What data is big data

3Vs

1. Velocity → Speed at which system is getting the data
2. Variety → Type of data
   - Structured → CSV, Excel, Text
   - Semi-Structured → JSON, Logs, Text
   - Unstructured → Image, Audio, Video, Text
3. Volume → Size of data at

Tech Aspect

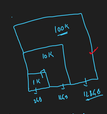
Business Aspect

4. Veracity → Trustworthy nature of data
   - Credit Card → Collecting authentic - 0
   - → → Collecting random in bank - 1
5. Value
   - Internet will provide higher value

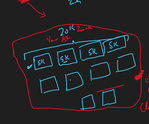
Scaling → ↑ or ↓ the resources based on demand

- → Horizontal Scaling
- → Vertical Scaling

EC2

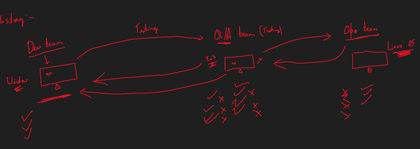


Vertical Scaling



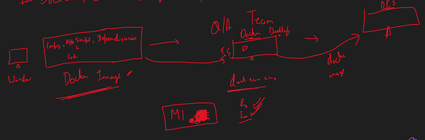
Horizontal Scaling

History -



Fulfill
→ CONTINUE...
→ C// FAILING...

Docker → Containerize your app and share



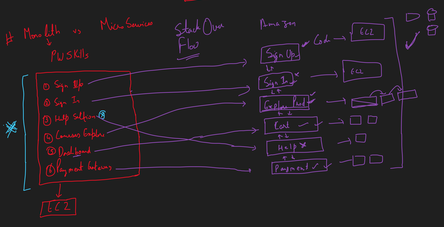
MI

Monolith vs Micro Services

PUSKILLS

Stack Over Flow

Amazon

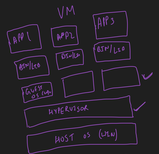
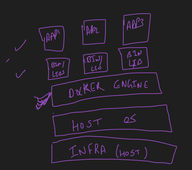


Advantages of Micro Service

1. Increased Efficiency
2. Easy to scale
3. Easier maintenance & updating
4. Faster time to market → Latency ↓↓
5. Improved Fault Tolerance
6. Independent Deployment
7. Increased Modularity

Disadvantage

1. High cost
2. High complexity
3. High chance of security breach
4. Increased network traffic
5. Dependent on the Dev Ops team

Docker vs Virtual Machine (VM) →

Container ⊖ Image, I.S. etc. Image ← Image ← Container