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1 What is an architectural constraint to which a true RESTful API web service must adhere?

1What is an architectural constraint to which a true RESTful API web service must adhere?

* It operates as a cloud service.
* It must operate along with a DNS server.
* It operates in a stateless way.
* It uses HTTPS to transport dat
* ANSWER - C

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2 What is an architectural constraint to which a true RESTful API web service must adhere?

2What is an architectural constraint to which a true RESTful API web service must adhere?

* It allows resource caching.
* It must support XML-RPC and JSON-RPC.
* It should be behind a firewall.
* It operates as a cloud service.
* ANSWER - B

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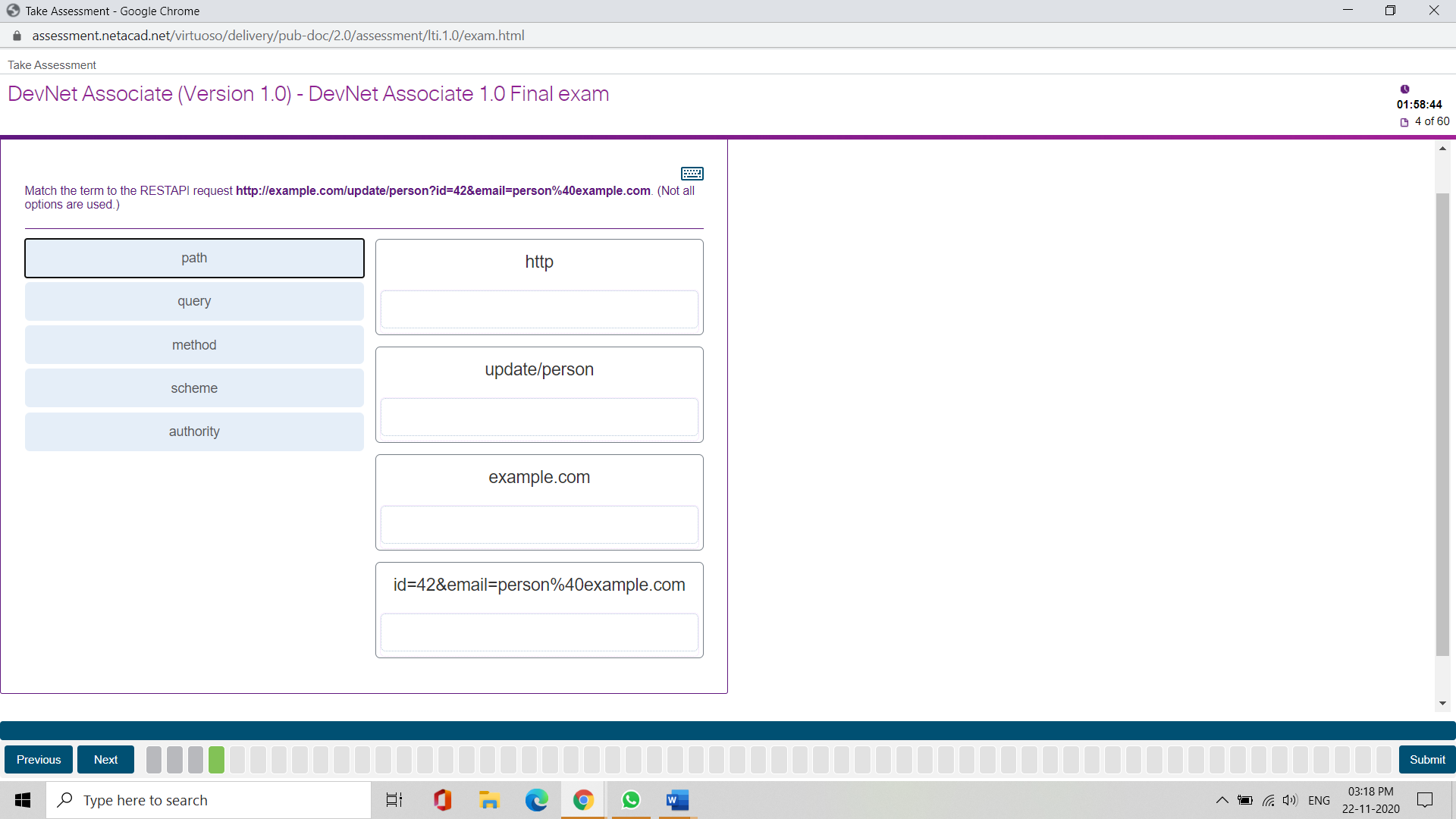
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3 Which two HTTP functions correspond to the UPDATE function in CRUD? (Choose two.)

3Which two HTTP functions correspond to the UPDATE function in CRUD? (Choose two.)

