AWS

Biryani ->
- Rice
- Water
- Spices
- Chicken
- Onion
- Utensils
- a person
- A kitchen set-up

RESOURCES

HUMAN RESOURCES

- People/personnels involved in building, testing, deploying & maintaining the application.

-- Developers
-- Testing Engg.
-- Business Analysts
-- QA
-- PM

IT RESOURCES

-- All the tools, technologies, infrastructures & platform to build & run our application.

IT RESOURCES

- HARDWARE RESOURCES
- SOFTWARE RESOURCES

HARDWARE RESOURCES

Physical components which are present inside the machine.

1. Compute Resources: Any devices/component which is having:

-- CPU
-- Memory/RAM
-- Storage

eg: Laptop, Mobile, Server, etc.

2. Storage Resources: To store the date/files so that it can retrieved when needed.

eg: Hard-disks (SSD,HDD), Pendrives, CD,etc.

3. Networking Equipments: These devices/equipments are used to transfer data from one device to another device..

eg: Cables, Routers, Modems, Switches,etc.

4. Data centers: Location where the servers are present at a large scale.

SOFTWARE RESOURCES

Non- physical components which manages your hardware.

1. System Software: Responsible for running other programs/application.

eg: OS (Linux, Windows, MacOS)

2. Application software: Programs designed to perform some specific tasks.

eg: Qtalk, Browser, Excel, Word, Excalidraw, etx.

PROBLEM WITH TRADITIONAL IT RESOURCES

-- SHRIEMPIRE (application)

1. Initial captial/investment is very high.

1. Emp
2. Infrastructure
3. Salary
4. Servers

100 emp -> 100 laptops
1 lakh x 100 = 1 cr

Serves -> 17 cr

Salary -> 50 lac

→ This is just for providing compute resources

2. Manage & maintain the hardware resources as well as the data center/server room.

To run the app -> Servers

To run & maintain the servers ->
24*7 power supply
24*7 running servers - Produces extreme heat
- Coolants are installed - They also run 24*7

Server maintenance

3. Limited Scalability

Normal Days -> 1 lakh -> 10 servers

Sale -> 20 lakh -> UPSACLE THE RESOURCES

- Buy or rent (100 servers)
- Time consuming process

After sale -> 1 lakh -> 10 servers.

- 90+ servers are not in unused.

DOWNSCALING THE RESOURCES

4. Less Accessibilty

5. Security concerns