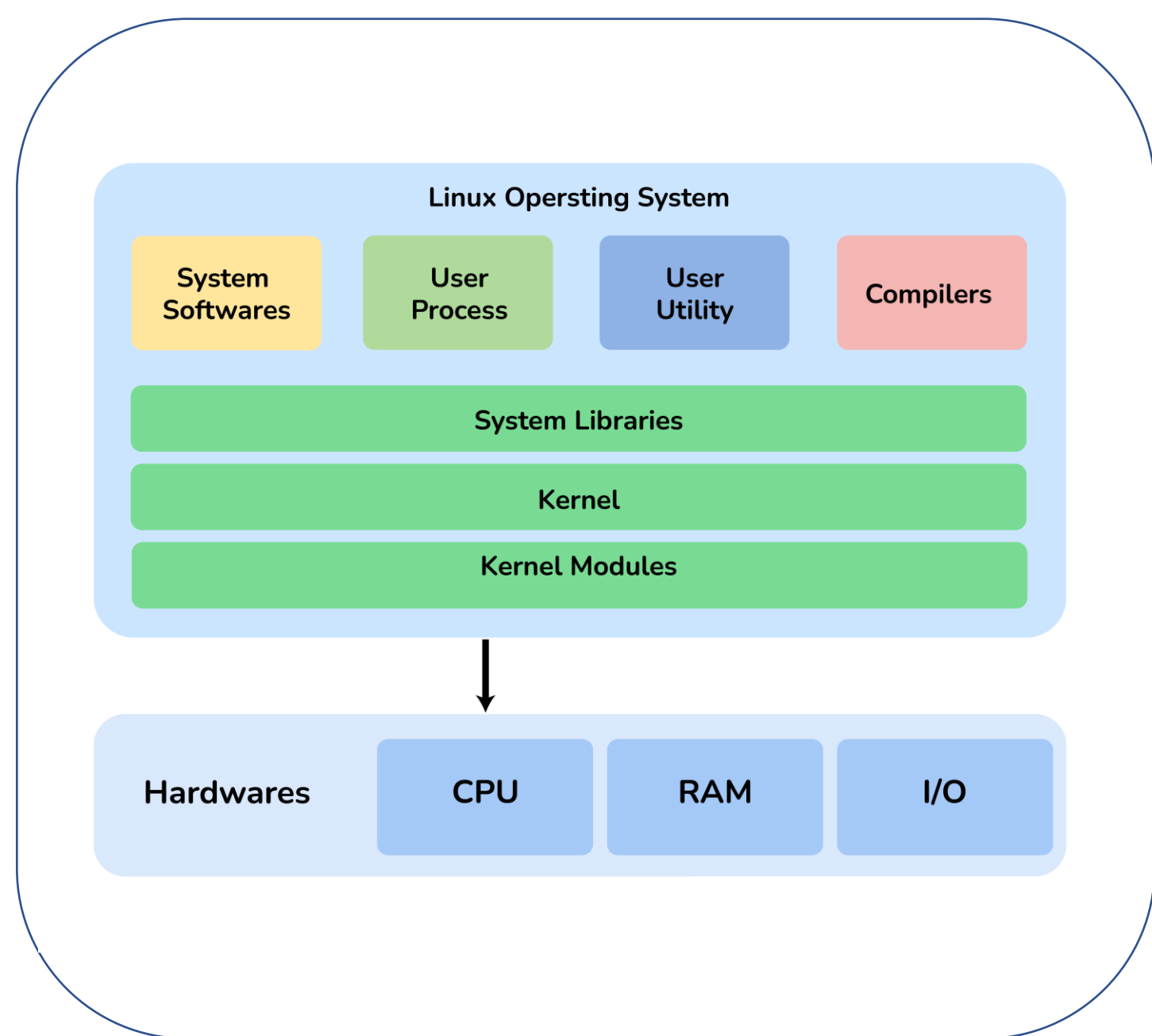
# Linux



# Linux Interview Questions & Answers

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## What do you mean by Linux

