TRACK NAME

Cloud Solution Architecture

S. No.	Topics
1	**Pre-Requisites Of Cloud**
2	Basics of Security and Privacy
3	CapEX and OpEx in Cloud Computing
4	Compute
5	Storage
6	Networking
7	VPN- Virtual Private Network
8	Data Center
9	DR site - Disaster Recovery
10	Mapping of on-prem Infrastructure setup to Cloud
11	Cloud TCO

Pre-requisites of Cloud

Prerequisites to learn cloud computing

Cloud computing is an advanced sector and requires you to be familiar with multiple subjects because it is related to many technologies.

Here are the primary topics you should know to start learning cloud computing:
►Programming Skills
►Knowledge of Agile Developments
►Knowledge of Operating Systems
►Knowledge of Databases
►The basics of Security & Privacy
►The basics of Networking

Programming Skills.

Cloud computing professionals use multiple programming languages.
It includes:

- Java
- PHP
- Python
- YAML
- JSON
- .NET

Each of these languages has its distinct advantages so you should focus on developing a basic understanding of each of them.
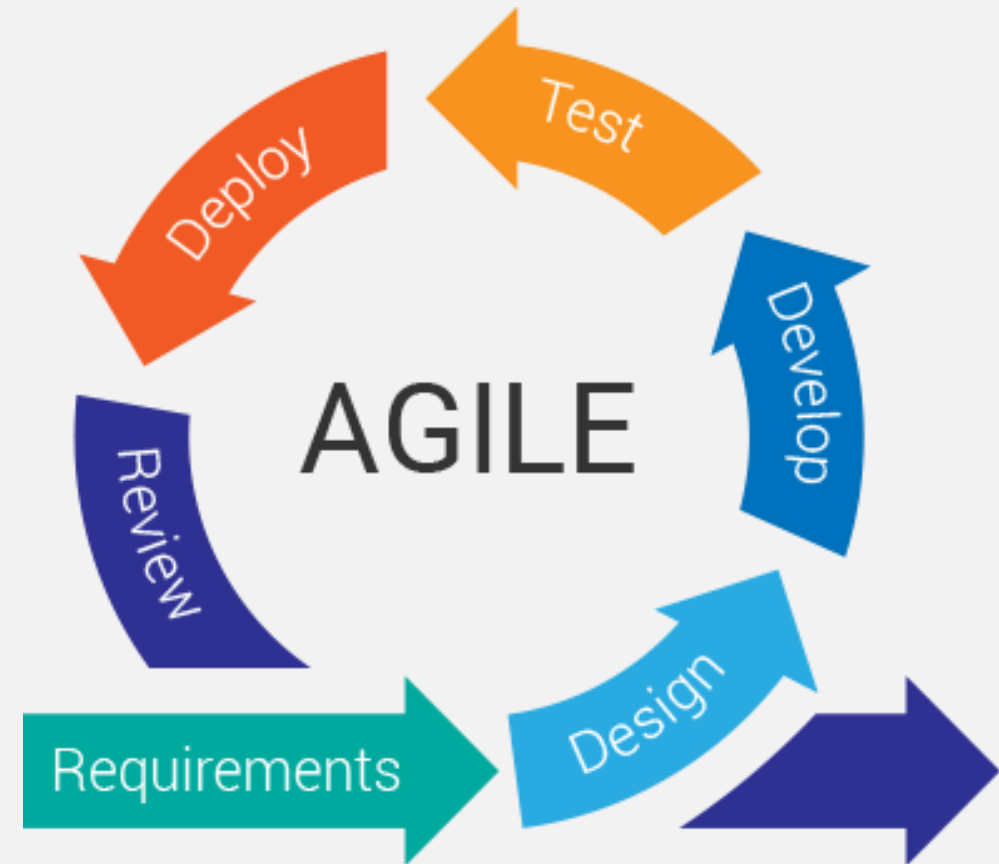
Knowledge of Agile Development

Agile development is a software development methodology that focuses on developing products through the collaboration of cross-functional and self-organising teams and their users.

