QUESTION 1
A company is collecting data from several thousand machines globally. Which software component in the overall architecture is the next destination of the dataflow after the data has been gathered and normalized on the edge data software?

A. relational database: MySQL
B. historian database: influxDB
C. message broker: Apache Kafka
D. dashboard: Node.js web app

Correct Answer: B

QUESTION 2
Which data visualization technique should be used to represent an important single metric on a dashboard?

A. heatmap
B. scatter pot
C. gauge
D. treemap

Correct Answer: C

QUESTION 3
When trying to subscribe to an MQTT broker on the internet, the MQTT client is on a private subnet and must be NATed to reach the public broker. What is the

expected outcome when this configuration is in place?

A. The client periodically reconnects to the default gateway.
B. The client connects only once using the PENDING message to the broker.
C. The client periodically reconnects to the broker over the NAT connection.
D. The client connects only once using the CONNECT massage to the broker.

Correct Answer: D

QUESTION 4
Which two states are applications expected to be seen in when they are managed on Cisco IOx? (Choose two.)

A. DEACTIVATED
B. ACTIVATED
C. ALLOWED
D. STOPPED
E. VALIDATED

Correct Answer: BD

QUESTION 5
Which connector is southbound?

A. horizontal connector
B. cloud connector
C. device connector
D. universal connector

Correct Answer: C

QUESTION 6
When constructing a Python script for data extraction using GMM APIs on a Cisco Kinetic Cloud platform, how should the API authentication be implemented?

A. Generate the API keys once and edit the permissions as needed.
B. Generate and use the API keys for the required access level from the Kinetic Cloud application.
C. Use a complex username and password with 128-bit encryption.
D. Use a complex username with an auto-generated password from the Kinetic Cloud application.

Correct Answer: B

QUESTION 7
An IoT engineer is responsible for security at an organization. Humans and machines need to be allowed to access services like database or compute on AWS. The engineer decides to implement dynamic secrets.

Which method helps to get this implementation accurate from a security point of view?

A. Create a central secret system for humans and machine to obtain very short-lived dynamic secrets to access any service.
B. Humans cannot be trusted, and each time they authenticate they should be issued with dynamic secrets. Machines can be trusted, and they can be issued with static credentials.
C. Maintain a different service associated to secret systems to issue access.
D. After a user is authenticated by any trusted system, the user can be trusted to use any service.

Correct Answer: A

QUESTION 8
Which statement explains the correct position of a PLC within the CPwE architecture?

A. PLCs are always part of Level 0 – process control.
B. PLCs are part of Level 4 – site business planning.
C. PLCs are part of Level 1 – basic control.
D.
E. PLCs are placed at Level 2 – area supervisory control.

Correct Answer: C

QUESTION 9
A sensor reads potentially critical data from an industrial device, but most of the data from the sensor is not critical information and does not change unless a critical event happens.

Which data work flow is appropriate for how the critical and non-critical data is processed?

A. 1. Acquire sensor data.
   2. Filter non-actionable data.
   3. Perform action on data.
   4. Send critical data and action performed on data to cloud for storing.
B. 1. Acquire sensor data.
   2. Send data to cloud for processing and to determine action.
   3. Send required action back to edge for action completion.
   4. Perform action on data.
C. 1. Acquire sensor data.
   2. Filter non-actionable data.
   3. Perform action on data.
D. 1. Acquire sensor data.
   2. Perform action on data.
   3. Send data and action performed on data to cloud for recording.

Correct Answer: D

QUESTION 10

```
FROM devhub-docker.cisco.com/iox-docker/ir800/base-rootfs as builder
RUN opkg update
RUN opkg install iox-toolchain
RUN mkdir -p /var/helloworld/
COPY helloworld.c /var/helloworld/
WORKDIR /var/helloworld/
RUN gcc helloworld.c -o helloworld

FROM devhub-docker.cisco.com/iox-docker/ir800/base-rootfs
RUN mkdir -p /var/helloworld/
COPY --from=builder /var/helloworld/helloworld /var/helloworld
RUN chmod +x /var/helloworld/helloworld
COPY init_app.sh /etc/init.d/
RUN chmod +x /etc/init.d/init_app.sh
RUN update-rc.d init_app.sh defaults
```

Refer to the exhibit. When a Docker image is built using this Dockerfile, which two statements are valid on Cisco IOx 1.8 and before? (Choose two.)