* POST
* PATCH
* PUT
* GET
* DELETE
* ANSWER – PUT AND PATCH

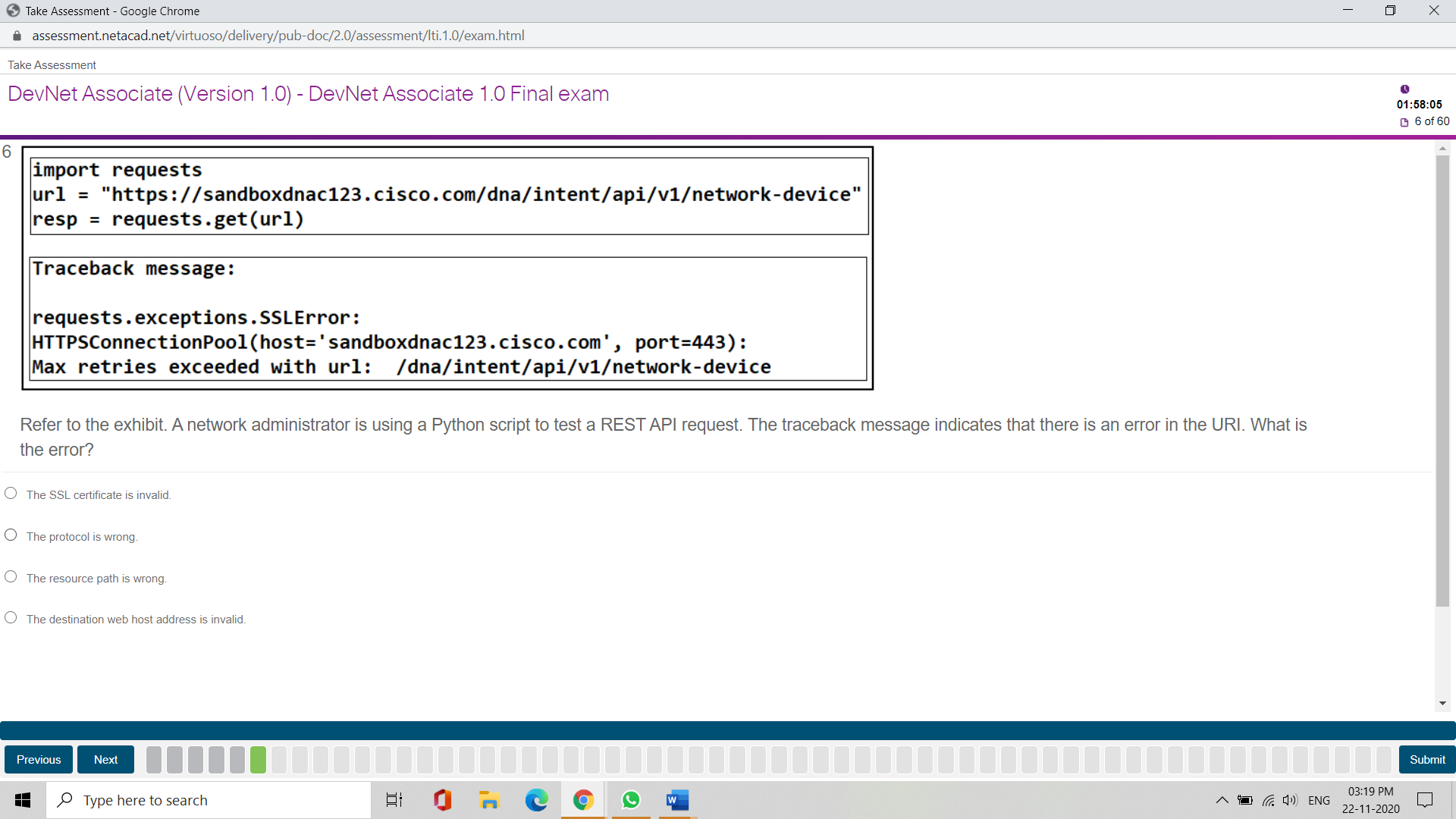
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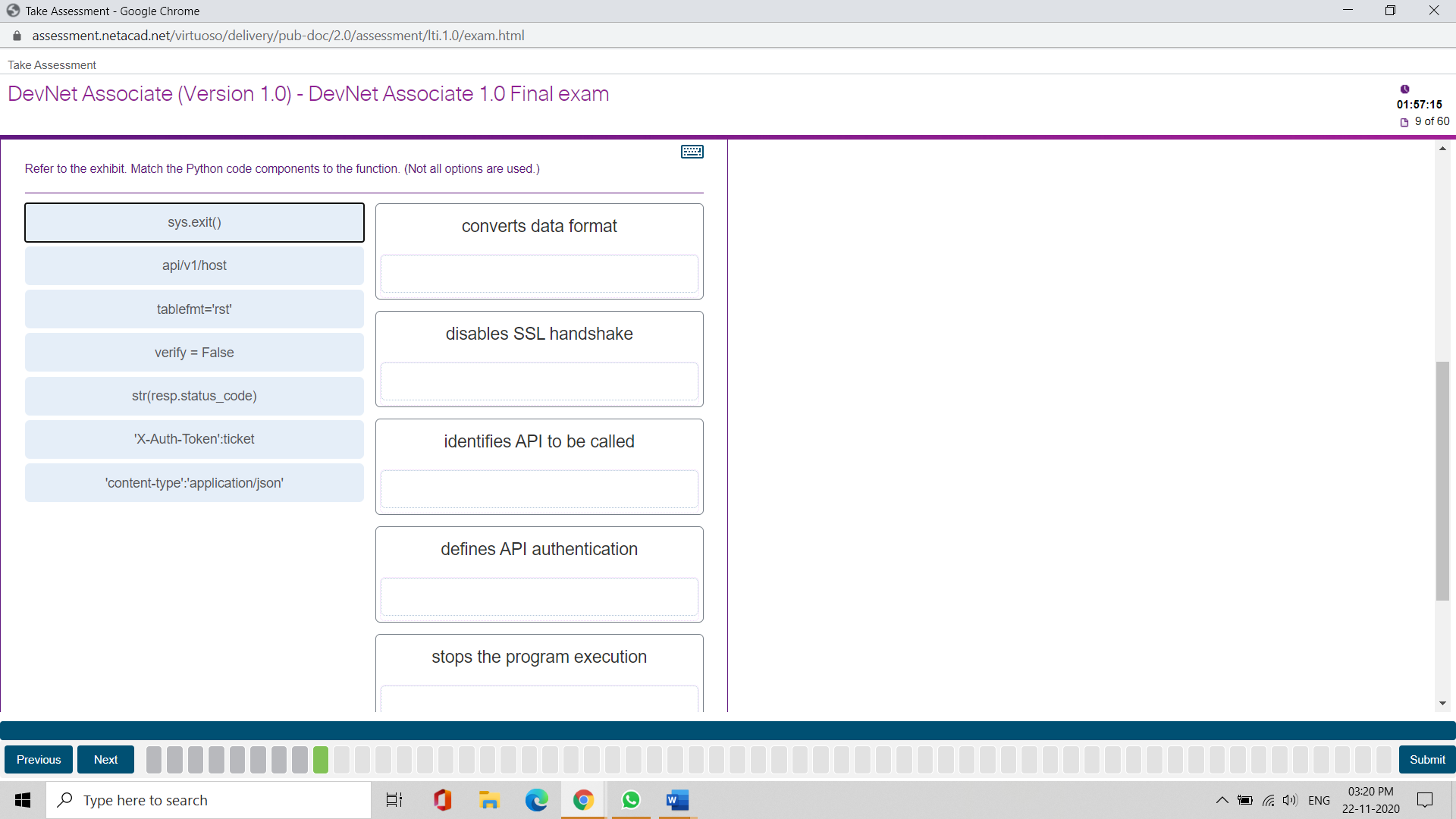
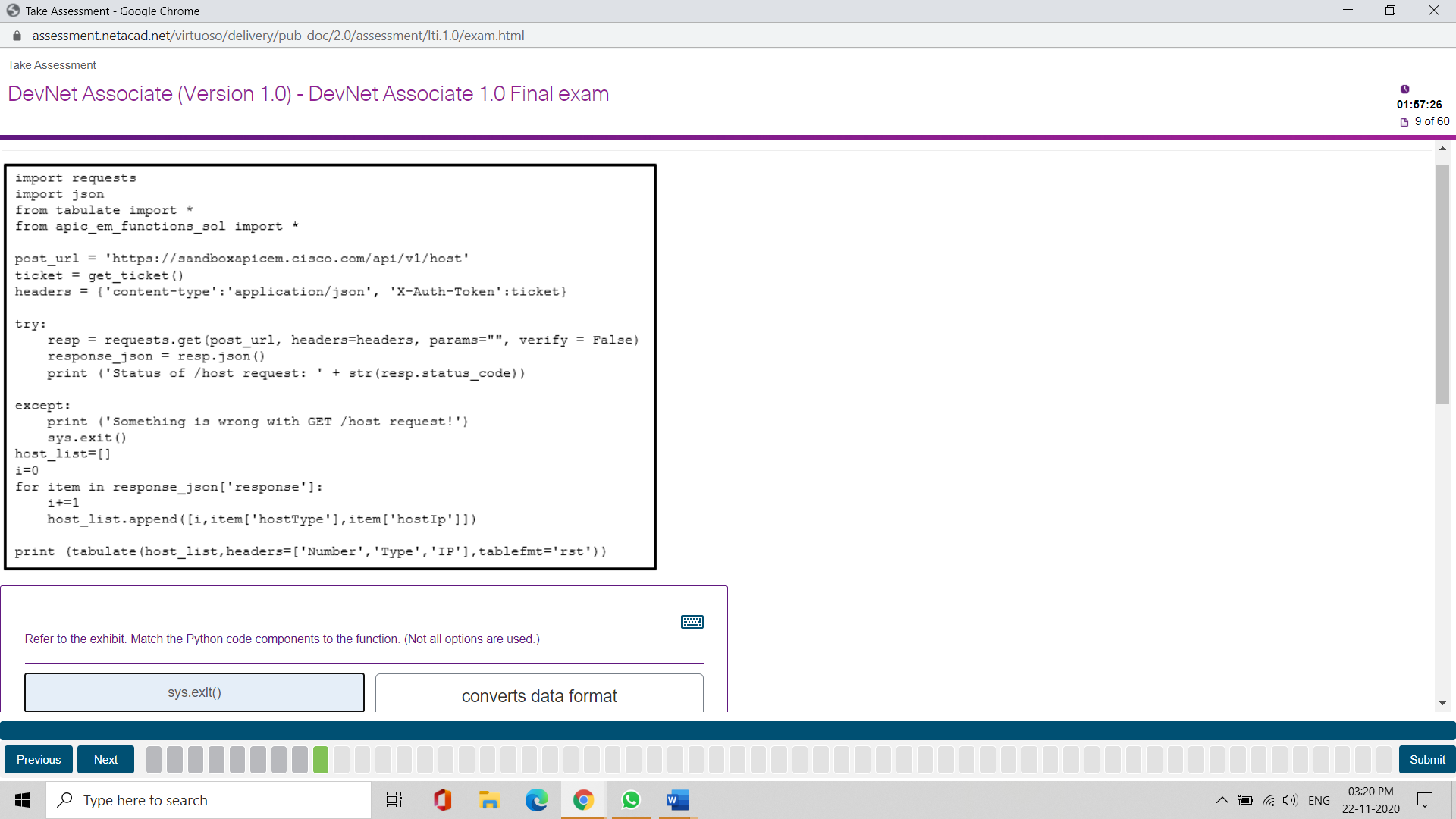
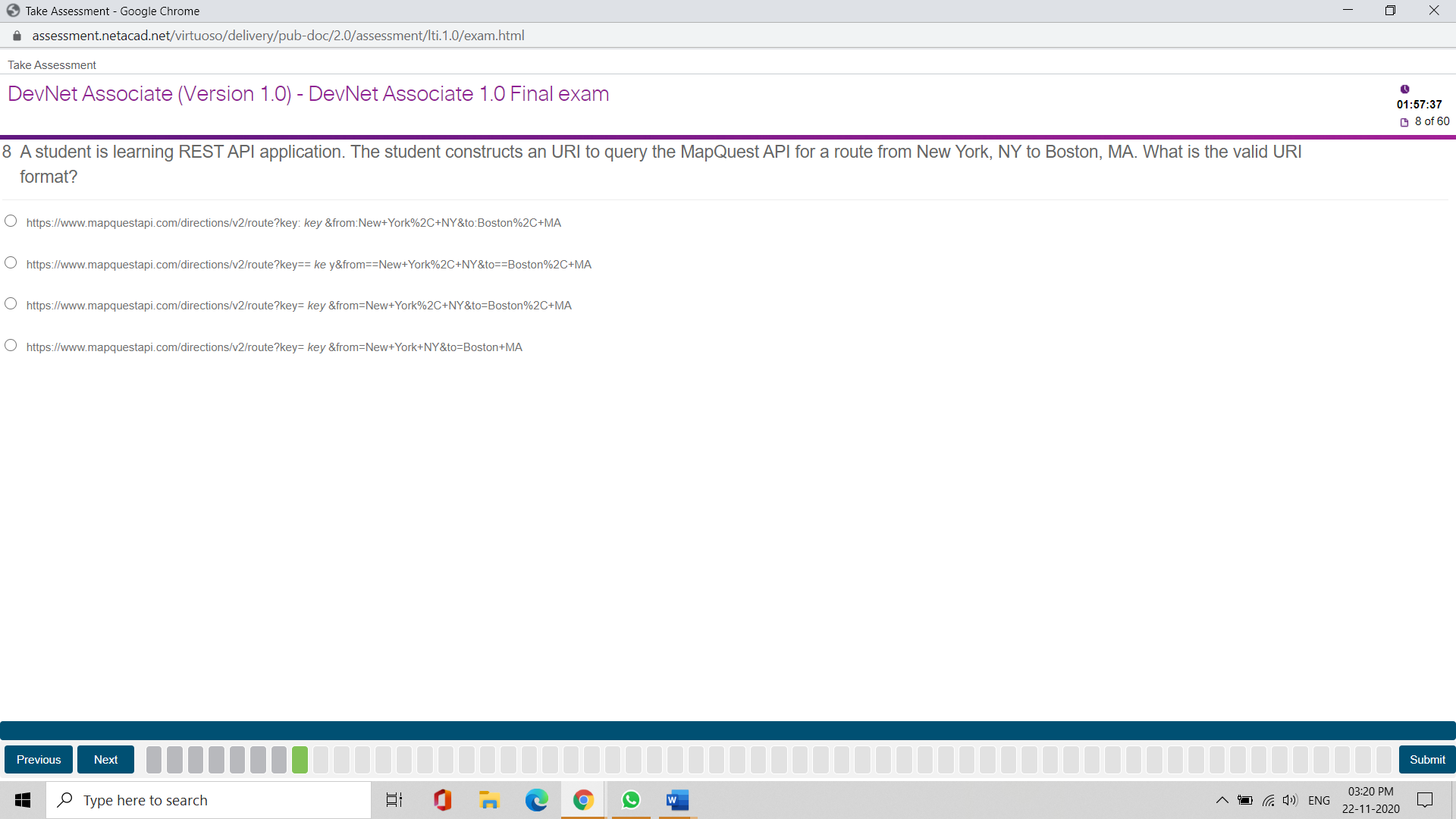
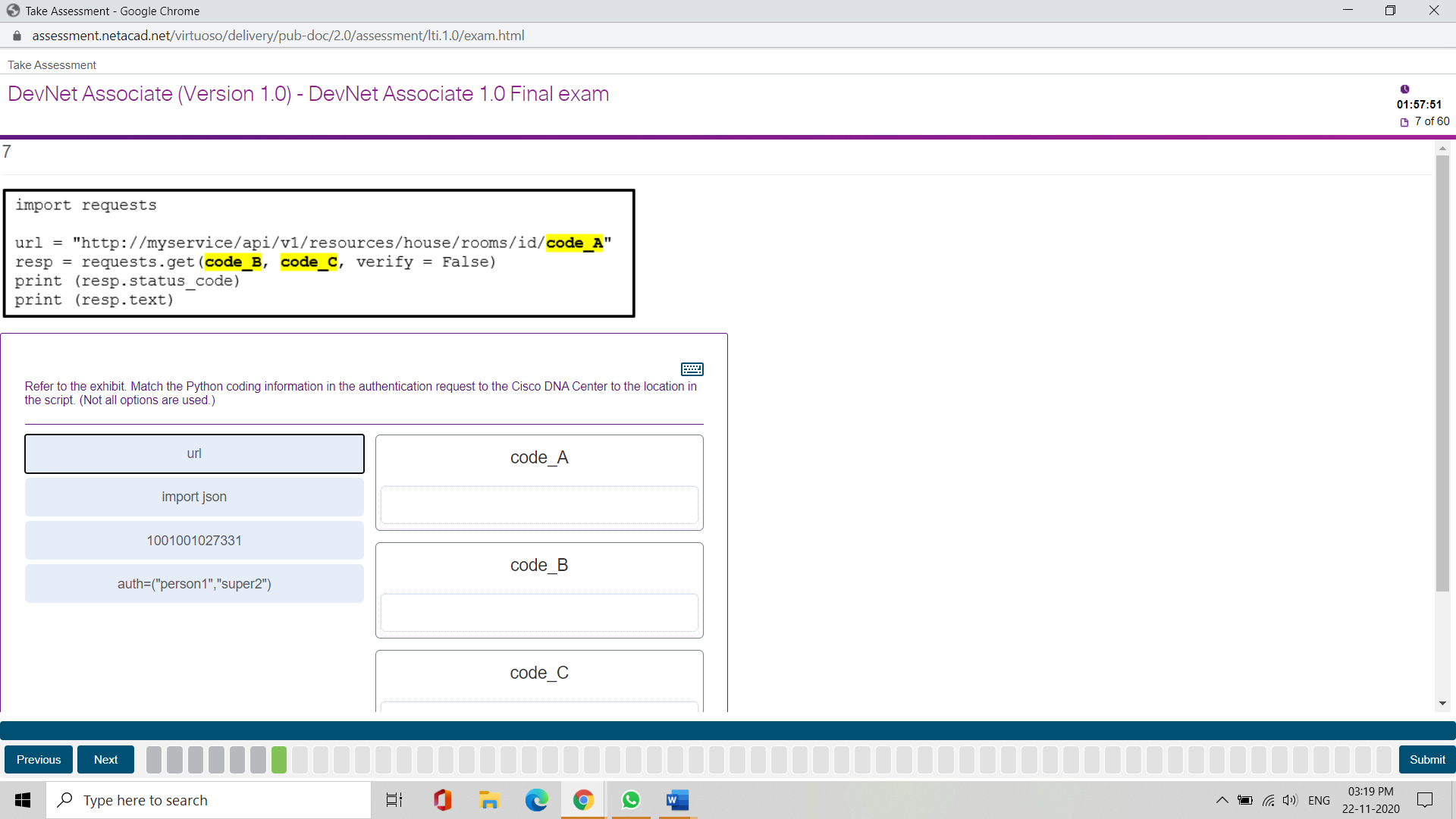


