

MINNESOTA TECH FOR SUCCESS



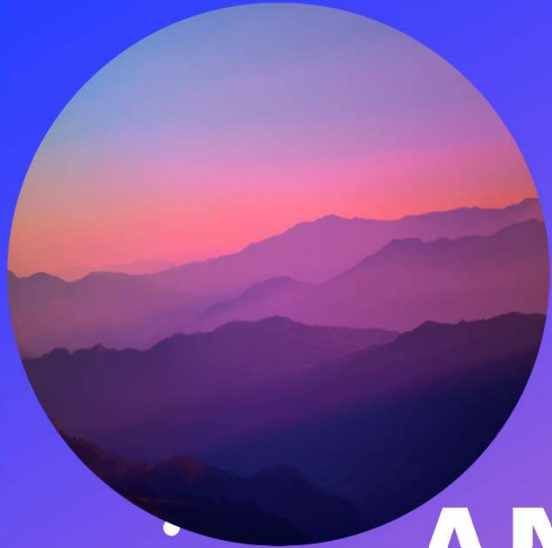
Week 13-15: Cloud
Computing

3/6/2024

Agenda

- **Announcements**
- **Classroom (25 min)**
 - Recap Uses of the Cloud
 - How to Use Cloud Services
 - Intro to Microsoft Azure
- **Break (5 min)**
- **Warehouse (1.5 hrs)**
 - Recycling





ANNOUNCEMENTS

Week 15



Announcements for 3/6

- **Calendar**

- Next session: **Wednesday, 3/13/2024**
- Week 13-15: Cloud Computing – Feb. 21st , 28th , & Mar. 6th
- Week 16-18: Database Management and Troubleshooting – Mar. 13th, 27th, & Apr. 3rd

Values

- **R**espect
- **A**ccountability
- **I**mprovement
- **S**teadfast
- **E**ncouragement



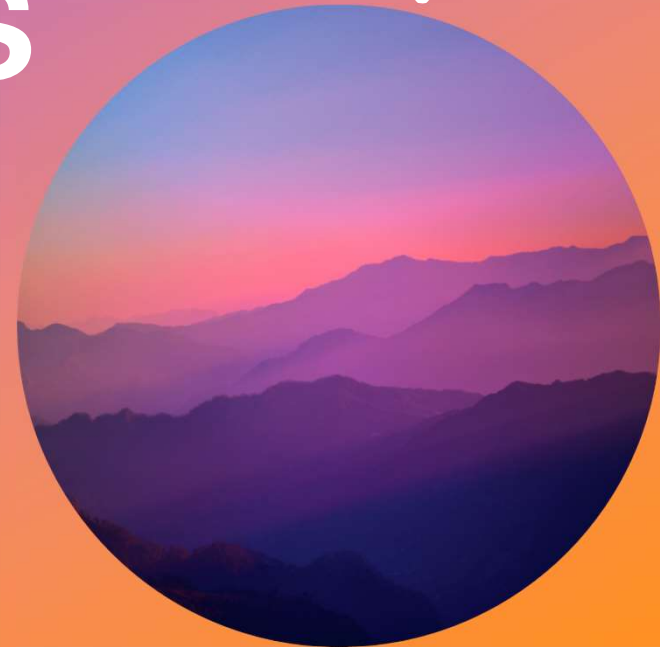
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MODULE 3: ADVANCED IT CONCEPTS

Cloud Computing



Cloud Computing: Objectives

1. What is cloud computing?

- Explanation of cloud computing, its advantages, and how it's used to store data and run applications remotely.

2. Introduction to major cloud providers

- Overview of major cloud service providers such as Amazon Web Services (AWS), Microsoft Azure & Google Cloud.

3. Everyday uses of the cloud

- Examples of common cloud-based services like email, file storage, and streaming.

4. How to use cloud services

- Practical guidance on accessing and using cloud services.

