

2. Cloud Computing Fundamentals

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Cloud Computing: (I think its better to create my own definition)

#5 Criteria to be a cloud

- 1. On-Demand Self Service:** Can Provision capabilities as needed without requiring human interaction.
- 2. Broad Network Access:** Capabilities are available over the network and access through standard mechanism.
- 3. Resource Pooling:** There is a sense of location independence no control or knowledge over the exact location of the resources. Resources are pooled to serve multiple consumers using a multi-tenant model.



1 On-Demand Self-Service

Provision and Terminate using a UI/CLI without human interaction.

2 Broad Network Access

Access services over any networks, on any devices, using standard protocols and methods.

3 Resource Pooling

Economies of scale, cheaper service.

4 Rapid Elasticity

Scale UP (OUT) and DOWN (IN) automatically in response to system load

5 Measured Service

Usage is measured. Pay for what you consume.

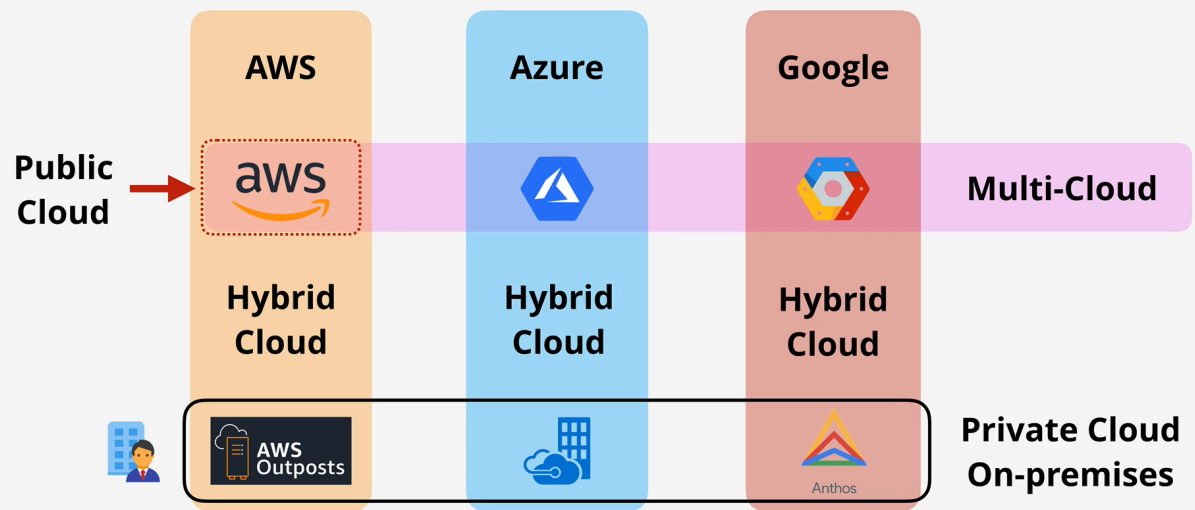
Public vs Private vs Hybrid vs Multi Cloud



Public vs Private vs Multi vs Hybrid

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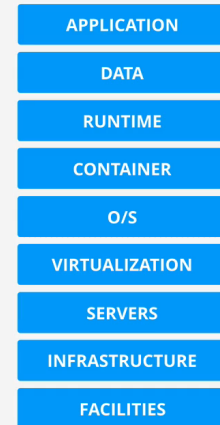
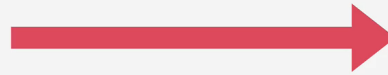
Hybrid cloud is not a public cloud plus legacy on-premises cloud.

Hybrid cloud is public + on premises cloud from same company at least that's what I think



infra stack

- Infrastructure Stack



Software As A Service (SaaS)

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On-Premises	DC Hosted	IAAS	PAAS	SAAS
APPLICATION	APPLICATION	APPLICATION	APPLICATION	APPLICATION
DATA	DATA	DATA	DATA	DATA
RUNTIME	RUNTIME	RUNTIME	RUNTIME	RUNTIME
CONTAINER	CONTAINER	CONTAINER	CONTAINER	CONTAINER
O/S	O/S	O/S	O/S	O/S
VIRTUALIZATION	VIRTUALIZATION	VIRTUALIZATION	VIRTUALIZATION	VIRTUALIZATION
SERVERS	SERVERS	SERVERS	SERVERS	SERVERS
INFRASTRUCTURE	INFRASTRUCTURE	INFRASTRUCTURE	INFRASTRUCTURE	INFRASTRUCTURE
FACILITIES	FACILITIES	FACILITIES	FACILITIES	FACILITIES