In this methodology,

► A team releases the product after it has reached a certain development stage.
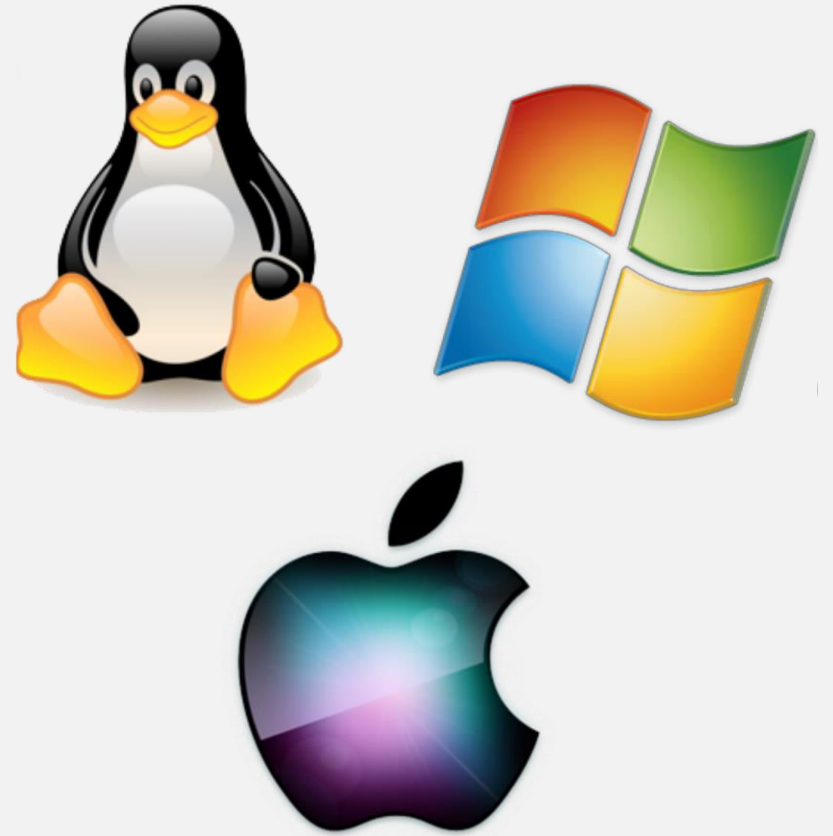► Update the product based on the user feedback on the same.

Knowledge of Operating Systems.

Familiarity with the basic operating system is a must, such as:

➔ Windows
➔ MacOS
➔ Linux.

Linux is a little more important than the other operating systems because it's a widely popular solution among companies for cloud computing implementations.
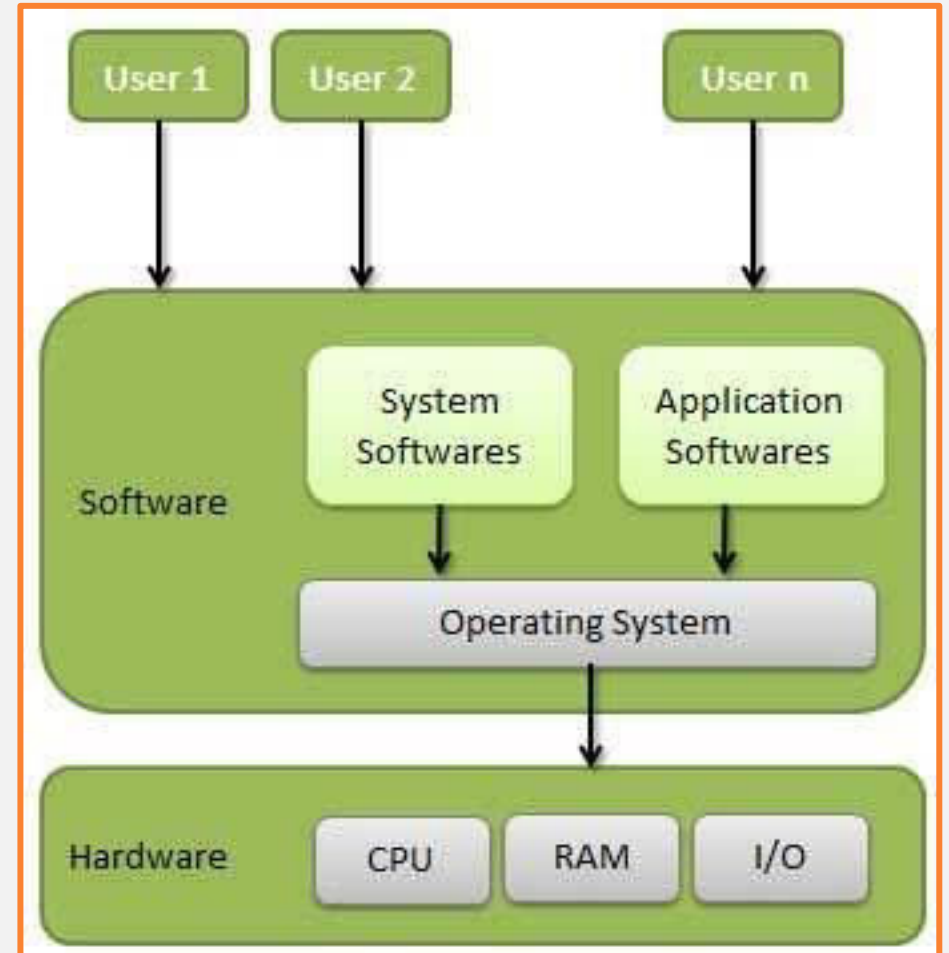
Knowledge of Operating Systems.