RECAP: EVERYDAY USES OF THE CLOUD



Recap: Common Business Uses of the Cloud

- Production migration
- Traffic Bursting
- Backup & Disaster recovery
- Web Hosting
- App development and testing
- Proof of concept
- Big Data and data manipulation

Recap: Business Applications: CRM

- CRM – Customer Relationship Management
 - process in which an organization administers its interactions with customers using data analysis to study information
- CRM systems allow organizations to learn more about their target audiences and how to cater to their needs
- Goal: Retain customers, drive sales growth

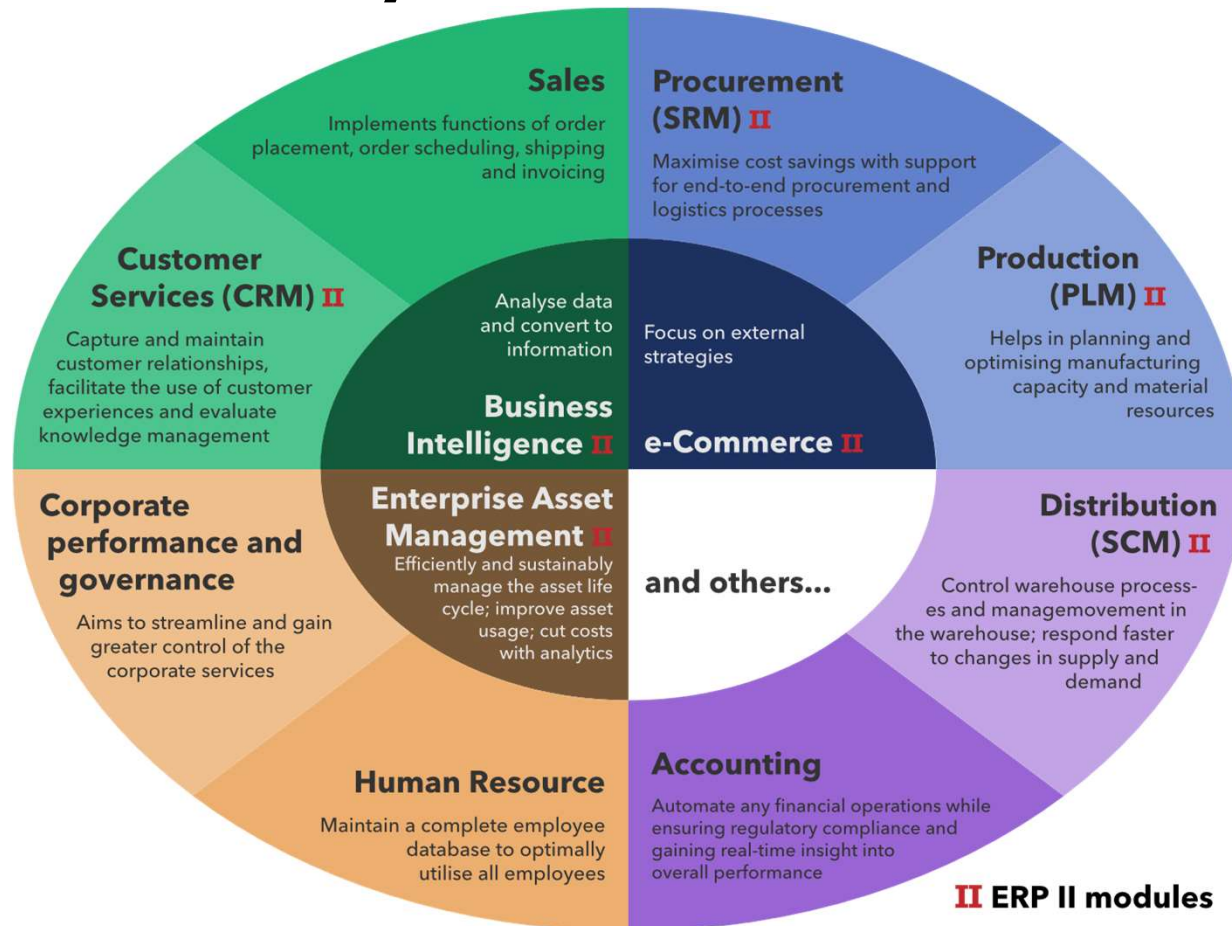


Recap: Business Applications: ERP

- **ERP** - enterprise resource planning
 - the management of all the information and resources involved in a company's operations by an integrated computer system
- Can run an organization from a single software platform. Once the sole property of large enterprise, the cloud now lets small to midsize businesses take advantage of ERP's benefits



