Ports are assigned by computer i.e. operating system to different applications. Ports help computer to differentiate between incoming and outgoing traffic. Since the port is a 16-bit unsigned number it ranges from **0 to 65535.**

**Types of Ports**

Ports are further divided into three categories:

1. Well Known Port
2. Registered port
3. Dynamic Port

**Well Known Port**

It is from the range 0 to 1023

It is reserved for common and specifically used service

It is used by some widely adopted protocols and services like HTTP(port 80), FTP(port 21), DNS(Port 53), SSH(port 22), etc…..

**Registered Port**

It is from range 1024 to 49151

These are used by applications or services that are not as common

But it is used by those applications or services which require its specific port

Organizations can ask IANA(Internet Assigned Number Authority) for any specific port number within this range

**Dynamic Port**

It is from range 49152 to 65535

It is also known as Ephemeral or Private Port

It is used for those connections that are temporary or short-lived

It is not registered or assigned and can be used by any process

**Some Popular Port Numbers**

Some common/Popular port numbers that are used by those applications/services which are frequently used by us-

| **Port Number** | **Used By** |
| --- | --- |
| 80 | HTTP(Hyper Text Transfer Protocol) |
| 23 | Telnet |
| 25 | SMTP(Simple Mail Transfer Protocol) |
| 53 | DNS(Domain Name System) |
| 7 | Echo |
| 20/21 | FTP(File Transfer Protocol) |
| 69 | TFTP(Trivial File Transfer Protocol) |
| 443 | HTTPS(Hyper Text Transfer Protocol Secure) |
| 22 | SSH(Secure Shell) |
| 110 | POP3(Post Office Protocol version 3) |
| 67/68 | DHCP(Dynamic Host Configuration Protocol0 |
| 123 | NTP(Network Time Protocol) |
| 143 | IMAP(Internet Messaging Access Protocol) |
| 1433 | Microsoft SQL |
| 3306 | MySQL |
| 5432 | PostgreSQL |
| 27017 | MongoDB |