An operating system is a program that acts as an interface between the user and the computer hardware and controls the execution of all kinds of programs.
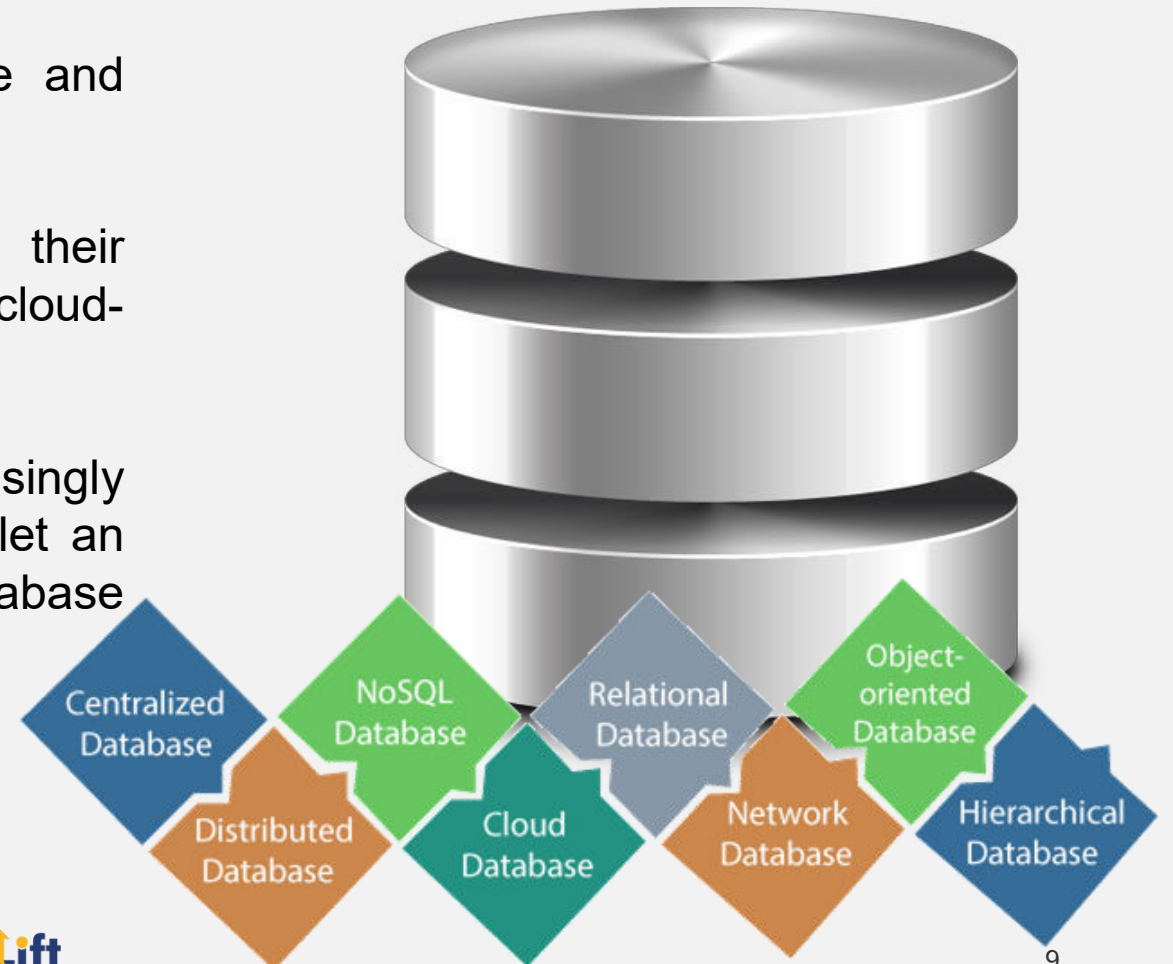
Functions:
➔ Memory Management
