

Web Infrastructure - End of Module Quiz Results for Alain Michael Muhirwa

⚠️ Answers will be shown after your last attempt

Score for this attempt: 45 out of 60

Submitted Apr 16 at 11:03am

This attempt took 44 minutes.



Question 1

1 / 1 pts

What is the role of the "Content-Type" header in a REST API request?

- ☐ It determines the cache control policy for the request
- ☒ It defines the format of the request payload
- ☐ It specifies the HTTP method to be used
- ☐ It provides authentication credentials



Question 2

1 / 1 pts

Your API resource does not allow deletion, and a client application attempted to delete the resource. What HTTP response code should you return?

- ☐ 409 - Conflict
- ☐ 400 - Bad Request
- ☐ 406 - Not Acceptable
- ☒ 405 - Method Not Allowed



Question 3

1 / 1 pts

Which HTTP method should you use to *partially* update an existing resource in a REST API?

- ☐ PUT
- ☐ POST
- ☒ PATCH
- ☐ GET



Question 4

1 / 1 pts

Which HTTP verb is used in a CORS preflight request

- ☐ PUT
- ☐ GET
- ☒ OPTIONS

Preflight request

It is an HTTP request of the **OPTIONS method**, sent before the request itself, in order to determine if it is safe to send it. It is only after the server has sent a positive response that the actual HTTP request is sent.

- ☐ POST



Question 5

1 / 1 pts

What does the abbreviation *REST* stand for?

- ☒ Representational state transfer
- ☐ Represent state transfer
- ☐ Representational stateless Transfer Protocol
- ☐ It's not an abbreviation



Question 6

1 / 1 pts

Which of the following HTTP Status codes means NOT MODIFIED, used to reduce network bandwidth usage in case of conditional GET requests?

- ☒ 304

Explanation : HTTP Status Code 304 means NOT MODIFIED, used to reduce network bandwidth usage in case of conditional GET requests.

- ☐ 200
- ☐ 202
- ☐ 201



Question 7

1 / 1 pts

Which HTTP method do we use to make an HTTP request to update an existing resource?

- ☐ DELETE
- ☐ POST
- ☐ UPDATE
- ☒ PUT



Question 8

1 / 1 pts

What would you enable to allow a browser on another site to make an AJAX request to your API?

- ☐ REST
- ☐ HTTP
- ☐ OPTIONS
- ☒ CORS



IncorrectQuestion 9

0 / 1 pts

Which REST constraint allows for caching, routing, and other systems between the client and server?

- ☐ Cacheable
- ☐ Stateless
- ☒ Layered System
- ☐ Client-Server



Question 10

1 / 1 pts

Which of the following HTTP Status codes means CONFLICT, states conflict situation while executing the method for example, adding duplicate entry?

- ☐ 401
- ☐ 404

☐ 402

☒ 409



Question 11

1 / 1 pts

What protection does a JSON Web Token (JWT) offer to mitigate tampering with its contents?

☒ a signature

☐ encrypted payload

☐ encoded payload

☐ transport over SSL



Question 12

1 / 1 pts

Which of the following is not a REST API request/response component?

☐ request URI

☐ request message header

☒ None of the above

☐ request message body



Question 13

1 / 1 pts

Which of the following HTTP method should be read only in nature

☒ GET

☐ PUT

☐ DELETE

☐ POST



IncorrectQuestion 14

0 / 1 pts

API traffic that is entirely internal to your organization is normally called _____?

☐ inbound traffic

- ☐ internal traffic
- ☒ intra-organization traffic
- ☐ internal API



Question 15

1 / 1 pts

Which HTTP method do we use to make an HTTP request to create a new resource?

- ☐ PUT
- ☐ CREATE
- ☐ GET
- ☒ POST



Question 16

1 / 1 pts

What is one benefit of server-side caching in APIs

- ☐ It offers better security
- ☒ It reduce load on servers
- ☐ It improves uptime
- ☐ Mobile app work better



Question 17

1 / 1 pts

What is the best approach for requesting JSON instead of XML from an API?

- ☐ Use the Content-Type header
- ☐ Add .json to the URL
- ☒ Use the Accept header
- ☐ APIs do not use XML



Question 18

1 / 1 pts

Which of the following is NOT a constraint of RESTful architecture?

