ECAP470: Cloud Computing

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Learning Outcomes

After this lecture, you will be able to

- ✓ Understand why cloud computing matters.

- ✓ Know about the issues in cloud.

Cloud Computing

- Cloud computing is a subscription-based delivery model that provides scalability, fast delivery and greater IT efficiencies.

- Overcomes many physical and financial barriers to aligning IT needs with evolving business goals.

- Has become a major force for business innovation across all industries.

Cloud Computing in Today's World

- Today, cloud computing has moved to the center of many organizations' technology strategies.

- Cloud computing's technological advantages– the ability to scale computing resources up and down, more reliable network connections and the ubiquity of big data– makes it appealing to organizations of all sizes.

Cloud Computing in Today's World

- And the cloud provides not only delivery of software services, but data storage as well.

- The growth and flexibility offered by cloud infrastructure has enabled organizations to explore the full potential of data assets in a fast and cost-effective manner.

Why Cloud Computing Matters

- Technology has evolved fast over the last few years.

- People used to run businesses in different ways before the invention of cloud computing.

- Before businesses started relying on it, managers had to run applications from servers on their premises. Some even had to hire extra IT experts to help them create their data centres. This reduced their profit margins because they had to pay them a lot. However, things have changed nowadays.

Why Cloud Computing Matters

For Business

- Cost-Effectiveness.

- Digitalizes Business.

- Offers Better Data Backups and Recovery.

- Seamless Scalability.

- Flexibility.

- Increasing Business Competitiveness.

- Geographical Dispersion.

Why Cloud Computing Matters

- For Developers.

- For IT Departments.

- For End-Users.

- Benefit of Group Collaboration for Both Individuals and Organizations.

- For Everyone.

- For Innovation.

- For Improving Service Delivery.

- For Digital Transformation.

Issues in Cloud Computing

- Operational Complexity.

- Lack of Customization.

- Reliance on Technology.

- Data Security and Privacy.

- Performance.

- Dealing with Multi-Cloud Environments.

Issues in Cloud Computing

- Cloud Migration.

- Cloud Integration.

- Unauthorised Service Providers.

- Hacking of Brand.

- Cloud Management.

- Transparency of Service Provider.

- Sustainability.

Getting Into the Cloud

- Take it slow and prepare for roadblocks.

- Understand that even tech-savvy companies struggle with cloud business.

- Locate the services for each part of your business.

- Decide the level of cloud services that are right for your business.

Getting Into the Cloud

- Have a Plan.

- Be Creative.

- Evaluate the Options.

- Just Go For It.