Practical Work of Chapter one and Two

Chapter One

Compare the services, pricing, and user interfaces offered by different providers.

Analyze a case study where an organization transitioned from traditional IT infrastructure to the cloud, and present the benefits and challenges faced.

Chapter Two

Use a PaaS provider (e.g., AWS Elastic Beanstalk, Azure App Service, or Google App Engine) to deploy a simple application, such as a “Hello World” web app.

Sign up for a SaaS application (e.g., Google Workspace, Microsoft 365, or Salesforce) then explore and document its features, benefits, and limitations.

Case Study One

This case study was assigned and evaluated to fulfill the following practical assignment of chapter one .

Assignment : Analyze a case study where an organization transitioned from traditional IT infrastructure to the cloud, and present the benefits and challenges faced.

Case Study Question
Read the following case studies and make presentation on your learning
Your presentation should highlight .
Brief summary of case study
Challenges
AWS Services used
Benefits after Cloud migration

Team One
Topic : https://aws.amazon.com/solutions/case-studies/qube-cinema/

Sudip Deula
Anughra Tamang
Manish Gurung
Sabina Dulal
Pawan Paudel

Team Two
Topic: https://aws.amazon.com/solutions/case-studies/silverblaze-case-study/

Ashok Tamang
Prasun Khatri
Sandesh Upreti
Sujata Chapagain

Team Three
Topic: https://aws.amazon.com/solutions/case-studies/eos-group-case-study/

Sumanraj Giri
Bhawana KC
Sandhya Upreti
Puja Tamang

Team Four :
Topic: https://aws.amazon.com/solutions/case-studies/10x-banking-case-study/

Saurav Paudel
Sumitra Kumari Shahi
Ranjita Kumari Singh
Bhesh Bahadur Chauhan

Team Five :

Topic:https://aws.amazon.com/solutions/case-studies/case-study-reveleer/?did=cr_card&trk=cr_card

Laxmi Dahal
Roshina Thapa
Susmita shrestha
Shivalal Bhattarai

Following team members were not able to present their case study 1.

# Group	Name	Attendance
1	Sudip Deula	A
2	Ashok Tamang	A
3	Sumanraj Giri	A
5	Laxmi Dahal	A

Case Study 2

For the fulfillment of the following practical works of chapter one and chapter two the following research and presentation task was assigned and evaluated.

> **Chapter one Practical One** : .Compare the services, pricing, and user interfaces offered by different providers
>
> **Chapter Two Practical Two**: Sign up for a SaaS application (e.g., Google Workspace, Microsoft 365, or Salesforce) then explore and document its features, benefits, and limitations.

Team : Team 1 to Team 5 were the same team members of case study 1 ,

New Team : Team 6 was formed with absent members of case study 2 .

Team One : Sign up for a SaaS application Google Workspace then explore and document its features, benefits, and limitations and present it in class
Team Two : Sign up for a SaaS application Microsoft 365 then explore and document its features, benefits, and limitations and present it in class
Team Three: Sign up for a SaaS application Salesforce then explore and document its features, benefits, and limitations and present it in class
Team Four: Compare AWS EC2, Azure Virtual Machines, and Google Compute Engine in terms of cost, performance, and scalability.
Team Five : Compare AWS VPC, Azure Virtual Network, and Google Cloud VPC, focusing on security, speed, and pricing.
Team Six : Compare AWS S3, Azure Blob Storage, and Google Cloud Storage based on pricing, features, and security and present it in class.

Status of Work of Case Study Two

Group		Assignment	Team Members	Status
	1	Sign up for a SaaS application Google Workspace then explore and document its features, benefits, and limitations and pres	Anughra Tamang Manish Gurung Sabina Dulal Sudip Deula Pawan Paudel	Not Done
	2	Sign up for a SaaS application Microsoft 365 then explore and document its features, benefits, and limitations and present it	Prasun Khatri Sandesh Upreti Sujata Chapagain Ashok Tamang	Done
	3	Sign up for a SaaS application Salesforce then explore and document its features, benefits, and limitations and present it in	Bhawana KC Sandhya Upreti Puja Tamang Sumanraj Giri	Done
	4	Compare AWS EC2, Azure Virtual Machines, and Google Compute Engine in terms of cost, performance, and scalability.	Saurav Paudel Bhesh Bahadur Chauhan Sumitra Kumari Shahi Ranjita Kumari Singh	Done
	5	Compare AWS VPC, Azure Virtual Network, and Google Cloud VPC, focusing on security, speed, and pricing.	Shivalal Bhattarai Roshina Thapa Susmita shrestha Laxmi Dahal	Done
Case study 1 Absentees		Compare AWS S3, Azure Blob Storage, and Google Cloud Storage based on pricing, features, and security and present it in cl	Sudip Deula Ashok Tamang Sumanraj Giri Laxmi Dahal	Not Done

3 . Use a PaaS provider (e.g., AWS Elastic Beanstalk, Azure App Service, or Google App Engine) to deploy a simple application, such as a “Hello World” web app.

Teacher will provide a video tutorial of the required work .

Chapter Three

- Guide students through the process of setting up a free-tier account for AWS, Azure, and GCP. Ask students to document the steps involved in setting up the free-tier account for each provider, including limitations (e.g., compute hours, storage, or data transfer limits).
- Set up cloud storage on AWS (S3), Azure (Blob Storage), and GCP (Cloud Storage) then upload a file (e.g., a text document or image) to each platform and access it through a browser or API.
- Perform a basic SQL query (e.g., SELECT, INSERT) on each cloud provider's database service.

1. To create a free account on cloud platforms like **AWS**, **Azure**, or **Google Cloud (GCP)**, you usually need a **dollar card** (international payment card). I explained this to the students and told them that if they are interested in learning cloud computing, they should make a dollar account. But, there is one option that doesn't need a dollar card — **AWS Educate**. It is the only free option available without a card. So, I helped the students to create their **AWS Educate accounts** and guided them on how to use it and explore the services available.
2. Guided student on completing the lab works of AWS S3 on AWS Educate account.
3. Guided Student on completing the lab work of AWS RDS in AWS Educate account .
4. Guided student on completing the AWS EC2 Lab work in AWS Educate account

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