- ☐ Stateless
- ☐ Cacheable
- ☒ Service Orchestration
- ☐ Client-Server



Question 19

1 / 1 pts

What is the purpose of the "Authorization" header in a REST API request?

- ☒ It provides authentication credentials for accessing protected resources
- ☐ It provides additional metadata about the request
- ☐ It determines the cache control policy for the request
- ☐ It specifies the format of the request payload



Question 20

1 / 1 pts

How do you access data from a REST API?

- ☐ By downloading the entire database from the web service
- ☐ By sending an email request to the web service administrator
- ☒ By sending an HTTP request to a specific URL and processing the response
- ☐ By using FTP to access the server files directly



IncorrectQuestion 21

0 / 1 pts

What is the recommended cryptographic algorithm for the Secure Shell Transport Layer?

- ☒ Twofish 128
- ☐ aes 192
- ☐ blowfish
- ☐ aes 128



Question 22

1 / 1 pts

Which one of the following protocol can be used for login to a shell on a remote host except SSH?

- ☒ both telnet and rlogin
- ☐ telnet
- ☐ rlogin
- ☐) none of the mentioned



Question 23

1 / 1 pts

SSH-2 does not contain _____

- ☐ user authentication layer
- ☐ transport layer
- ☒ physical layer

Explanation: SSH2 is a more secure, portable and efficient version of SSH that includes SFTP, which is functionally similar to FTP, but is SSH2 encrypted.

- ☐ connection layer



Question 24

1 / 1 pts

Secure shell (SSH) network protocol is used for _____

- ☐ remote command-line login
- ☐ secure data communication
- ☒ all of the mentioned
- ☐ remote command execution



Question 25

1 / 1 pts

Which standard TCP port is assigned to contact SSH servers?

- ☒ port 22

☐ port 23

☐ port 21

☐ port 24



Question 26

1 / 1 pts

Which standard TCP port is assigned for contacting SSH servers

☒ port 22

☐ port 21

☐ port 23

☐ port 24



Question 27

1 / 1 pts

SSH can be used in only _____

☐ Windows

☐ None of the mentioned

☒ Both Unix-like and Windows System

☐ Unix-like Operating System



IncorrectQuestion 28

0 / 1 pts

Which one of the following is a file transfer protocol using SSH?

☐ All of the mentioned

☐ Rsync

☒ SFTP

☐ SCP



Question 29

1 / 1 pts

Which one of the following authentication methods is used by SSH?

- ☐ host based
- ☐ public-key
- ☐ password
- ☒ all of the mentioned



IncorrectQuestion 30

0 / 1 pts

Which one of the following features was present in SSH protocol, version 1?

- ☐ password changing
- ☐ support for public-key certificates
- ☐ none of the mentioned
- ☒ periodic replacement of session keys



IncorrectQuestion 31

0 / 1 pts

What is the command to restart an Nginx server?

service nginx restart



Question 32

1 / 1 pts

Programs that request data from servers is called

- ☒ clients
- ☐ hosts
- ☐ programs
- ☐ users



Question 33

1 / 1 pts

Web Servers respond to web-related request.

- ☒ True
- ☐ False



IncorrectQuestion 34

0 / 1 pts

Which command do we use in Nginx?

- ☐ Reload
- ☐ All of the above
- ☐ Quit
- ☐ Reopen
- ☒ Stop



IncorrectQuestion 35

0 / 1 pts

What is the work of Nginx?

- ☐ All of the mentioned
- ☐ Work as mail proxy and HTTP cache.
- ☐ Work as a load balancer
- ☒ To display dynamic content on the web



Question 36

1 / 1 pts

Identify the correct order in which the following actions take place in an interaction between a web browser and a web server

1. The web browser requests a web page using HTTP

2. The web browser establishes a TCP connection with the web server

3. The web server sends the requested webpage using HTTP.

4. The web browser resolves the domain name using DNS

☐ 1, 2, 3, 4

☐ 4, 3, 2, 1

☐ 3, 2, 1, 4

☒ 4, 2, 1, 3



Question 37

1 / 1 pts

Web Servers help in Centralised File Saving

☐ True

☒ False



IncorrectQuestion 38

0 / 1 pts

What is the command to start the Nginx server?

service nginx start



Question 39

1 / 1 pts

What module is used for defining groups in Nginx

☐ None of the above

☐ ngx-http_upstream_module

☒ ngx_http_upstream_module

☐ ngx_http_upstream



Question 40

1 / 1 pts

Which of the following is the official website of Nginx?

