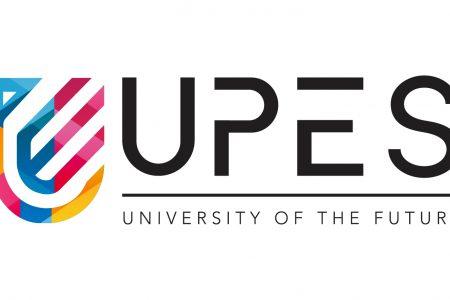
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**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES, DEHRADUN**

**BACHELOR OF TECHNOLOGY**

in

**COMPUTER SCIENCE**

Specialization in

**CLOUD COMPUTING & VIRTUALIZATION TECHNOLOGY**

**SEMESTER – VI**

**PROJECT REPORT OF**

**CLOUD APPLICATION DEVELOPMENT**

*Under the guidance of*

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*By:*

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**WEEK 2**

**SELECTING THE BEST CLOUD PLATFORM FOR THE PROJECT**

There are several cloud platforms that can be suitable for a carbon footprint emission project depending on the specific needs and requirements of the project. Some of the popular cloud platforms that can be considered are:

* Amazon Web Services (AWS): AWS provides a wide range of services such as compute, storage, database, analytics, and machine learning that can help in building a scalable and secure carbon footprint emission project.
* Microsoft Azure: Azure offers a broad set of cloud-based services, including data management, analytics, machine learning, and security that can be used to build a robust and scalable carbon footprint emission project.
* Google Cloud Platform (GCP): GCP provides a range of cloud-based services, including compute, storage, networking, and machine learning, that can be leveraged to build a scalable and secure carbon footprint emission project.

The choice of cloud platform depends on several factors such as cost, scalability, security, and compliance requirements. It is recommended to perform a thorough analysis of the project requirements and compare the features and pricing of each cloud platform before making a decision.

Based on the requirements and constraints of the carbon footprint emission project, I would recommend using Microsoft Azure cloud platform.

Here are some of the reasons why:

* Scalability: Microsoft Azure provides a highly scalable environment, which can easily accommodate the project's growing data and user base.
* Security: Microsoft Azure offers high-level security measures such as firewalls, encryption, and secure data centres, which are crucial for ensuring the protection of sensitive data.
* Data management: Azure offers a wide range of data management services such as SQL Database, Blob Storage, and Cosmos DB, which will make it easier to manage and store the project data.
* Integration with other Microsoft services: If the organization already uses Microsoft services like Office 365, Dynamics 365, or Power BI, then Azure would be a logical choice as it integrates seamlessly with other Microsoft products.
* Cost-effective: Microsoft Azure offers a pay-as-you-go pricing model, which means that the project can only pay for the resources they need, making it a cost-effective solution.
* Environmentally conscious: Microsoft has a commitment to reducing carbon emissions and has invested in sustainable data centres and energy-efficient technology, which aligns with the goal of the carbon footprint emission project.

Overall, Microsoft Azure provides a secure, scalable, cost-effective, and environmentally conscious solution that is well-suited for the carbon footprint emission project.