

Quiz 1: Cloud Computing and Distributed Systems

Due May 25 at 11:59pm**Points** 100**Questions** 5**Available** May 18 at 8am - May 25 at 11:59pm 8 days**Time Limit** 60 Minutes

This quiz was locked May 25 at 11:59pm.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	20 minutes	90 out of 100

Score for this quiz: **90** out of 100

Submitted May 25 at 10:54am

This attempt took 20 minutes.

Question 1

20 / 20 pts

What are the seven layers in the OSI protocol stack?

Your Answer:

1. Application Layer
2. Presentation Layer
3. Session Layer
4. Transport Layer
5. Network Layer
6. Data Link Layer
7. Physical Layer

Question 2

10 / 20 pts

What assumption underlies the argument for doing retransmission of lost packets "end-to-end" instead of "hop-to-hop"?

Your Answer:

That the probability of loss is small enough that with many hops most of the IP packets will transfer.

The end-to-end argument assumes that the probability of message loss on any given hop is low, so the cost of providing point-to-point retransmission is not justified.

Question 3

20 / 20 pts

What are the three adoption challenges for an organization wishing to move into the cloud?

Your Answer:

1. Availability: Will the cloud service be readily obtained in the future
2. Data Lock-In: Will the data be able to be restored from the cloud service
3. Data Confidentiality and Auditability: is that data securely stored and able to be accessed and accounted for.

Question 4

20 / 20 pts

What are the five growth challenges for an organization wishing to move into the cloud?

Your Answer:

1. Data Transfer and Bottlenecks: can data be transferred quickly between servers and to clients/users
2. Performance Unpredictability
3. Scalable Storage: Will more/less storage be available and at what cost
4. Bugs in Large Distribution Systems

5. Scaling Quickly: Can the cloud sustain quick growth/shrinking on demand

Question 5**20 / 20 pts**

What are the two policy and business challenges for an organization wishing to move into the cloud?

Your Answer:

1. Reputation Fate Sharing: Does the service have a reputation? I think another good one to add is if the reputation is backed by other companies and organizations (for example the DoD requires the use of Microsoft Exchange for emails)
2. Software Licensing: Is it a pay-per-use, one-time licensing fee, or is the software free and open-source.

Quiz Score: **90** out of 100