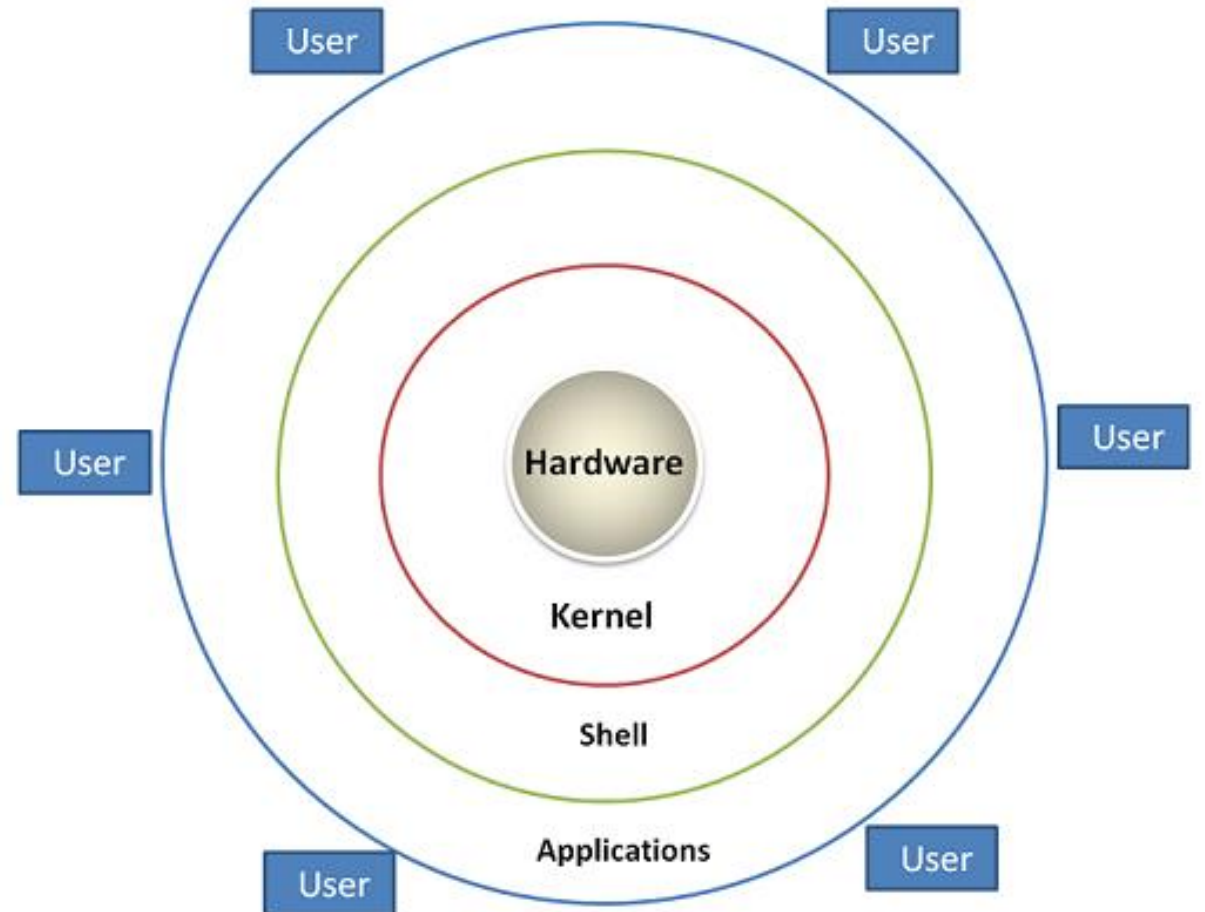


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What is the difference between Linux and Unix

