



Quiz Submissions - Week 2 Weekly Quiz

REGINA LIU YIXUAN _ (username: reginaliu.2019)

Attempt 1



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Submission View

Your quiz has been submitted successfully.

Question 1

In the life of a software process, which of the following state is not a valid process state?

- ☐ ready
-  ☒ running
- ☐ blocked
-  ☐ active

Question 2



How many usable hosts are there in 192.168.1.0/24? (exclude network and broadcast addresses)

- ☐ 126
-  ☐ 254
-  ☒ 510
- ☐ 1022

Question 3

http://www.somewhere.com/443

Which of the following statement is correct?

- ☐ hostname is www.somewhere.com and protocol is https
- ☐ protocol is https and port is 443
-  ☒ protocol is http and port is 443
-  ☐ protocol is http and port is 80

Question 4

Which of the following is correct about a layered architectural style?

- ☐ Layered architecture style describes the physical separation of software components
- ☐ Open layers cannot bypass
- ☐ Each layer is dependent on the layer beside it
- ✓ ☒ Each layer is dependent on the closed layer below it

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Question 5

Which of the following is correct about distributed systems?

- ☐ The server is the component that always first initiates the connection to the client.
- ☐ The client usually create a socket and use a well-known port (e.g., port 80) locally to connect to the server
- ✗ ☒ The client does not need to know the port the server is listening on.
- ➡ ☐ In the network exercise, the reverse proxy opens two different ports to listen to browser connections and to connect to the web application.

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Question 6

What one of the following is correct about a proxy server?

E.g., For a browser accessing a web app through a proxy server, the browser is the client and web app is the server.

- ☐ A forward proxy hides the identity of the external servers
- ☐ A reverse proxy encapsulates the internal servers from the internal clients
- ☐ A forward proxy encapsulates the internal servers from the external clients.
- ✓ ☒ A reverse proxy hides the identity of the internal servers

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Question 7

Which one of the following is correct about basic networking concepts? Choose the best answer.

- ☐ For a network address of 192.168.0.0 and subnet mask 255.255.0.0, the host bits is 8 bits.
- ✓ ☒ The DNS contains a list of readable names and the corresponding IP addresses
- ☐ The DHCP protocol allows a client to learn the mapping between IP and MAC address
- ☐ The DHCP protocol allows a client to learn its MAC address

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Question 8

Traffic from the insecure internet zone need to enter the DMZ first before accessing the internal zone.

What of the following statement is **INCORRECT** about the demilitarized zone (DMZ) and internal zone?

- ☐ DMZ provides network segmentation to create a space for traffic to be organized between the insecure internet zone and the internal zone.
- ➡ ☐ Hosts in the DMZ can easily access any other services in the internal network.
- ✗ ☒ DMZ is a network with an advanced security layer to restricting access to sensitive data and servers in the internal zone.
- ☐ DMZ prevents attackers from performing the reconnaissance work they carry out the search for potential targets in the internal zone.

Question 9

Which of the following is **CORRECT** when we compare virtual machines (VMs) against containers? Choose the best answer.

- ☐ Only one application (e.g., web app) can be running in one VM.
- ☐ Containers use more computing resources than VMs
- ☐ VMs is less isolated in terms of security than containers
- ✓ ☒ VMs start slower than containers

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Question 10

Which of the following is correct about multi-tenancy design?

- ☐ A shared-everything multi-tenant design is considered more isolated in terms of computing resources than a shared-nothing design.
- ☐ Multi-tenancy design refers to the software design to serve multiple users of the same organization/tenants
- ☐ A Shared-everything multi-tenant design uses separate VMs per tenant for the application layer.
- ✓ ☒ A shared-everything multi-tenant design uses less resources than a shared-nothing design.

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Attempt Score:

Overall Grade (first attempt):

Done