

# Assignment – 2

## 1: Virtualization and its Role in Cloud

- **Objective:** Understand the concept of virtualization in cloud computing.
  - **Task:** Define virtualization and describe its types (server, storage, network). Explain the difference between Type 1 and Type 2 hypervisors with examples.
  - **Tool:** Class notes / Tech websites (e.g., VMware, IBM)
  - **Deliverable:** Handwritten explanation
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## 2: Cloud Providers

- **Objective:** Learn about major cloud service providers.
  - **Task:** Compare AWS, Azure, and Google Cloud. Make a 3-column table with key features, service highlights, and pricing strategy.
  - **Tool:** Official websites (aws.amazon.com, azure.microsoft.com, cloud.google.com)
  - **Deliverable:** Handwritten
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## 3: SOA Programming Model

- **Objective:** Understand the Service-Oriented Architecture model and its relevance to cloud.
  - **Task:** Define SOA, describe its principles, and explain how SOA enables cloud services. Add a basic diagram if possible.
  - **Tool:** Textbook / Internet sources
  - **Deliverable:** Handwritten notes + diagram
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## 4: Cloud-Based Operating Systems

- **Objective:** Study OSs designed specifically for cloud environments.
  - **Task:** Choose any 2 cloud OSs (e.g., Chrome OS, Joli OS, EyeOS), and write their features, use-cases, and differences from traditional OSs.
  - **Tool:** Product websites / Wikipedia / Tech blogs
  - **Deliverable:** Handwritten
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## 5: Cloud Deployment Tools

- **Objective:** Understand the tools used for deploying and managing cloud applications.
- **Task:** List and describe any 3 tools (e.g., Docker, Kubernetes, Terraform). Mention their purpose and use in cloud environments.
- **Tool:** DevOps tools documentation / Class notes
- **Deliverable:** Handwritten with short bullet points