## Linux System Architecture

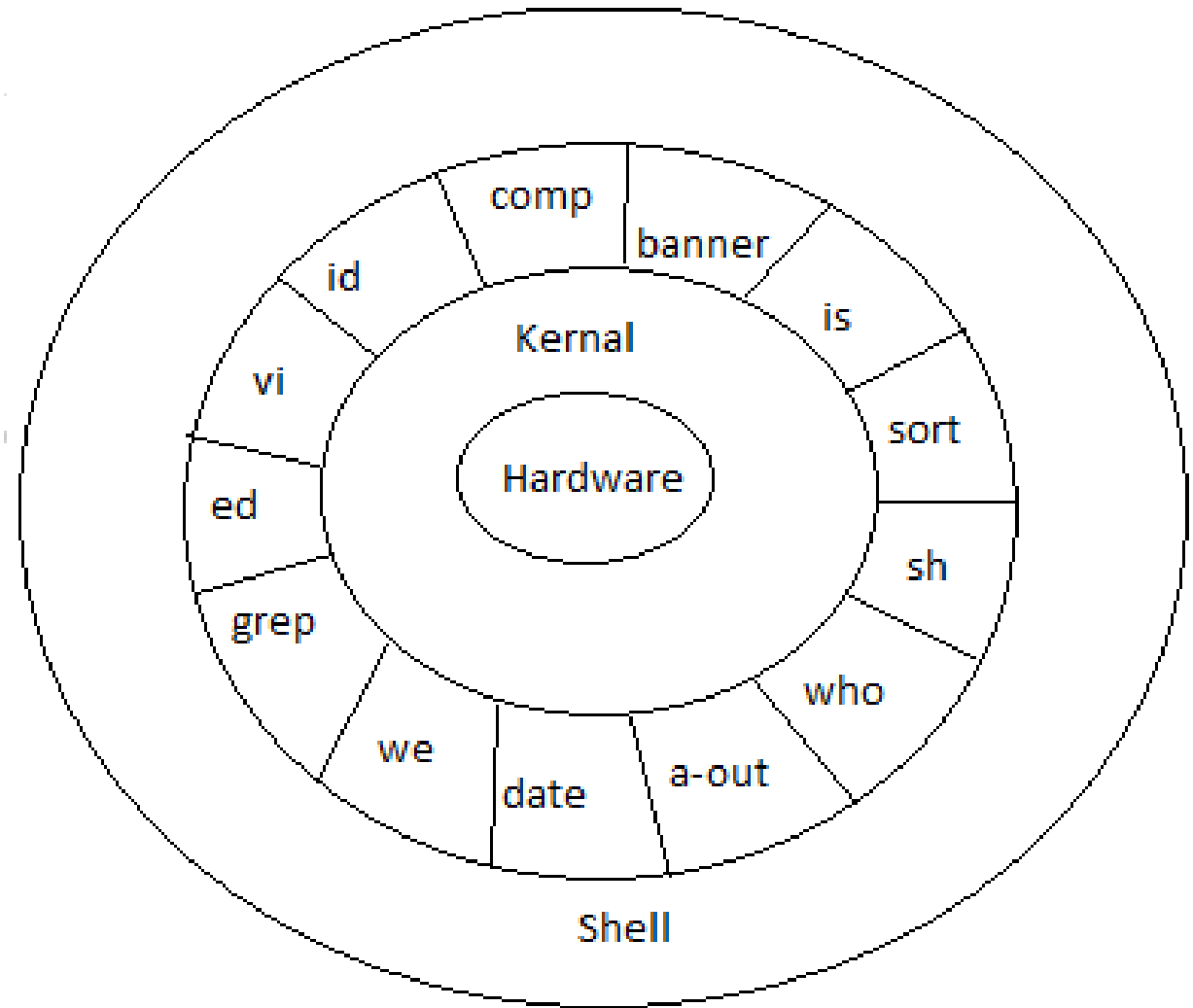


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What is the difference between Linux and Unix

## Unix System Architecture



# Linux Interview Questions & Answers

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## What is BASH

```
bash-introduction — -bash — 92x15
[bash-introduction (master) > bash make-files.txt
total 0
drwxr-xr-x  5 Uday.Hiwarale  staff   160B Aug 31 23:22 .
drwxr-xr-x  9 Uday.Hiwarale  staff   288B Aug 31 23:22 ..
-rw-r--r--  1 Uday.Hiwarale  staff    0B Aug 31 23:22 jenna.txt
-rw-r--r--  1 Uday.Hiwarale  staff    0B Aug 31 23:22 john.txt
-rw-r--r--  1 Uday.Hiwarale  staff    0B Aug 31 23:22 mike.txt
bash-introduction (master) >
```



