# ECAP470: Cloud Computing

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# Learning Outcomes

**After this lecture, you will be able to**

- ✓ understand the characteristics of cloud computing,

- ✓ know the issues and challenges in cloud computing.
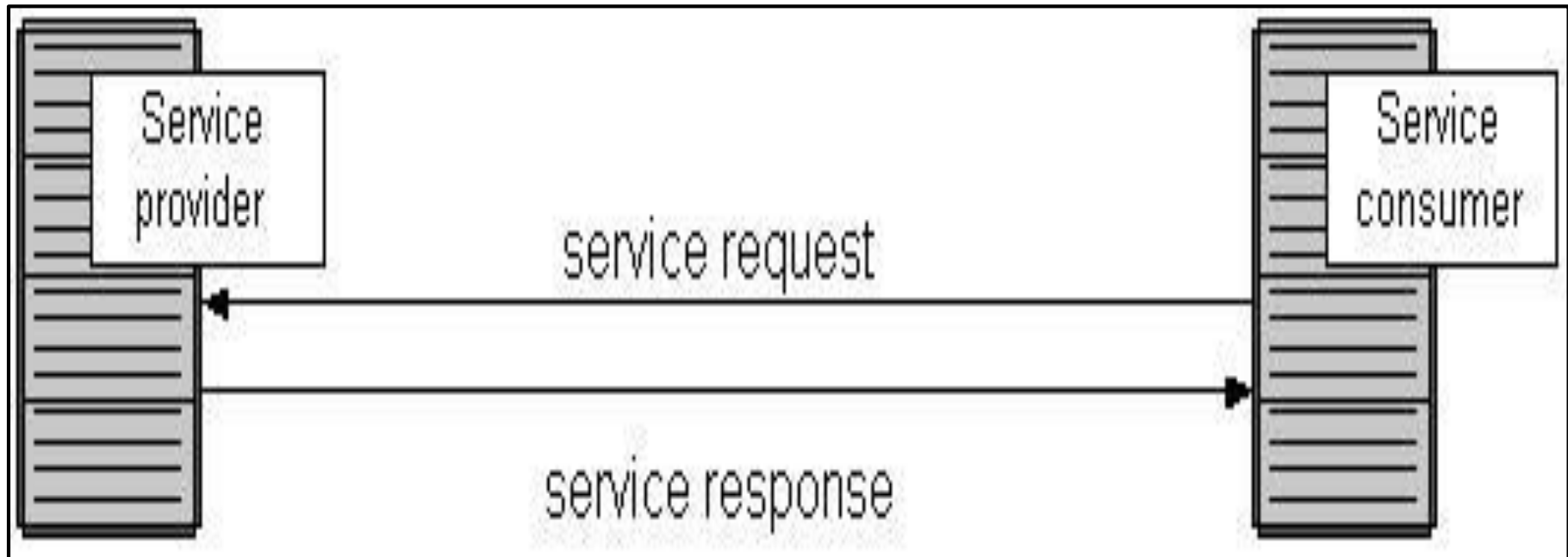
# Characteristics of Cloud Computing

- On-demand Self-service

- Broader Network Access

- Shared Resource Pooling

- Rapid Elasticity

- Measured Service

- Performance

# Characteristics of Cloud Computing

- Reduced Costs

- Outsourced Management

- Multitenancy

- Service Oriented Architecture (SOA)

# Characteristics of Cloud Computing

Service Oriented Architecture (SOA): SOA is essentially a collection of services which communicate with each other.

# Issues of Cloud Computing

1. Security and Privacy

2. Cost management and containment

3. Lack of resources/expertise

4. Governance/Control

5. Compliance

6. Managing multiple clouds

7. Performance

# Challenges of Cloud Computing

1. Service Quality

2. Interoperability

3. Availability and Reliability

4. Portability

5. Cloud Integration

6. Vendor Lock-in

# Issues of Cloud Computing

8. Building a Private Cloud

9. Segmented Usage and Adoption

10. Migration

That's all for now…