Recap: ERP System Overview



Recap: Everyday End-user Uses of the Cloud

- **SaaS**

- Entertainment: Netflix, Spotify
- Social Network: Facebook, X (Twitter), Instagram, TikTok
- Assistant: Siri, Alexa, Google Assistant, Bixby
- Messaging: WhatsApp, Messenger
- Productivity: Microsoft 365, Google Workspace,

- **IaaS**

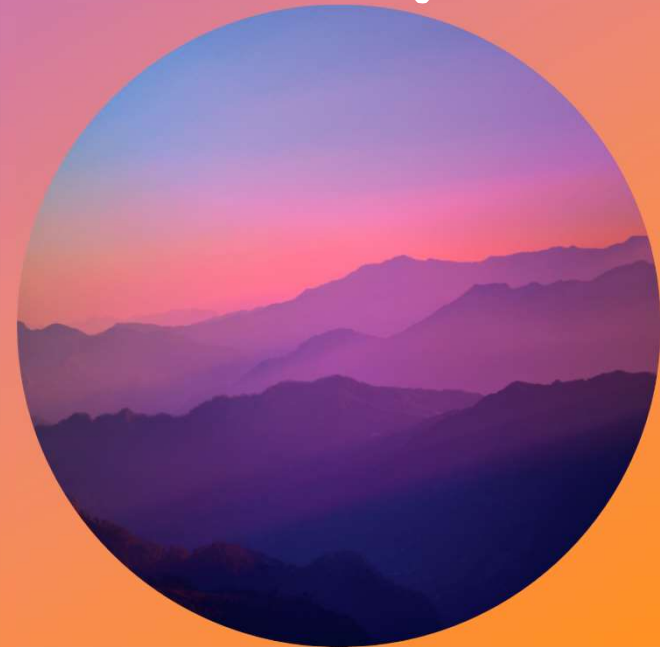
- VMware, IBM Cloud, AWS

- **PaaS**

- AWS, GCP, Azure

INTRODUCTION TO MAJOR CLOUD PROVIDERS

Microsoft Azure



MICROSOFT AZURE

WEEK 13-15: CLOUD COMPUTING



Azure Offers

- **Products**

- 200+
- AI + machine learning, Analytics, Compute, Containers, Databases, DevOps, Developer tools, Hybrid + multicloud, Identity, Integration, Internet of Things (IoT), Management and governance, Media, Migration, Mixed reality, Mobile, Networking, Security, Storage, Web, Virtual desktop infrastructure

- **Azure Certification**

- 18 certifications
- Examples: Azure Security Engineer Associate, DevOps Engineer Expert, Azure AI Engineer Associate

More at <https://query.prod.cms.rt.microsoft.com/cms/api/am/binary/RE4J5ea>

HOW TO USE CLOUD SERVICES



How to Use Cloud Services

- **SaaS**

- Most common – used on most apps on mobile devices & PCs
- Open Browser/open app > Access website (if applicable) > Login > Use
- Demo: Atlassian Jira

- **IaaS**

- Provider hosts, maintains, and updates backend infrastructure – compute, storage, networking, virtualization
- Open Browser > Login > access panel (ie. Cpanel) > configure and monitor settings > use
- Demo: Hostinger

- **PaaS**

- Commonly accessible through a website portal/landing page
- Access Website> login > select application> develop & test > deploy/use
- Demo: Microsoft Azure