➔ Processor Management
➔ Device Management
➔ File Management
➔ Security
➔ Control over system performance
➔ Error detecting aids
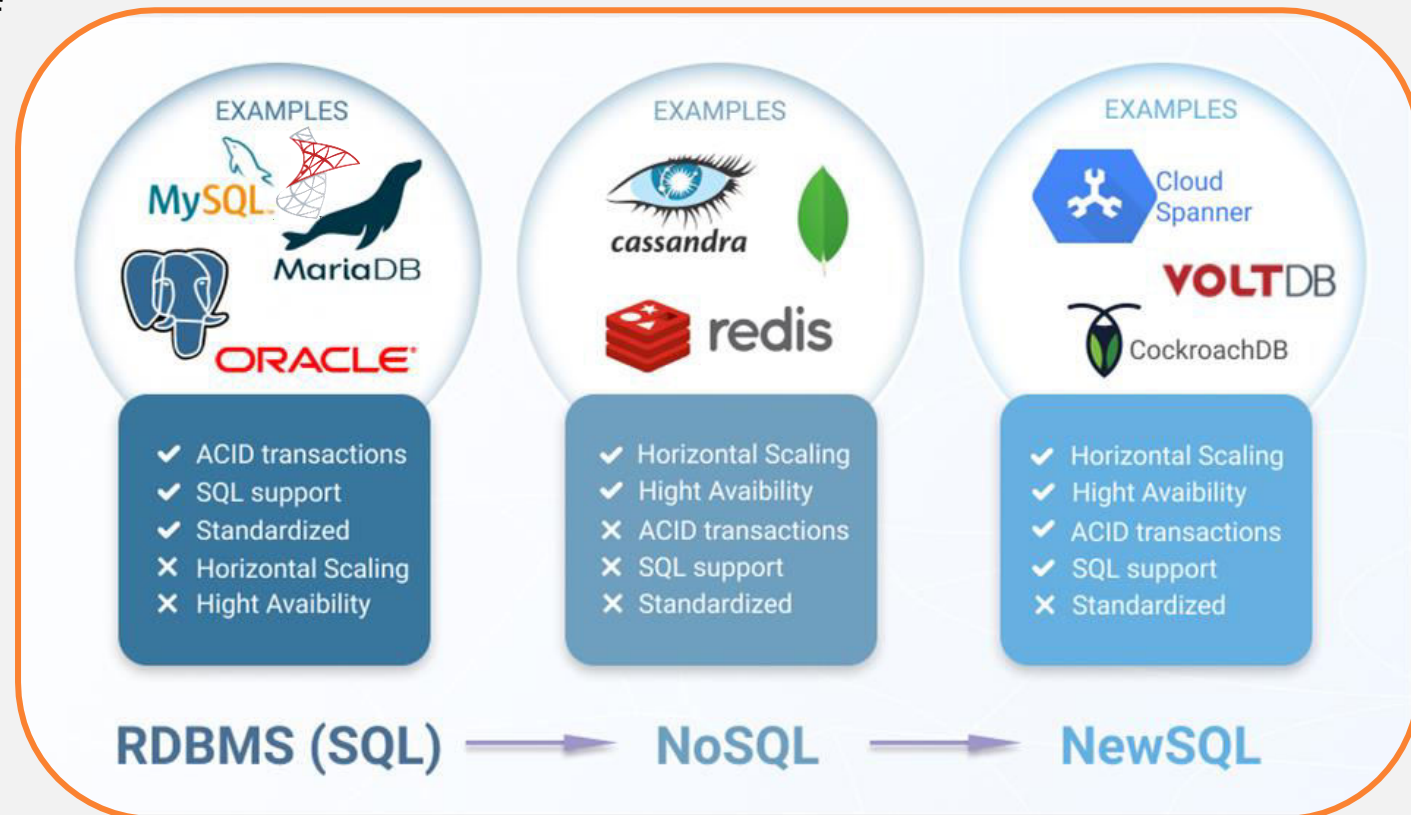➔ Coordination between other software and users

