Vendor: Cisco

Exam Code: 600-502

Exam Name: Developing with Cisco Network Programmability

Version: DEMO

QUESTION 1
A stock brokerage firm requires that all trades are executed quickly with a minimal amount of delay due to network latency.

Which software requirement is recommended as part of a business requirement?

A. The application shall process trades as soon as possible with no further delay.
B. The application should provide high-availability features to continue trading activities even in case of a software or hardware failure.
C. The application shall maintain the state of all active network links in real time and prioritize traffic flows that belong to trading activities on the links with lowest latency.
D. The application should set the latency attribute to zero on packets that belong to the a trading action.

Answer: C

QUESTION 2
You must develop an SDN application that meets these specifications. The solution must manage devices through a centralized controller to configure access control lists. The solution will monitor traffic at a packet level to determine which packets are coming from known rogue applications and/or devices. Identified traffic will be used as the basis to create new ACLs to be deployed back onto the network devices. The identification and provisioning steps should take no more than 100 milliseconds.

Which three design options must you consider to develop an SDN application that meets these specifications? (Choose three.)

A. choice of programming and scripting language
B. choice of service set
C. choice of transport protocol
D. choice of deployment model
E. use of security and TLS
F. hardware platforms involved

Answer: ABD

QUESTION 3
Which programming language and Cisco onePK Service Set is required for an application that performs at the packet level?

A. Java with Utility Service Set
B. REST with Element Service Set
C. Ruby with Routing Service Set
D. Python with Routing Service Set
E. REST with Utility Service Set
F. C with Data Path Service Set
G. Java with Developer Service Set

Answer: F

QUESTION 4
An application that leverages the Cisco onePK Data Path Service Set requires that TCP frames
are inspected and discarded under a set of conditions. The sender is not informed of the discard.

Which action does this scenario describe?

A. bypass or offload
B. DSCP marking
C. drop
D. purge
E. L4 redirect

Answer: D

QUESTION 5
You must document that before your application applies any configuration changes to a device,
the application runs those changes through a set of predefined, automated consistency tests
called "ACT-CHECK10". The application applies changes only after the test has completed
without any ERRORS or WARNINGS.

Which statement about these requirements is true?

A. The system should test the configuration before applying it.
B. After applying the configuration changes the user should ping the device to ensure that everything
   still works.
C. The system should run consistency checks prior to applying configuration changes.
D. Prior to applying the configuration changes to the device, the system shall run consistency test
   ACT_CHECK10, and proceed to applying changes only if no errors and/or warnings are reported
   by the test.
E. The system should call the function app.ACT_CHECK10("config-changes.txt") method and
   capture the output. The system shall than go through the output to count the number of ERRORS
   and WARNINGS reported by the test. If the total number of ERRORS and WARNINGS is equal to
   0, the system shall proceed to run app.ApplyChanges("config-changes.txt").

Answer: D

QUESTION 6
When an application must be developed that interacts with Cisco IOS, NX-OS, and IOS-XR
devices, the application must use LDAP for authentication and have secure communication
between the Cisco onePK application and managed device. The customer prefers the use of
Java for follow-on supportability by their staff. The customer is familiar with the Eclipse IDE.
Which application dependency is relevant?

A. interaction with multiple device platforms ?Cisco IOS, NX-OS, and IOS-XR
B. use of LDAP for authentication
C. use of secure communication between onePK app and the device
D. choice of Java as programming language
E. customer's familiarity with Eclipse IDE

Answer: B

QUESTION 7
Which Cisco onePK API service provides path tracing capabilities?

A. Switching
B. Routing
C. Utility
D. Data Path
E. Developer
F. Discovery

Answer: C

QUESTION 8
Which three options are requirements that should be supported by Software Defined Networking controllers? (Choose three.)

A. extraction of network element and topology information
B. computation of the explicit routing path per application flow.
C. ability to route application traffic based on policy
D. OSGI
E. Agile development principles
F. service-oriented architecture

Answer: ABC

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