5Which HTTP status code category is used in the response to indicate that a REST API request contains an error on the client side?

* 1xx
* 2xx
* 3xx
* 4xx
* 5xx
* [Navigation Bar](javascript:document.querySelector('.current%20button').focus();)

ANSWER – D



10What is the default shell commonly used on macOS and Linux?

* csh
* tcsh
* Bash
* Bourne

11What is an example of a read-only automation solution?

* simplifying the automation of network device authentication, configuration, and consistency
* gathering SD-WAN inventory data using Python and recording the values in a database
* gathering the current list of ACL entries on an IOS XE router and enforcing consistency
* streamlining the management of L3 firewall rules in Cisco Meraki networks

ANSWER – C (gathering the current list of ACL entries on an IOS XE router and enforcing consistency)

12Which statement describes the term orchestration in IT automation?

* Orchestration is aimed at managing workload lifecycles and reacting dynamically to changing conditions in order to optimize processes.
* Orchestration is the building, arranging, integration, and preparation of multi-component applications across multiple nodes.
* Orchestration is the process of preparing a server through the installation of libraries or daemons.
* Orchestration is the obtaining and provisioning of compute, storage, and network infrastructure.

13Which component in the pyATS ecology handles bundling and running jobs?

* Clover
* Genie
* AEtest
* EasyPy
* [Navigation Bar](javascript:document.querySelector('.current%20button').focus();)

14What is a function provided by an implementation of a read-only automation solution?

* the ability to reduce risk by implementing security policies across the network infrastructure via automated changes
* the ability to use GET and SET requests to retrieve and send data across the network infrastructure
* the ability to use an automated request to audit configurations and manually deploy changes in order to implement compliance
* the ability to implement network infrastructure that receives a configuration from a specific centralized server

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15 What are two characteristics of stateless applications? (Choose two.)

15What are two characteristics of stateless applications? (Choose two.)

* They can store a user state in an accessible database separate from application servers and other components.
* They can be freely scaled across available capacity without disrupting ongoing customer connections.
* They must run on container orchestrators like Kubernetes.
* They can be scaled only by redeploying them and destroying the data that users or operators previously needed.
* They maintain the user state within the local user machine so that automation can work non-destructively.

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16 A component was created with the intent of combining the disciplines and skills of Dev and Ops. This component created a new job role and implemented a best-practices playbook for doing Ops with software methods. Which component matches this description?