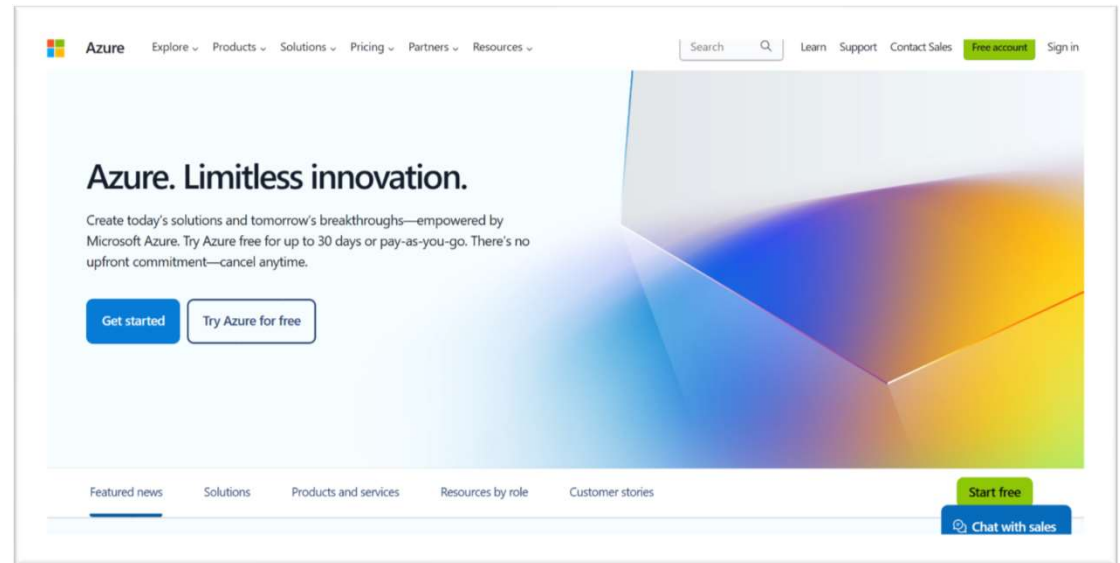
ACTIVITY

Explore Azure



Explore Azure

1. Navigate to azure.microsoft.com
2. Explore the website
3. Search for and learn more about products & services
4. Bonus: find official Microsoft Azure certification info



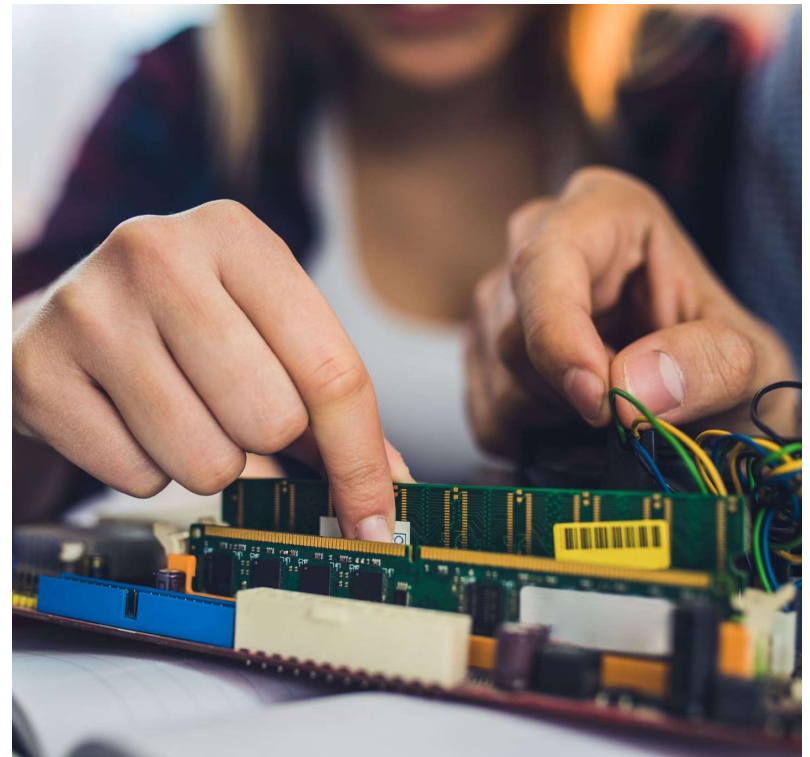


WAREHOUSE



Warehouse Activity

- 1:30-3:00pm
- Parting/recycling



BREAK

5 minutes

