Cloud Computing Services

By: Kirti Patel, Noah Funtanilla, Josh Bertrand

Infrastructure as a Service (IaaS)

https://azure.microsoft.com/en-us/overview/what-is-iaas/

- The IT infrastructure is cloud based:
    - Servers
    - Virtual machines
    - Networking
- The service provider can pick and choose which service they want and how long they want it
- Don't have to care for physical hardware
- Good for Web Application development
    - Storage
    - Web and app servers
    - Networking resources
- Public cloud
- Examples of IaaS with Public Cloud:
    - Microsoft Azure

Platform as a Service (PaaS)

- Used for developing, testing, delivering, and managing software apps
- Builds on virtualization technology (scale up/down)
- Integrates web services and databases
- Supported by:
  - Microsoft Azure
  - AWS Elastic Beanstalk
- Advantages:
  - Cost efficient
  - Promotes customization
  - Less code
- Limitations:
  - Data Security
  - Runtime issues

SaaS (Software as a Service)

- Software as a service are full software applications available on the web
- Examples of popular SaaS implementations include:
  - Microsoft Office suite
  - Google application suite
- SaaS is a great option for both platforms because
  - Allows easier file sharing and cooperation between team members
  - Provides data backup
  - Accessible on any device
- Public/Private/Hybrid
  - For general use, a public cloud is best.
  - For private business use, hybrid has many advantages.
- MS Azure offers Virtual Machines that can be created and used through the Azure platform. This particular service is on the public cloud.