16A component was created with the intent of combining the disciplines and skills of Dev and Ops. This component created a new job role and implemented a best-practices playbook for doing Ops with software methods. Which component matches this description?

* shared version control
* Agile Infrastructure and Operations
* the SRE approach
* automated infrastructure

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17A student is setting up the CSR1000v VM in VirtualBox that is already installed on the local computer. The VM is imported to the VirtualBox and starts successfully. The student tries to verify communications to the CSR1000v VM by opening the Firefox web browser on the local computer and enters the URL **https://192.168.56.101**. A security message “Warning: Potential Security Risk Ahead” appears. What is the security issue that results in this message?

* The SSL/TLS certificate uses a public key size of less than 1024 bits.
* The traffic to the VM is not encrypted.
* The CA for the SSL/TLS certificate cannot be reached.
* The SSL/TLS certificate is self-signed by the router.

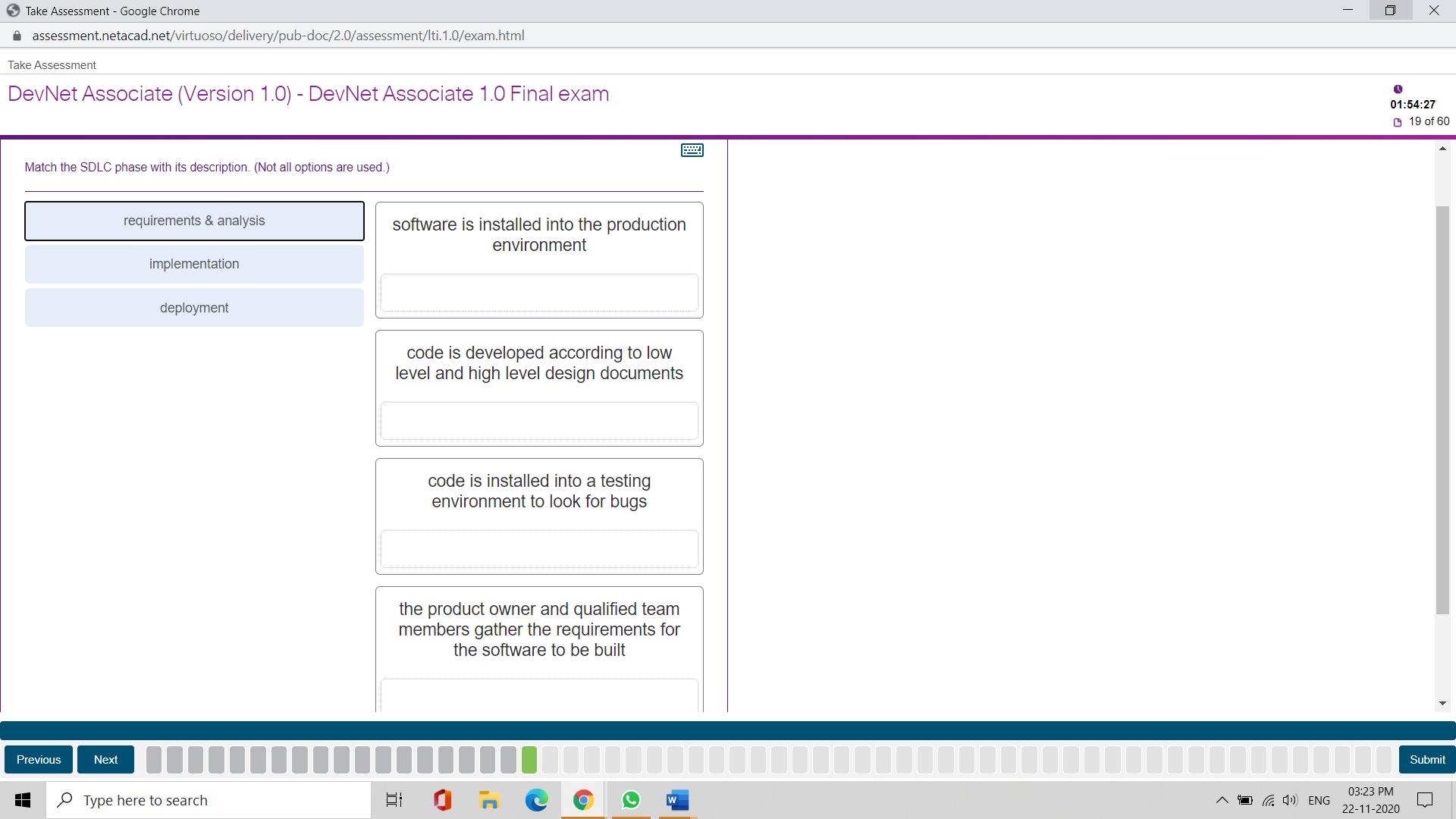
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18 What is immutable infrastructure in DevOps?

18What is immutable infrastructure in DevOps?

* infrastructure that is only deployed and maintained in containers
* infrastructure that is entirely maintained and deployed in code and never subjected to manual changes
* infrastructure that is deployed with all component versions locked except for the ability to perform manual configuration changes
* virtualized infrastructure that is deployed as golden images
* ANSWER B- infrastructure that is entirely maintained and deployed in code and never subjected to manual changes

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20Which command is used to create a new Git repository?

* **git init**
* **git commit**
* **git add**
* **git clone**

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21 What is a principle of the Lean software development model?

21What is a principle of the Lean software development model?

* making decisions as late as possible in the process so that more facts and details are available
* assigning resources to multiple projects so that effort can be divided on more than one task at a time
* adding additional product features that the customer did not ask for so that the customer is getting more than expected
* ordering workers to do tasks they may not want to do to ensure they get done

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22Which convention is used in Python to indicate that methods and variables in a class are private and not to be used outside of the class?

* by using two preceding hyphens ( -- ) for a method or variable
* by using the command **class private***classname()*: to start the class definition
* by using a single preceding underscore ( \_ ) for a method or variable
* by declaring a private method or variable in the beginning of the class definition
* [Navigation Bar](javascript:document.querySelector('.current%20button').focus();)

23Which stakeholder determines the useful value of software product features in the Lean process?

* the programmer
* the customer
* the reviewer
* the Scrum master
* [Navigation Bar](javascript:document.querySelector('.current%20button').focus();)
* ANSWER – B the customer

24Which git command is used to compare changes between files?

* **git checkout**
* **git status**
* **git merge**
* **git diff**

**ANSWER – D**

25A developer issues a Linux command **python3 -m venv devenv**. What is the developer trying to achieve?

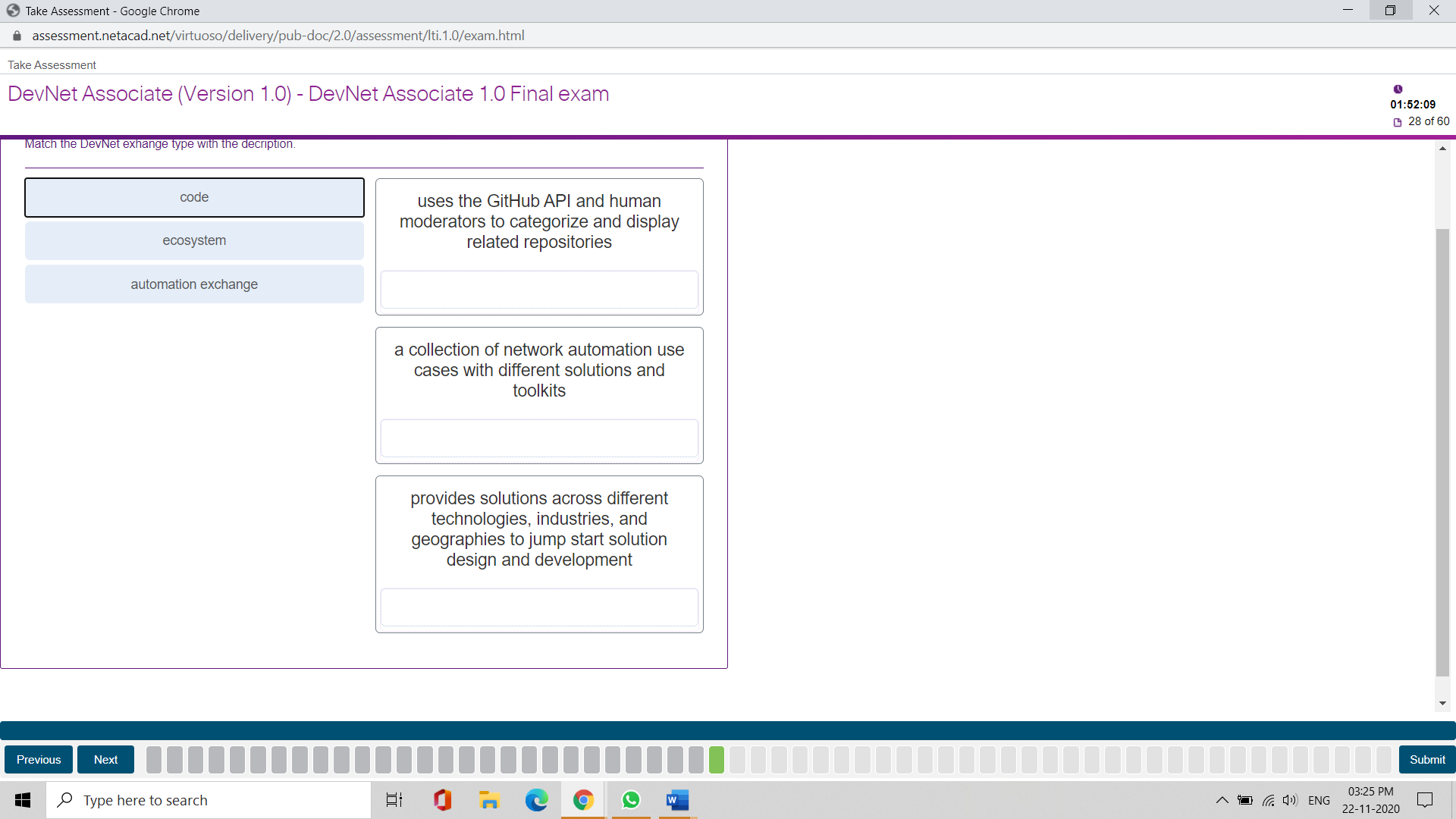
* to install the devnet tool sets in the Python 3 virtual environment named venv
* to activate the Python 3 virtual environment named devenv
* to enter the Python 3 virtual environment named venv using the devnet tool sets
* to create a Python 3 virtual environment named devenv