Knowledge of Databases.

➔ Databases allow companies to easily store and access a lot of information.

➔ Cloud computing professionals help their organizations by creating and managing cloud-based databases.

➔ Cloud-based databases have become increasingly popular in the last few years because they let an organization avail the benefits of having a database without the necessary hardware.
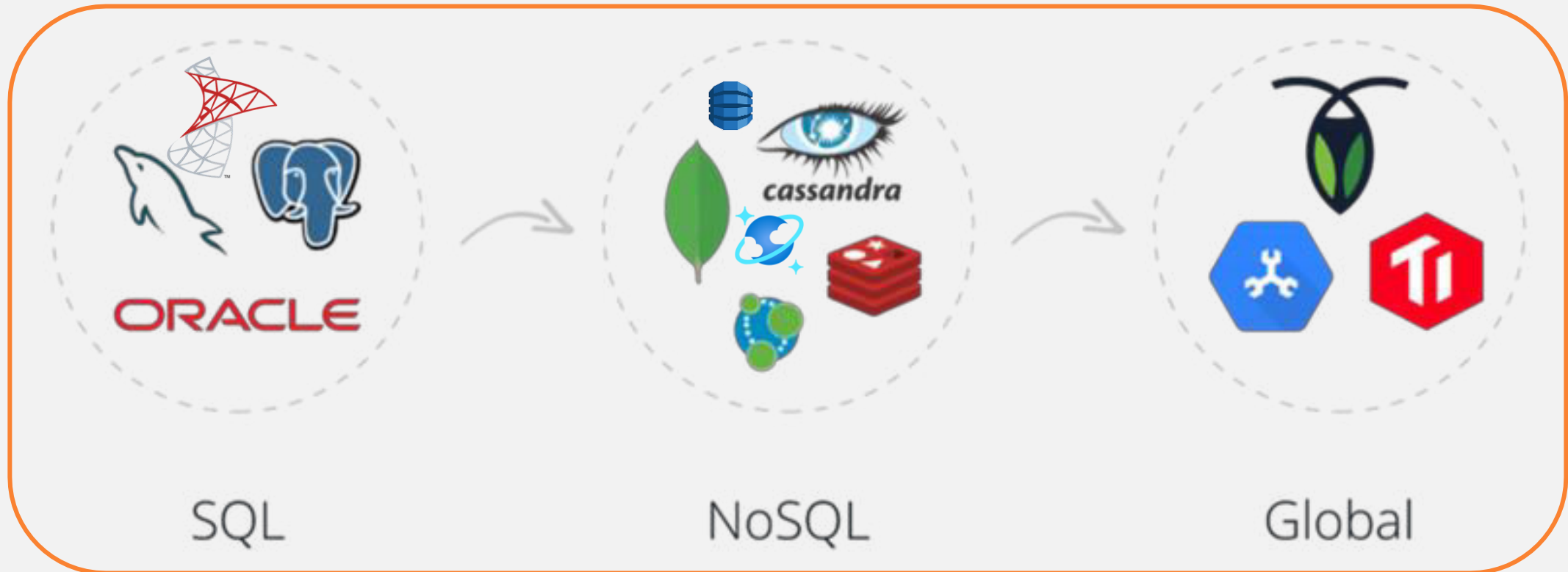
Knowledge of Databases.

➔ Apart from covering the basics of databases, you should also learn related technologies.

➔ SQL is the programming language for handling a relational database management system. Apart from SQL, other prominent database technologies are MongoDB, MySQL, and Apache Hadoop.

Knowledge of Databases.

Some types of Databases

SQL   NoSQL   Global

● Review Of the Topics
● Discussion