Public vs. Private vs. Hybrid
CLOUD INFRASTRUCTURE

PUBLIC CLOUD is a set of hardware, networking, storage, services, applications, and interfaces owned and operated by a third party for use by other companies or individuals. Microsoft Azure, Amazon Web Services, Google Cloud Platform are examples of public cloud.

PROS:

Offers the greatest level of efficiency in shared resources.

Supports multiple customers

Provides short-term cost savings (users pay only for the service they use.)

Suited for less confidential information

CONS:

Less secure (has a lower level of security and may be more susceptible to hacks.)

Can be unrealiabe (Ex: Public cloud outages make it difficult for users to access the data.)

Can be costly when moving large amounts of data in and out or within public cloud.

VS.

PRIVATE CLOUD is a set of hardware, networking, storage, services, applications, and interfaces owned and operated by an organization for the use of its employees, partners, and customers. VMWare is an example of a private cloud.

PROS:

Offers the greatest level of control

Supports dedicated customes (Ex: specific organization or enterprise)

Can be customized to fit the needs of specific organization.

CONS:

High cost (private cloud requires the companies to purchase and maintain all the software and infrustructure.)

Requires IT expertise when some companies may not have the infrastructure to completely build out and manage a custom private cloud within their own IT department.

VS.

HYBRID CLOUD is a combination of a private cloud combined with the use of public cloud services where one or several touch points exist between the environments. HP, Fujitsu, IBM are examples of hybrid clouds.

PROS:

Flexible and scalable (enterprises have the ability to mix and match for the ideal balance of cost and security.)

Cost-effective (Businesses can take advantage of the cost-effectiveness of public cloud computing, while also enjoying the security of a private cloud.)

CONS:

Have to keep track of multiple different security platforms and ensure that all aspects of your business can communicate with each other.

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Source:
http://mashable.com/2015/04/02/public-private-hybrid-cloud/#e2gdmLMG8iqD
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