26In which SDLC phase is the software product installed into the production environment to decide if it is ready for release?

* design
* implementation
* testing
* deployment
* **ANSWER – D**

27A student who is interested in network programmability approaches an instructor for advice on learning more about the subject. The student is a kinesthetic learner who learns by doing. Which DevNet resource should the instructor consider telling the student about?

* DevNet Express
* DevNet Zone
* DevNet Create
* DevNet Learning Labs



29Which three avenues are available within DevNet for developers who need help with specific developer scenario questions concerning Cisco products? (Choose three.)

* posting to the DevNet zone
* posting on the Cisco Learning Network
* posting to a news group
* logging a ticket
* posting to a Webex Teams space
* posting to a community forum

30How do APIs affect traditional IT tasks?

* They are used to replace network infrastructure and implement network virtualization.
* They are used to increase hardware speed and lower power consumption.
* They are used to increase computer processing speed and lower power consumption.
* They are used to eliminate repetitive manual tasks and replace them with automation.

31Which DevNet resource would a developer use in order to test custom code in a production-like environment?

* Code Exchange
* DevNet Support
* DevNet Sandbox
* DevNet Learning Labs
* **ANSWER – C--** DevNet Sandbox

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32 What platforms are provided by DevNet for community members to share solutions, tool kits, and other resources with each other?

32  
What platforms are provided by DevNet for community members to share solutions, tool kits, and other resources with each other?

* communities
* sandboxes
* exchanges
* forums
* [Navigation Bar](javascript:document.querySelector('.current%20button').focus();)
* **ANSWER – C--** exchanges

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33 Which DevNet resource would a developer use to look for a Python library that supports APIs for a specific Cisco product?

33Which DevNet resource would a developer use to look for a Python library that supports APIs for a specific Cisco product?

* DevNet Support
* DevNet Learning Labs
* DevNet Sandbox
* Code Exchange
* [Navigation Bar](javascript:document.querySelector('.current%20button').focus();)
* **ANSWER – B**
* **Learning Labs - Self-paced tutorials that cover a wide range of topics; starting from basic coding to using REST APIs with various technologies**

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34 Which Docker component defines the steps needed to create an image that can be deployed in a variety of environments?

34Which Docker component defines the steps needed to create an image that can be deployed in a variety of environments?

* Dockerfile
* namespaces
* cross-site script
* UnionFS
* [Navigation Bar](javascript:document.querySelector('.current%20button').focus();)

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35 In which situation would a company implement a reverse proxy as a security solution?

35In which situation would a company implement a reverse proxy as a security solution?

* when the company wants all responses to clients to look like they came from the same server instead of individual ones
* when responses from servers need to be sent over different paths to ensure quality response time to the client devices making the requests
* when the company has a database and needs to point to a DNS server that uses different IP addresses for development resources
* when a hash is created based on the IP address of the request to a particular protected server
* [Navigation Bar](javascript:document.querySelector('.current%20button').focus();)

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36 What is a characteristic of the continuous integration component of the CI/CD philosophy for software development?

36What is a characteristic of the continuous integration component of the CI/CD philosophy for software development?

* Code changes are tested and integrated with the main branch then tested again before they are deployed into production.
* Code changes are continually merged with the main branch of the application, so change sets are small.
* Application development is performed in short sprints so that enough code is always in a deployable state.
* Code is constantly deployed into production where users serve as the final testers.
* [Navigation Bar](javascript:document.querySelector('.current%20button').focus();)
* ANSWER - Code changes are tested and integrated with the main branch then tested again before they are deployed into production.

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37 Which piece of software is responsible for creating and managing virtual machines, including allocating system resources to each virtual machine as needed?

37Which piece of software is responsible for creating and managing virtual machines, including allocating system resources to each virtual machine as needed?

* hypervisor
* host operating system
* supervisor
* hosted operating system
* [Navigation Bar](javascript:document.querySelector('.current%20button').focus();)

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38 A network engineer is configuring a Jenkins job and finishing with the following script in order to trigger the build:node { stage('Preparation') { catchError(buildResult: 'SUCCESS') { sh 'docker stop samplerunning' sh 'docker rm samplerunning' } } stage('Build') { build 'BuildAppJob' } stage('Results') { build 'TestAppJob' } } What is the purpose of the preparation stage?

38A network engineer is configuring a Jenkins job and finishing with the following script in order to trigger the build:

node {

stage('Preparation') {

catchError(buildResult: 'SUCCESS') {

sh 'docker stop samplerunning'

sh 'docker rm samplerunning'

}

}

stage('Build') {

build 'BuildAppJob'

}

stage('Results') {

build 'TestAppJob'

}

}

What is the purpose of the preparation stage?

* It runs the *SUCCESS*Docker container.
* It makes sure that any previous instances of a particular Docker container are stopped and removed.
* It catches and removes any errors.
* It places a log of any errors in the *SUCCESS*file.
* [Navigation Bar](javascript:document.querySelector('.current%20button').focus();)

ANSWER - It makes sure that any previous instances of a particular Docker container are stopped and removed.

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39 A pharmaceutical company wants to contract the services of a cloud provider to store employee data and company-specific applications with strict access security. Which type of cloud would be the most appropriate for this scenario?

39A pharmaceutical company wants to contract the services of a cloud provider to store employee data and company-specific applications with strict access security. Which type of cloud would be the most appropriate for this scenario?

* public cloud
* community cloud
* private cloud
* hybrid cloud
* [Navigation Bar](javascript:document.querySelector('.current%20button').focus();)

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40 What are two characteristics of the staging environment of the four-tier deployment environment structure? (Choose two.)

40What are two characteristics of the staging environment of the four-tier deployment environment structure? (Choose two.)

* It often includes automated testing tools such as Jenkins, CircleCI, or Travis CI.
* It is where end users will interact with the code.
* It is where the code undergoes final acceptance testing in a realistic environment.
* It is structured as close as possible to the actual production environment.
* It is the point where code has been tested multiple times and is error free.
* [Navigation Bar](javascript:document.querySelector('.current%20button').focus();)

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41 Which tool might a developer use as part of a Continuous Integration pipeline in order to build and test source code?

41Which tool might a developer use as part of a Continuous Integration pipeline in order to build and test source code?

* REST
* SQL
* Jenkins
* Docker
* [Navigation Bar](javascript:document.querySelector('.current%20button').focus();)

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42 What type of attack targets an SQL database using the input field of a user?

42What type of attack targets an SQL database using the input field of a user?

* SQL injection
* XML injection
* Cross-site scripting
* buffer overflow
* [Navigation Bar](javascript:document.querySelector('.current%20button').focus();)

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43 A software development company specializes in being able to use whatever software development method their customer wants to use. One customer company wants to use the Waterfall method. What is a characteristic of this method?

43A software development company specializes in being able to use whatever software development method their customer wants to use. One customer company wants to use the Waterfall method. What is a characteristic of this method?

* a process that eliminates anything that does not add value to the project including meetings and documentation
* a software development process where a particular phase depends on the results of the previous phase
* a process that amplifies learning as well as delivers as quickly as possible
* a software development process where the highest priority is to satisfy the customer through early and continuous delivery of valuable software
* [Navigation Bar](javascript:document.querySelector('.current%20button').focus();)

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44 A packet is received by a server. The packet has a destination port number of 443. What protocol or service is requested?