A. It builds an image that can be executed on all Cisco platforms.
B. It builds a Docker image that cannot be used directly on Cisco IOx.
C. It compiles a "hello world" program in C.
D. It creates two separate images.
E. It builds an IOx package that can be deployed directly.

Correct Answer: BC

QUESTION 11
When an RS232 device is connected to a Cisco IR829 router, the data collected is not being parsed correctly by the edge application. Which two steps

should be taken to troubleshoot the issue? (Choose two.)

A. SSH access on the Cisco IR829 router must be enabled for IOx Guest OS.
B. Communication mode must be set to half duplex over serial connection.
C. Serial cable length should not exceed 1.5 meters.
D. Ensure that communication parameters like baud rate and parity are set correctly.
E. Set the cable connections based on the PIN layout from the sensor vendor.

Correct Answer: DE

QUESTION 12

```
"/Users/venv/bin/python" "/Users/Documents/Coding Projects/fkf3/main.py"
log: Sending CONNECT (u1, p1, wr0, wq0, wf0, c1, k60) client_id=b'python'
log: Sending SUBSCRIBE (d0, m1) [(b'eschbornoffice/things/FCD6BD00001913F4/uplink', 0)]
log: Sending SUBSCRIBE (d0, m2) [(b'eschbornoffice/things/FCD6BD0000191405/uplink', 0)]
log: Sending SUBSCRIBE (d0, m3) [(b'eschbornoffice/things/FCD6BD00001913FC/uplink', 0)]
log: Sending SUBSCRIBE (d0, m4) [(b'eschbornoffice/things/FCD6BD00001913F2/uplink', 0)]
log: Received CONNACK (0, 0)
Result code 0
log: Received SUBACK
log: Received SUBACK
log: Received SUBACK
log: Received SUBACK
```

Refer to the exhibit. Which two statements about MQTT messaging are true? (Choose two.)

A. Result code 5 means the connection is accepted; result code 0 means the connection is "refused, not authorized".
B. Redundant ClientIDs are supported by MQTT brokers.
C. MQTT does not support a "keep alive" functionality because it runs on top of TCP.
D. Result code 0 means the connection is accepted; result code 5 means the connection is "refused, not authorized".
E. Brokers can send the Last Will and Testament messages on behalf of the client.

Correct Answer: DE

QUESTION 13
DRAG DROP

An application needs to calculate if the product meets a determined quality specification, activate an automation to remove poor quality products, and report detailed results back to the cloud. All data are captured from an application that is connected to a sensor. Using the SDK of the cloud provider, drag and drop the tasks that must be completed from the left to the right. Not all options are used.

Select and Place:

Options	
code function for detection	
quality specification of product	
credentials for network and cloud operations	
sensor function with sensor SDK	
user interaction with the application	
cloud function communication with cloud SDK	
product removal function	

Correct Answer:

Options	Answer
code function for detection	code function for detection
quality specification of product	quality specification of product
credentials for network and cloud operations	sensor function with sensor SDK
sensor function with sensor SDK	cloud function communication with cloud SDK
user interaction with the application	product removal function
cloud function communication with cloud SDK	
product removal function	

QUESTION 14
How does the Cisco router (IR) and switch (IE) portfolio support edge data services?

A. Edge data services can be run and managed as containers using Cisco IOx.
B. Edge data services can run only in virtual machines on a separate compute layer.
C. Edge data services are aliases for IR/IE configuration services.
D. Edge data services run as separate instances only on virtual machines.

Correct Answer: C

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