Cloud Services
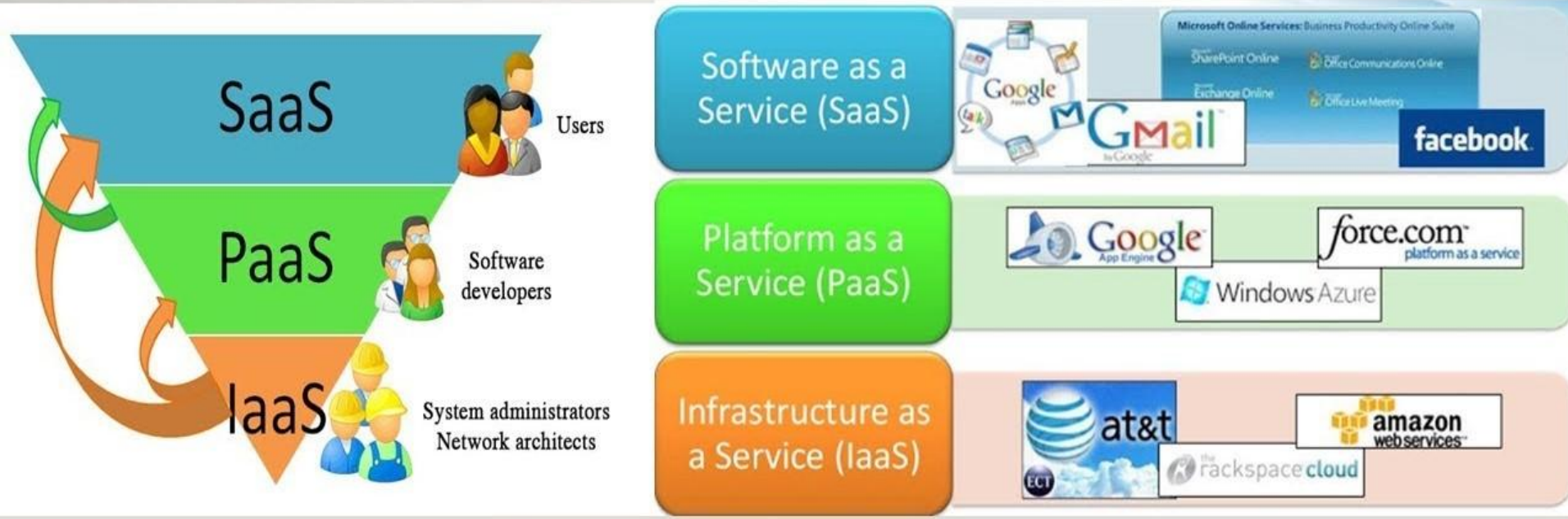
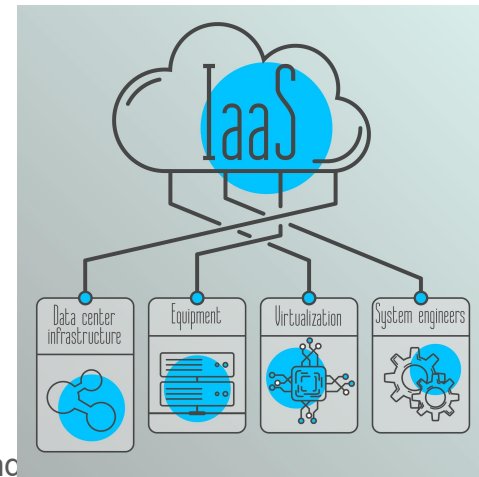## IaaS, Paas, Saas

IaaS: Infrastructure as a Service

- What is it?
  - Remote data centers for storage, networking, and servers.
  - Infrastructure that can be purchased based on usage, similar to a utility bill.
- Examples:
  - Microsoft Azure, Google Web and Storage, Amazon Web Services (cloud computing)
- Best for:
  - A situation which requires a higher amount of user storage than is available on-site.
  - A business that has variable operations (high v low service traffic), and requires variable computing and storage capabilities.
- A business at the North Pole might use:
  - Azure Virtual Machines: https://azure.microsoft.com/en-us/services/virtual-machines/#pricing
  - Azure Files: https://azure.microsoft.com/en-us/services/storage/files/
- Azure files as - a hybrid cloud type - would be the best choice so that information could be stored remotely and shared between locations as needed.

PaaS: Platform as a Service

PaaS is

- Complete development and deployment in the cloud
- On demand environment for testing, developing, managing, and delivering software example

An example of Paas

- AWS Elastic Beanstalk

Reasons why AWS Elastic Beanstalk would be aPaas cloud type

- Easy to use
- Simply upload your code, and the service takes of the rest
- Pay as you go

AWS Elastic Beanstalk is a public cloud type

AWS Elastic Beanstalk

SaaS: Software as a Service

What is Saas: SaaS is a service provided from Software built by a third party businesses that is used by consumers or businesses to perform specific tasks.

SaaS Examples, General Market

SaaS For Enterprises

SaaS For Consumers

How Is SaaS Used

Saas can be used as a Public, Private, or Hybrid type service, as consumers would use a public service by third parties(Facebook, Youtube) and businesses could use public services(github) and also privately built in house software(Office365). In some cases a business could use software that is used by its consumers and its own employees to provide a service to both or connect both sides to complete transactions between the two (Steam).

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