44A packet is received by a server. The packet has a destination port number of 443. What protocol or service is requested?

* HTTPS
* HTTP
* NTP
* DHCP
* [Navigation Bar](javascript:document.querySelector('.current%20button').focus();)
* ANSWER – A – HTTPS

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45 When thinking about the functional planes of a network, what is unique about the data plane?

45When thinking about the functional planes of a network, what is unique about the data plane?

* It manipulates data and outputs it in the JSON format.
* It forwards data through a network infrastructure device.
* It includes network traffic being processed by EIGRP or OSPF.
* It includes protocols used to remotely configure network devices.
* [Navigation Bar](javascript:document.querySelector('.current%20button').focus();)

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46 Which statement accurately describes dynamic NAT?

46Which statement accurately describes dynamic NAT?

* It provides an automated mapping of inside local to inside global IP addresses.
* It provides a mapping of internal host names to IP addresses.
* It dynamically provides IP addressing to internal hosts.
* It always maps a private IP address to a public IP address.
* ANSWER
* It always maps a private IP address to a public IP address.
* [Navigation Bar](javascript:document.querySelector('.current%20button').focus();)

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47 What are two reasons a network administrator would segment a network with a Layer 2 switch? (Choose two.)

47What are two reasons a network administrator would segment a network with a Layer 2 switch? (Choose two.)

* to create more broadcast domains
* to enhance user bandwidth
* to isolate traffic between segments
* to create fewer collision domains
* to isolate ARP request messages from the rest of the network
* to eliminate virtual circuits
* [Navigation Bar](javascript:document.querySelector('.current%20button').focus();)
* ANSWER
* to enhance user bandwidth
* to isolate traffic between segments

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48 Which statement describes a stateful firewall?

48Which statement describes a stateful firewall?

* It can only filter packets based on limited Layer 3 and 4 information.
* It can determine if the connection is in the initiation, data transfer, or termination phase.
* It can filter packets based on information at Layers 3, 4, 5 and 7 of the OSI reference model.
* It can expand the number of IP addresses available and can hide network addressing design.
* [Navigation Bar](javascript:document.querySelector('.current%20button').focus();)
* **ANSWER –B -- It can determine if the connection is in the initiation, data transfer, or termination phase**

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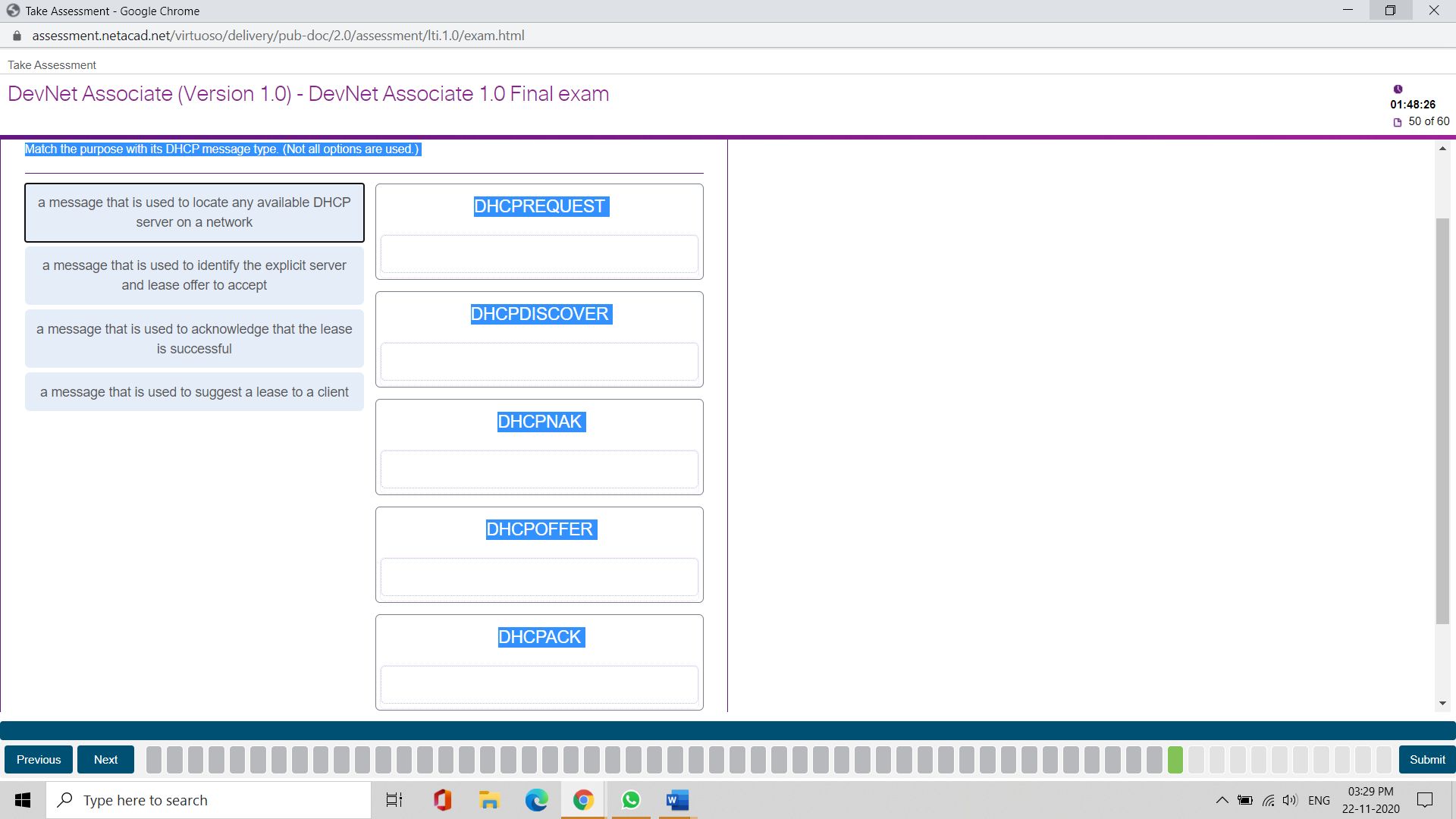
49 A network contains multiple VLANs spanning multiple switches. What happens when a device in VLAN 20 sends a broadcast Ethernet frame?

49A network contains multiple VLANs spanning multiple switches. What happens when a device in VLAN 20 sends a broadcast Ethernet frame?

* Devices in VLAN 20 and the management VLAN see the frame.
* Only devices in VLAN 20 see the frame.
* All devices in all VLANs see the frame.
* Only devices that are connected to the local switch see the frame.
* [Navigation Bar](javascript:document.querySelector('.current%20button').focus();)
* **ANS - B Only devices in VLAN 20 see the frame.\***

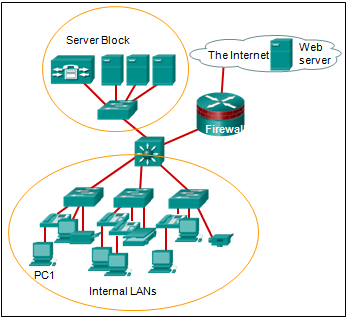
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51 Refer to the exhibit. If PC1 is communicating with a web server on the Internet, which two TCP/IP layers are responsible for encapsulating the message that requests data from that particular server and assigning a source port number? (Choose two.)The graphic is not needed to answer the question. PC1 connects to a phone that connects to a network switch in an area labeled Internal LANs. This area has other PCs, printers, phones, and switches. The network switch connects to another network switch, which connects to a firewall. The firewall connects to a cloud labeled The Internet. Inside the cloud is a server labeled Web server. Also in the graphic is a group of servers labeled Server Block.

51Refer to the exhibit. If PC1 is communicating with a web server on the Internet, which two TCP/IP layers are responsible for encapsulating the message that requests data from that particular server and assigning a source port number? (Choose two.)

* session
* physical
* network
* application
* transport
* [Navigation Bar](javascript:document.querySelector('.current%20button').focus();)

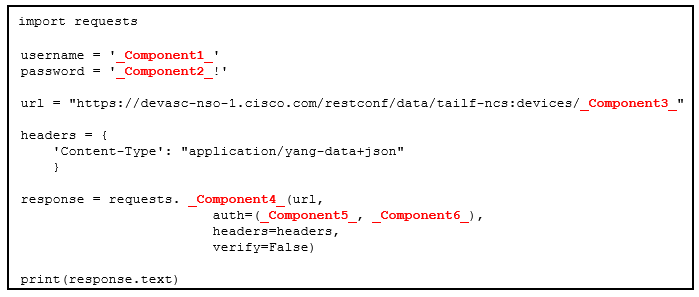
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52 Drag and Drop The exhibit shows the following information: import requests username = ‘\_Component1\_' password = ‘\_Component2\_!' url = "https://devasc-nso-1.cisco.com/restconf/data/tailf-ncs:devices/\_Component3\_" headers = { 'Content-Type': "application/yang-data+json" } response = requests. \_Component4\_(url, auth=(\_Component5\_, \_Component6\_), headers=headers, verify=False) print(response.text)

52



Option 1: username. Press spacebar to enter matching mode.

