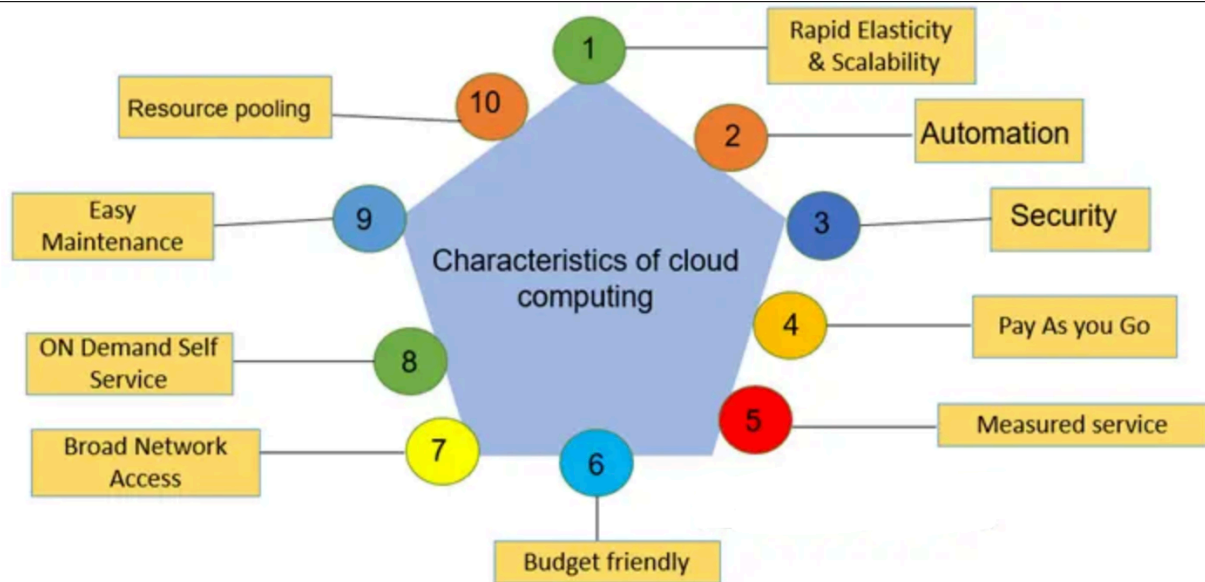# Benefits of Cloud Computing:

Following are the characteristics of Cloud Computing:

1.   Resources Pooling

- It means that the Cloud provider pulled the computing resources to provide services to multiple customers with the help of a multi-tenant model. There are different physical and virtual resources assigned and reassigned which depends on the demand of the customer.
- The customer generally has no control or information over the location of the provided resources but is able to specify location at a higher level of abstraction

2.   On-Demand Self-Service

- It is one of the important and valuable features of Cloud Computing as the user can continuously monitor the server uptime, capabilities, and allotted network storage. With this feature, the user can also monitor the computing capabilities.

3.   Easy Maintenance

- The servers are easily maintained and the downtime is very low and even in some cases, there is no downtime.

- Cloud Computing comes up with an update every time by gradually making it better.
- The updates are more compatible with the devices and perform faster than older ones along with the bugs which are fixed.

4. Large Network Access

- The user can access the data of the cloud or upload the data to the cloud from anywhere just with the help of a device and an internet connection.
- These capabilities are available all over the network and accessed with the help of internet.

5. Availability

- The capabilities of the Cloud can be modified as per the use and can be extended a lot. It analyzes the storage usage and allows the user to buy extra Cloud storage if needed for a very small amount.

6. Automatic System

- Cloud computing automatically analyzes the data needed and supports a metering capability at some level of services. We can monitor, control, and report the usage.
- It will provide transparency for the host as well as the customer.

7. Economical

- It is the one-time investment as the company (host) has to buy the storage and a small part of it can be provided to the many companies which save the host from monthly or yearly costs.
- Only the amount which is spent is on the basic maintenance and a few more expenses which are very less.

8. Security

- Cloud Security, is one of the best features of cloud computing. It creates a snapshot of the data stored so that the data may not get lost even if one of the servers gets damaged.
- The data is stored within the storage devices, which cannot be hacked and utilized by any other person. The storage service is quick and reliable.

9. Pay as you go

- In cloud computing, the user has to pay only for the service or the space they have utilized.
- There is no hidden or extra charge which is to be paid. The service is economical and most of the time some space is allotted for free.

10. Measured Service

- Cloud Computing resources used to monitor and the company uses it for recording. This resource utilization is analyzed by supporting charge-per-use capabilities.
- This means that the resource usages which can be either virtual server instances that are running in the cloud are getting monitored measured and reported by the service provider.
- The model pay as you go is variable based on actual consumption of the manufacturing organization.