4

How many types of Shells are there in Linux

C Shell (csh)

Korn Shell (ksh)

Z Shell (Zsh)

Bourne Again Shell  
(bash)

Friendly Interactive  
Shell (Fish)



5

## What are the basic components of Linux

Kernel

Shell

GUI

System Utilities

Application  
Programs



6

Explain File Permissions  
types in Linux

Read

Write

Execute



7

Describe the root account

- The root is the user name, that default has access to all files and commands. The root user can do many things, but an ordinary user cannot do like installing software, change file permissions, etc

## 8

### Explain the virtual desktop

- Virtual Desktop is a user interface when you are facing the problem of how to manage multiple windows on your desktop, virtual desktop serves as an alternative. Virtual desktop stores remote server and allow you to use one or more programs on a clean slate

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What are inode and process id

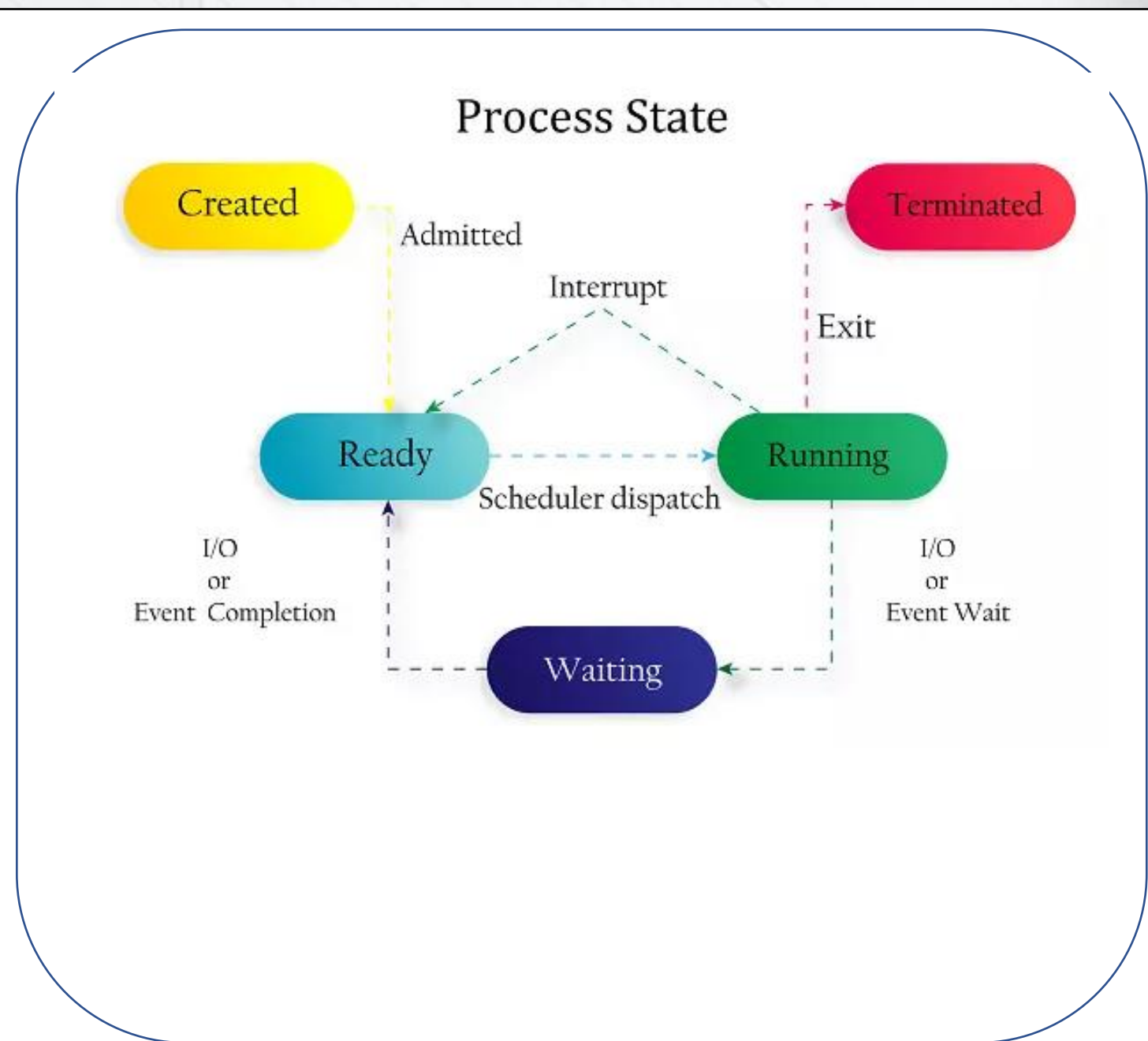
Inode

Process



10

## What are the Process states in Linux



11

Explain File Permission  
groups in Linux

Owner

Group

All Users



12

## Explain Process Management System Calls in Linux

`fork()`

`exec()`

`wait()`

`exit()`

`getpid()`

`getppid()`



13

What are the different  
modes when using the vi  
editor?

**Command Mode/ Regular Mode**

**Insertion Mode/Edit Mode.**

**Ex Mode/ Replacement Mode**



14

### What are the hard links

- A hard link is another name for an existing file on Linux. We can create so many numbers of hard links, for any file. They can create links for other hard links



15

## What is redirection

- Redirection can be defined as changing the standard input and output devices. To redirect metacharacters are used, you can redirect the file or program



16

## What are Daemons

- A Daemons is a background process that accepts the requests for service from other computers, most of the operating systems use daemons in other forms



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What are the different modes of Network bonding in Linux

Mode-0(balance-rr)

Mode-1(active-backup)

Mode-2(balance-xor)

Mode-3(broadcast)

Mode-4(802.3ad)

Mode-5(balance-tlb)

Mode-6(balance-alb)



18

Where the kernel modules are located

- **lib/modules/kernel-version/**, this directory stores all the information about the compiled drives under the Linux system. Using lsmod command also we can see the installed kernel modules

19

### How to change the default run level in Linux

- To change the default run level in Linux use the init command



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### How to share a directory using NFS

- To share a directory using NFS, first edit the configuration file and `/etc/exports` and add an entry like directory name `"/<directory-name>".` Now restart the NFS service



21

### What is the top Command in Linux

- Top command used to show the system process and it displays and updates the sorted process information