Refer to the exhibit. Match the missing components of the Python script for authenticating to the Cisco Network Services Orchestrator and obtaining a list of network devices using the username of "superadmin" and password of "soverysecure!". (Not all options are used.)

username

password

device

list

superadmin

soverysecure!

get

Component 1

Component 2

Component 3

Component 4

Component 5

Component 6

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53 What is an example of a use supported by Cisco UCS Director and UCS Manager?

53What is an example of a use supported by Cisco UCS Director and UCS Manager?

* underlying central system workflow management and migration
* telemetry data collection and analysis
* call center and call management over IP networks
* bare metal server provisioning and monitoring of virtual environments
* [Navigation Bar](javascript:document.querySelector('.current%20button').focus();)
* ANSWER – A

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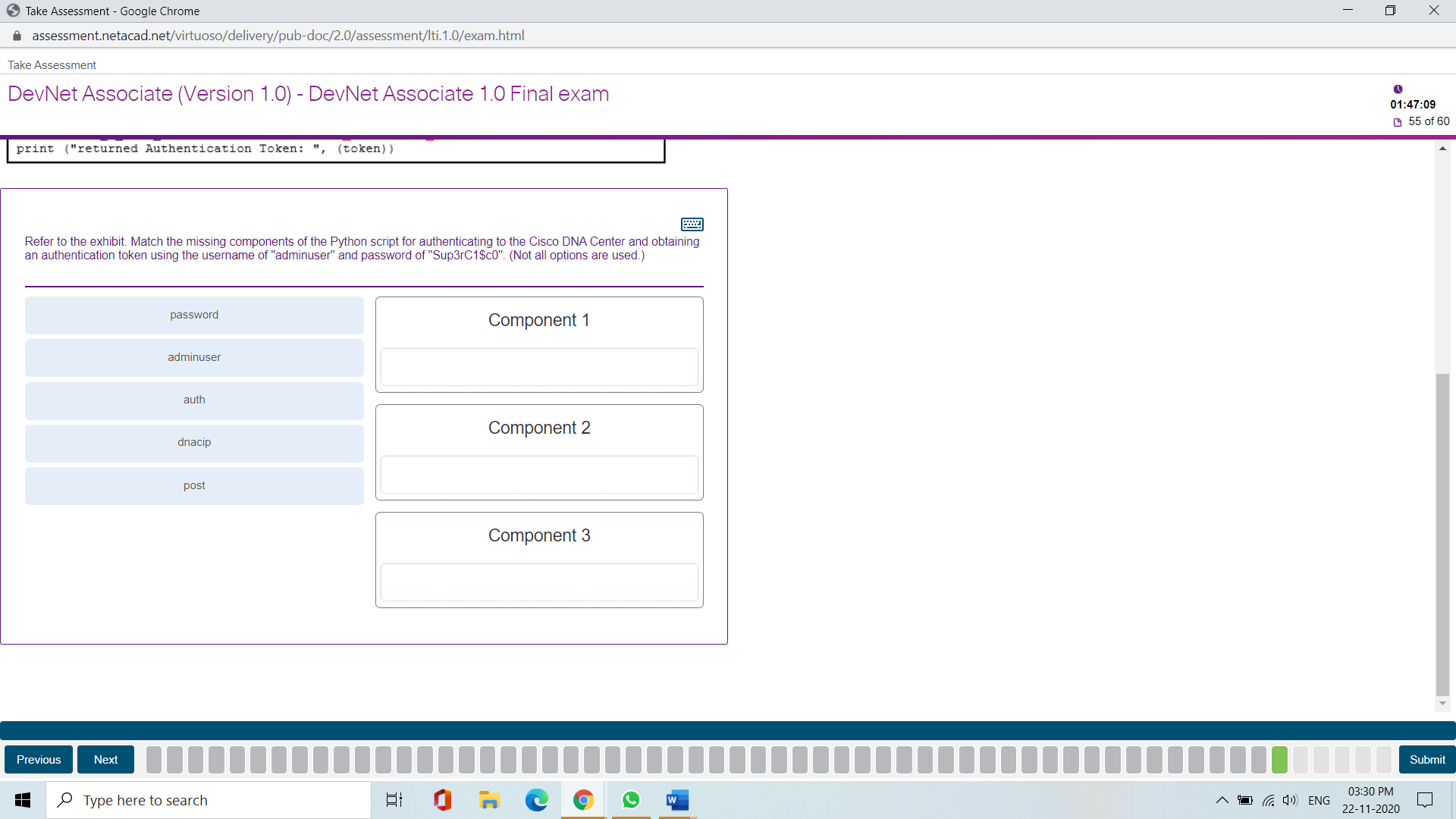
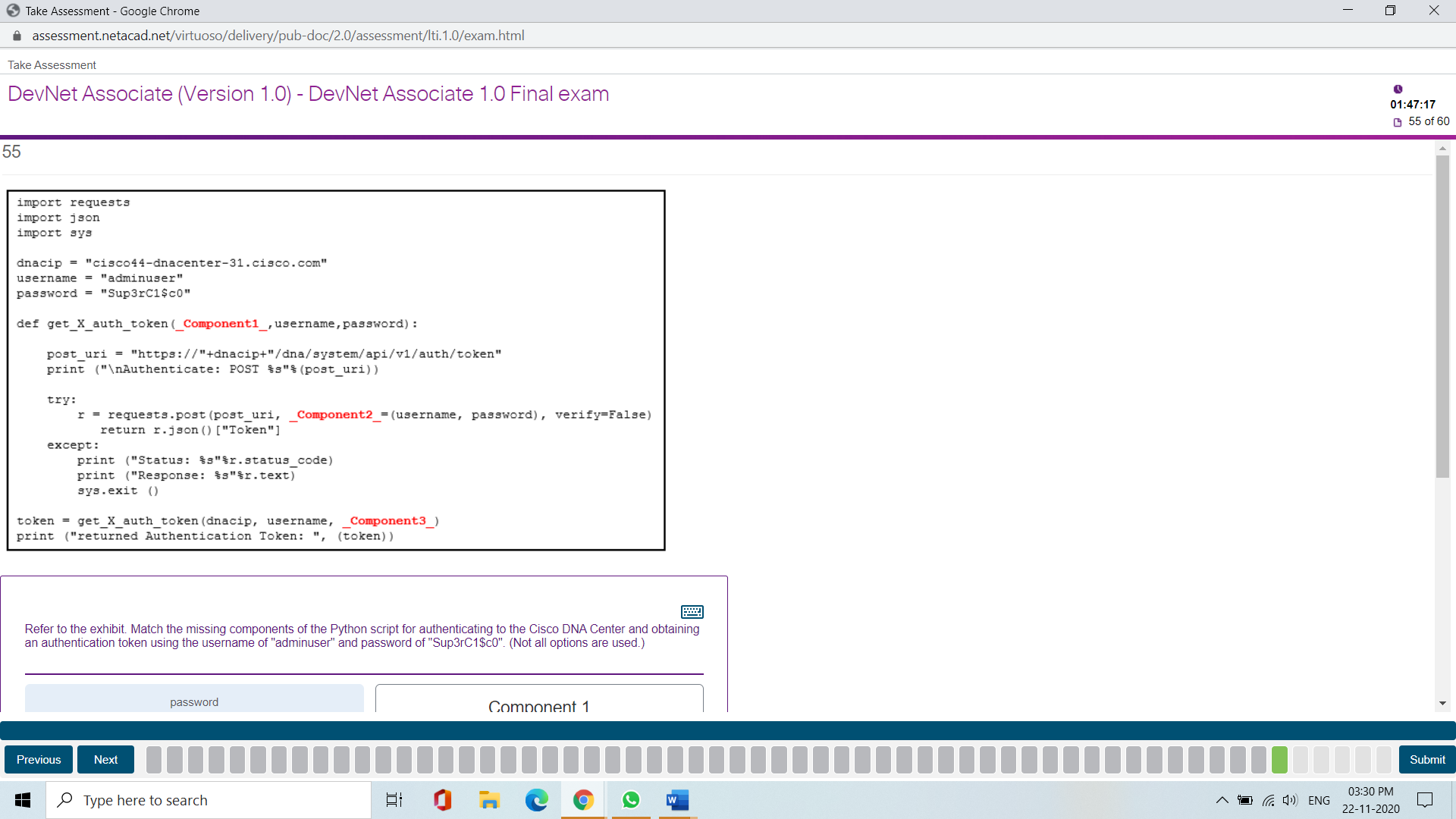
54 Which type of request is used to send a message to a Webex Teams space using Python and the Messages API?