- ☐ Nginx
- ☒ nginx.org
- ☐ Nginx.com
- ☐ Ngnix.in



Unanswered Question 41

0 / 1 pts

What is the name of the guest facilitator that discussed, Firewall, HTTPS, and SSL?



Question 42

1 / 1 pts

Which encryption method is commonly used in SSL/TLS to secure data transmission?

- ☒ RSA
- ☐ SHA-1
- ☐ DES
- ☐ AES



Question 43

1 / 1 pts

Which certificate authority is responsible for issuing and validating SSL/TLS certificates for websites?

- ☐ CA/Browser Forum
- ☒ Certificate Authority (CA)
- ☐ IANA
- ☐ ICANN



Question 44

1 / 1 pts

What is the primary purpose of SSL/TLS in web security?

- ☐ To enhance Phishing of website
- ☒ To encrypt data transmitted between a web server and a browser
- ☐ To secure user authentication
- ☐ To prevent SQL injection attacks



Question 45

1 / 1 pts

What does SSL stand for in the context of web security?

- ☐ Secure Sockets Link
- ☐ Strong Security Layer
- ☐ Secure System Link
- ☒ Secure Socket Layer



Question 46

1 / 1 pts

What is the main advantage of using HTTPS over HTTP?

- ☐ Stronger password policies
- ☐ Improved server performance
- ☐ Faster data transmission
- ☒ Encrypted data transmission



IncorrectQuestion 47

0 / 1 pts

A stateful firewall maintains a _____, which is a list of active connections.

- ☐ Bridging table
- ☒ State table
- ☐ Routing table
- ☐ Connection table



Question 48

1 / 1 pts

What does the term "DMZ" stand for in the context of firewalls?

- ☐ Direct Monitoring Zone
- ☐ Data Management Zone
- ☒ Demilitarized Zone
- ☐ Danger Management Zone



Question 49

1 / 1 pts

Which firewall configuration approach involves creating rules based on specific IP addresses and port numbers?

- ☐ Black-listing
- ☒ White-listing
- ☐ Stateful filtering
- ☐ Packet inspection



IncorrectQuestion 50

0 / 1 pts

A firewall needs to be _____ so that it can grow proportionally with the network that it protects.

- ☐ Robust
- ☐ Expansive
- ☐ Fast
- ☒ Scalable



Question 51

1 / 1 pts

Which of the following is / are the types of firewall?

- ☐ Screen Host Firewall
- ☒ Packet Filtering Firewall
- ☐ Dual Homed Gateway Firewall
- ☐ Dual Host Firewall



IncorrectQuestion 52

0 / 1 pts

What tells a firewall how to reassemble a data stream that has been divided into packets?

- ☐ The header checksum field in the packet header
- ☐ The destination IP address
- ☒ The number in the header's identification field
- ☐ The source routing feature



Question 53

1 / 1 pts

Network layer firewall works as a _____

- ☐ Content filter
- ☐ Frame filter
- ☐ Virus filter
- ☒ Packet filter



Question 54

1 / 1 pts

Which type of firewall intercepts communication between the client and server, acting as an intermediary?

- ☐ Application-layer firewall
- ☒ Proxy firewall
- ☐ Stateful firewall
- ☐ Packet-filtering firewall



Question 55

1 / 1 pts

What is the primary purpose of a firewall in network security?

- ☐ Speed up internet connection
- ☐ Monitor user activity
- ☐ Block all incoming and outgoing traffic
- ☒ Control and filter network traffic



IncorrectQuestion 56

0 / 1 pts

What is the command to build an Image from a Dockerfile?

```
docker build -t image_name .
```



Question 57

1 / 1 pts

What is the command to list currently running containers?

```
docker ps
```



Question 58

1 / 1 pts

What is Docker?

- ☐ Docker is an open platform based on Windows containers for developing, shipping, and running applications.
- ☐ Docker is a closed platform based on Linux containers for developing, designing and deploying.

- ☐ None of the above
- ☒ Docker is an open platform based on Linux containers for developing, shipping, and running applications.



Question 59

1 / 1 pts

What is the default network used in docker?

- ☒ bridge
- ☐ custom
- ☐ none
- ☐ host



IncorrectQuestion 60

0 / 1 pts

What is the command to list all docker containers (running and stopped):

docker ps -a

Quiz Score: 45 out of 60