22

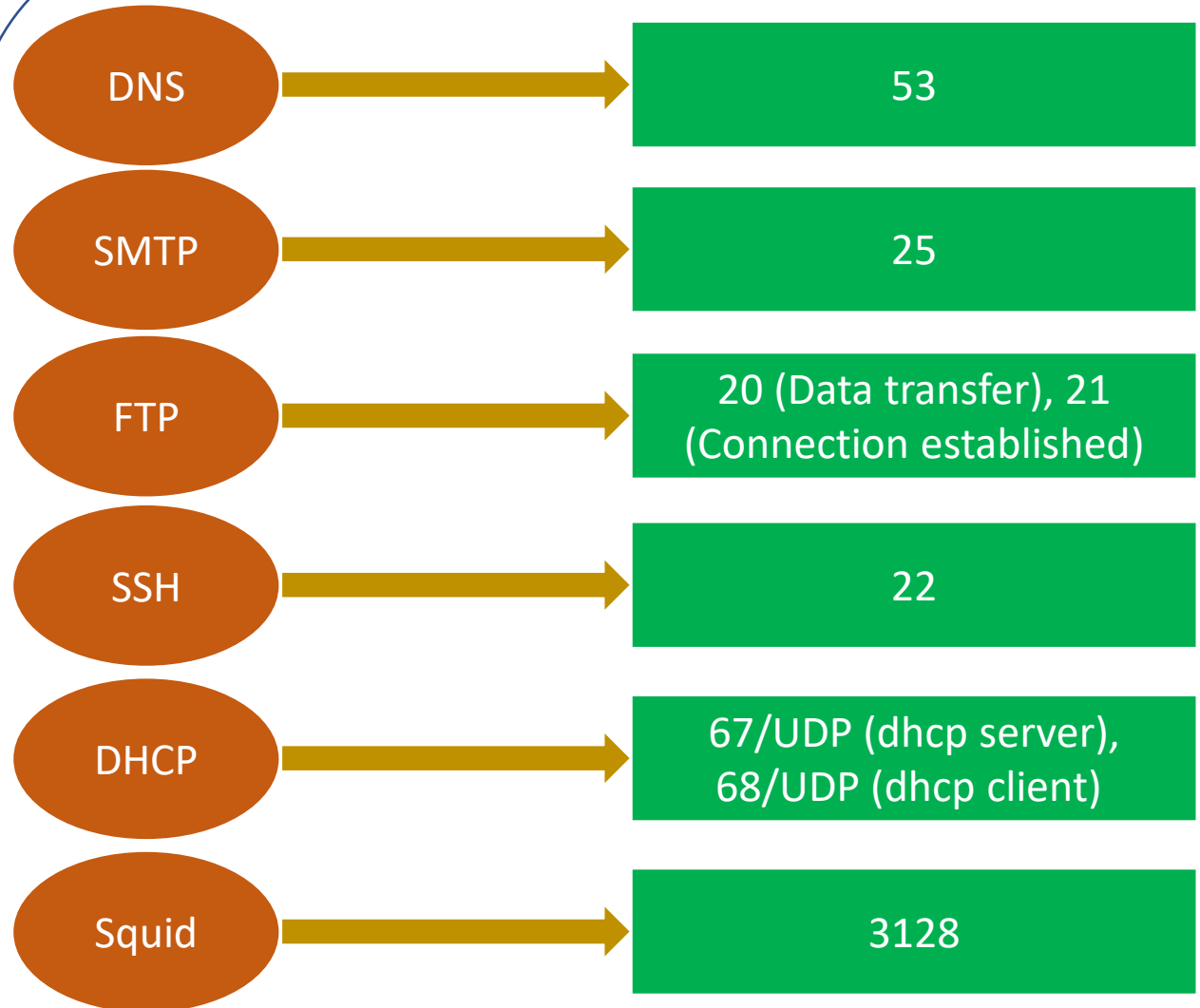
### What is netstat command in Linux

- netstat command gives various information about the network and routing tables, interface statistics and more about the system