54Which type of request is used to send a message to a Webex Teams space using Python and the Messages API?

* PUT
* GET
* PATCH
* POST
* [Navigation Bar](javascript:document.querySelector('.current%20button').focus();)
* ANSWER – A (GET)

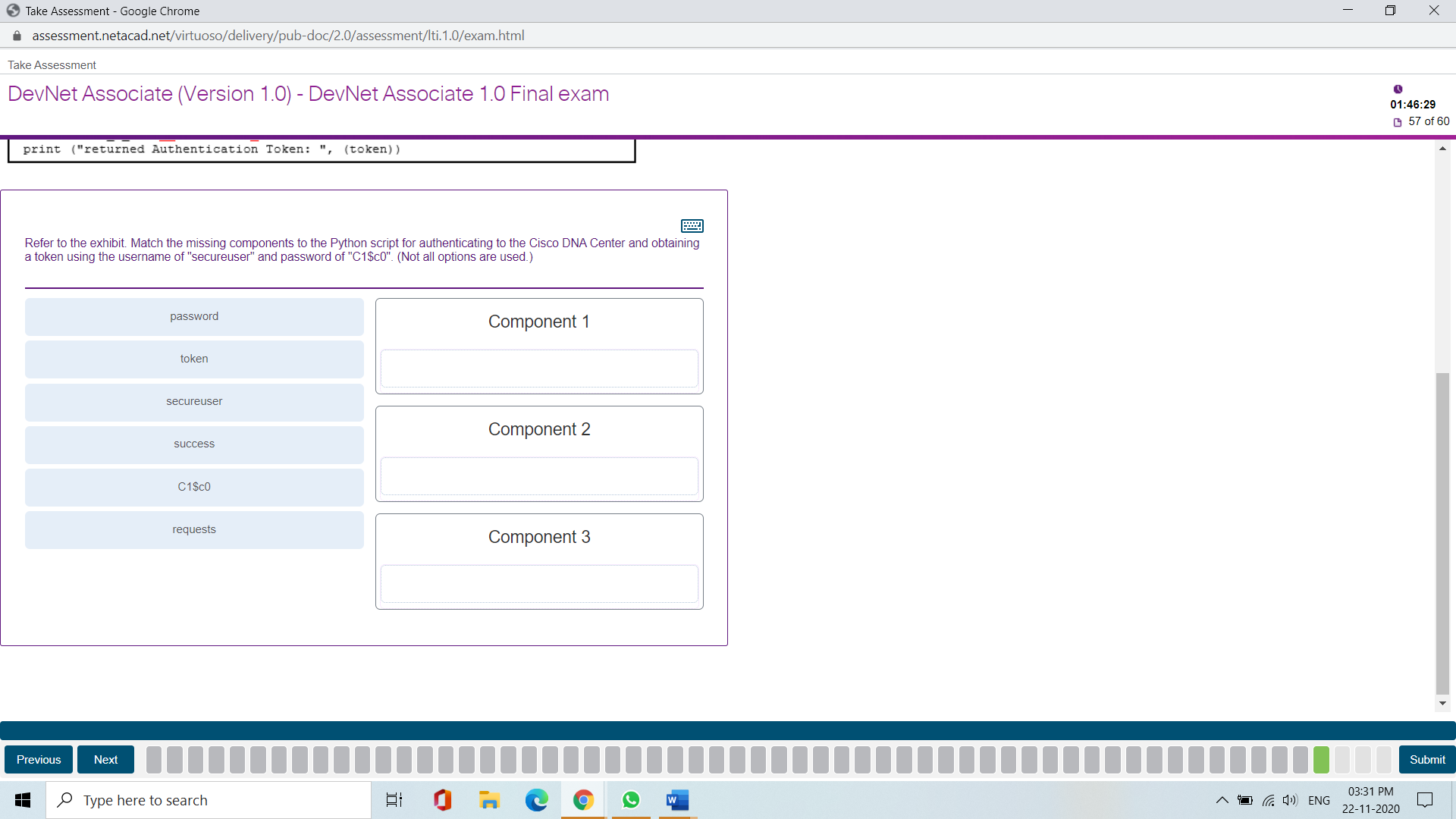
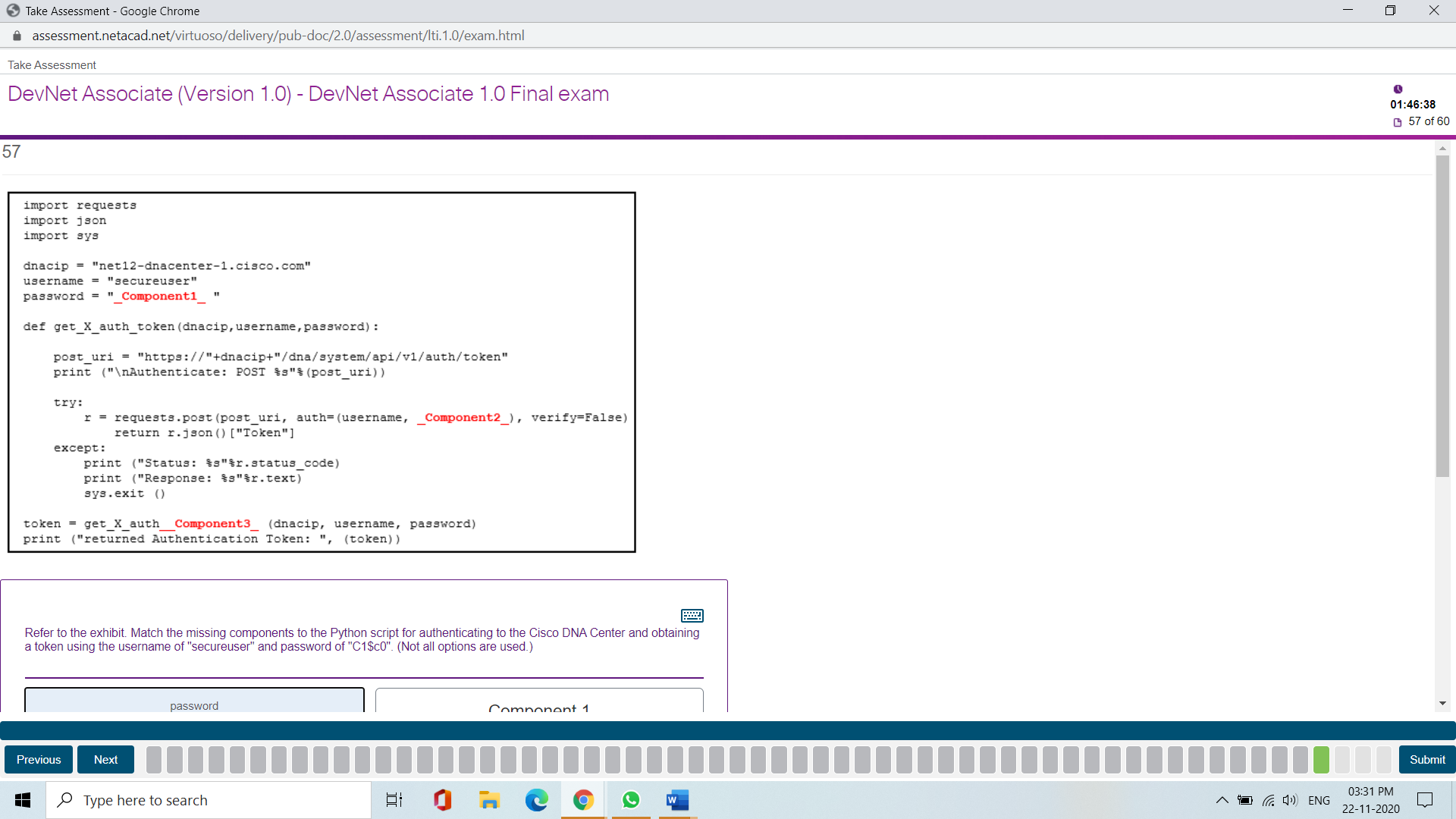
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56A network administrator is developing an application to control a Webex device through xAPI. Which three protocols can be used to access xAPI? (Choose three.)

* FTP
* Telnet
* JSON
* RS-232
* XML
* HTTP
* ANSWER – Telnet/SSH, HTTP, and RS-232



58Which two data formats can RESTCON use when requesting data or responding with data? (Choose two.)

* YAML
* JSON
* YANG
* HTML
* XML

\

ANSWER – XML and YANG

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59Which type of ISE node provides network access, posturing, guest access, client provisioning, and profiling services?

* administration
* policy service
* pxGrid
* monitoring

ANSWER – B