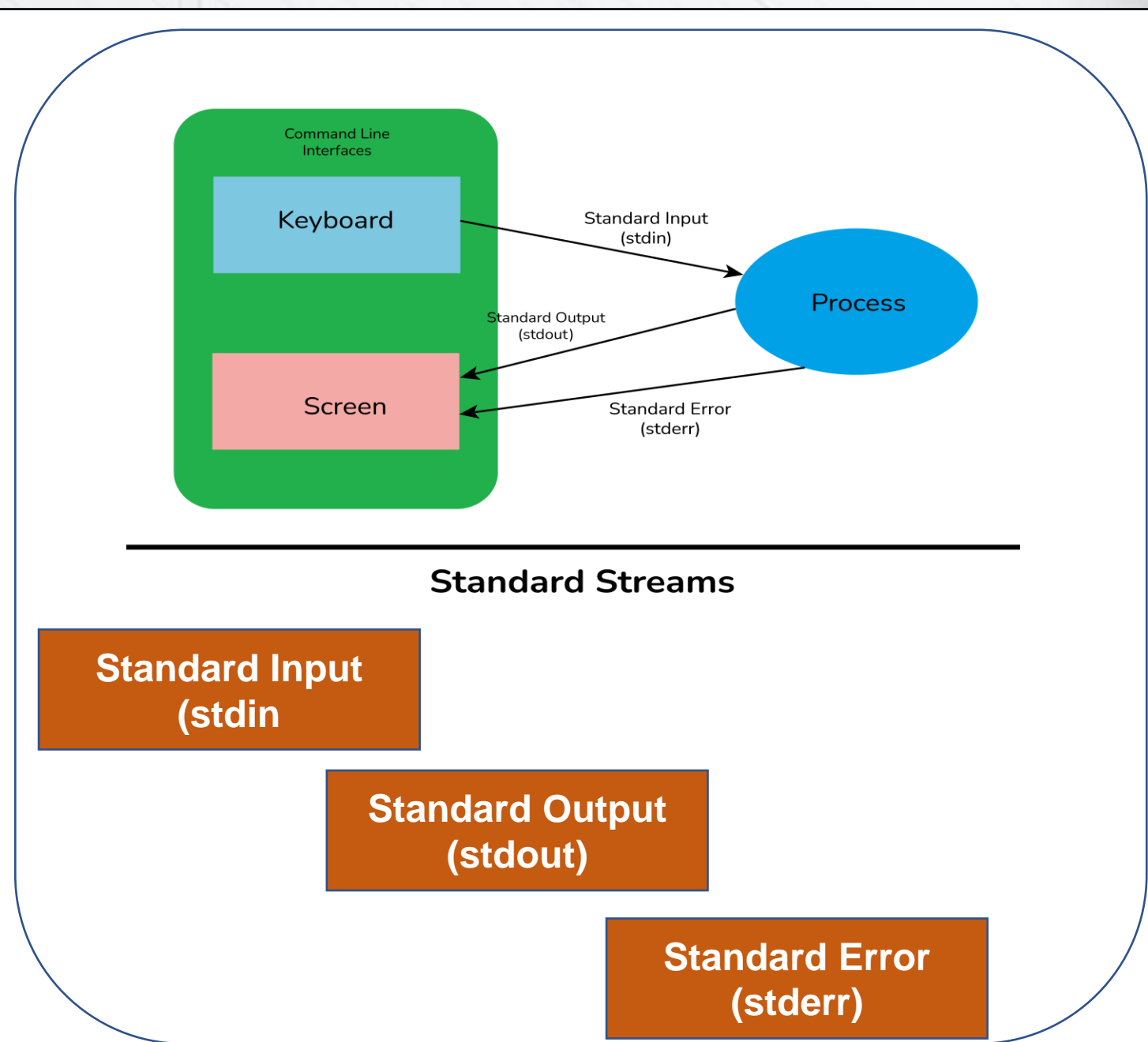
23

Name default ports used for DNS, SMTP, FTP, SSH, DHCP and squid.



24

Name three standard streams in Linux



25

Which command is used to count the number of characters in a file

- The command that is used to count the number of characters in a file in Linux is “wc”. Here “wc” stands for word count. It is used to count the number of lines, words, and characters in a text file



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Is it legal to edit Linux Kernel?

- Yes , it is absolutely legal to edit Linux Kernel. Kernel is released under General Public License(GPL) , and anyone can edit Linux Kernel to the extent permitted under GPL. Linux Kernel comes under the category of Free and Open Source Software(FOSS).



27

Which is the first process started by the kernel and what is its process id?

- 'init' is the first process in linux which is started by the kernel and its process id is 1.



28

## What is Shell

- Shell is a computer program that acts as an interface between the user and the kernel. Users can communicate with the kernel by writing programs, commands, and scripts on the shell. It accepts human-readable commands and converts them into the kernel understandable language.



29

### What are the symbolic links

- It will be redirected to another file using its path. Target files do not contain any data. Symbolic links redirect to another entry somewhere in the file system. If the target file is deleted, the link to that file is removed, but not the file



30

## Explain the features of Stateless Linux Server

Stores the prototype of every  
system

Stores the snapshot was taken

Stores the home directories.

Uses LDAP, which contains the  
information about which  
snapshot should run on which  
system

