• Questions: o Multiple-choice: Has once correct response and one or more incorrect responses o Multiple response: Has two or more correct responses o Association: Associate options with correct responses • Type: Open-book, non-proctored • Length: 28 questions • Duration: 90 mins (1.5 hours) • Pass score: 70% • Language: English

Time Left: 1h 28m 49s

You must answer all questions to proceed with the te

Single Choice

1) Consider there are two event driven microservices A and B communicating to each other via an Event Broker. A->Broker->B. If Microservice B is unable to keep up with the bursty traffic being sent by A what should you do?

- ○ Do nothing, it will eventually catch up
- ◉ Shard the data being published by Microservice A
- ○ Scale Microservice B horizontally

Single Choice

2) Consider you have online store generating orders and an order processing service receiving those orders and sending back confirmations to clients. Which step would best ensure clients are not blocked on the order processor service for confirmations as well as order processor doesn't lose any orders in the event of high volume?

- ○ Defer the execution of requests using asynchronous request-reply communication
- ◉ Defer the execution of requests using asynchronous request-reply communication implemented over a queue-based load level pattern
- ○ Split the order processors using the sharding pattern to handle bursty/overwhelming traffic
- ○ Increase the number of CPUs and memory for host machine running the order processor

Single Choice

3) Which statement is correct about events and commands?

- ◉ Neither an event nor a command can be modified
- ○ Both events and commands can be modified
- ○ An event can be modified, but a command cannot
- ○ An event cannot be modified, but a command can

Single Choice

4) Which statement is correct about events?

- ○ Events are asynchronous by nature and can be modified
- ○ Events are synchronous by nature and can be modified
- ○ Events are synchronous by nature and cannot be modified
- ◉ Events are asynchronous by nature and cannot be modified

Single Choice

5) Bank Co's account opening microservice is used nationwide. However, only one of the bank's regions (District 9) has a customer relationship management (CRM) tool that would like to be notified about account openings. If Bank Co is using an event-driven architecture, what is the best way to accomplish this?

- ◉ Ensure that region is included in the account opening event's topic string, and create a subscription for District 9 that attracts appropriate events
- ○ Create an intermediate microservice that intelligently filters the account opening events
- ○ Include logic in the District 9 CRM that eliminates events from non-District 9 events
- ○ Include logic in the account opening microservice to only emit events for District 9

Single Choice

6) In Bank Co's event driven architecture, the same event triggers 4 microservices: Alpha, Beta, Charlie and Delta. All of the microservices have an associated datastore. Due to an expired credential, microservice Charlie fails to complete successfully on the first attempt. What must happen now?

- ◉ If the event that triggers Charlie remains in the queue, it can be retried, and eventually all datastores will be consistent
- ○ An alert must go out and support personnel will need to manually update the Alpha, Beta and Delta datastores
- ○ Alpha, Beta and Delta datastores roll back automatically and become consistent
- ○ The exact timing and nature of the error will determine the result

Single Choice

7) You have a product catalog database that accepts updates and reads. Due to a successful advertising campaign, there is a huge increase in customers browsing your products. The database reads have increased to a point where the database is unable to cope with the load. The rate of updates has not increased. Which option would you recommend to increase read performance?

- ○ Introduce a new instance of the database that is optimized for reads, synchronized by eventual consistency, to serve browsing customers
- ○ Increase the number of CPUs and memory for the web server
- ◉ Run a cache on AWS. Copy the contents of the database to the AWS cache. Serve the browsing customers off the cache
- ○ Increase the number of CPUs and memory for the database

Single Choice

8) Consider there are two event driven microservices A and B communicating to each other via an Event Broker. A->Broker->B. The fact that services are able to act and scale independently is an example of:

- ◉ Loose Coupling
- ○ Tight Coupling
- ○ No Coupling

Single Choice

9) Given a scenario where you need to design a microservice A that updates state and there exists another microservice B that performs other, un-related, tasks based on that state change. Do you:

- ○ Have B poll A, checking to see if the state has been updated
- ◉ Have A produce an event after the state is updated that B can consume
- ○ Have A call B directly once the state has been updated

Multiple Choice

10) Consider you are tasked to select the next candidate project to transform into real-time event driven solution. What are the top three things you would look for when making the selection? (Choose three)

- ☑ Projects that remove brittleness, or performance issues
- ☑ Projects that can serve as a quick win that will deliver business value
- ☐ Projects that don't involve integration with an iPaaS
- ☑ Projects that cause a medium to high positive business impact
- ☐ Projects that cause a low positive business impact

Single Choice

11) Consider there are two event driven microservices A and B communicating to each other via an Event Broker. A->Broker->B. If Microservice B is unable to keep up with the steady traffic being sent by A what should you do?

- ○ Scale Microservice B horizontally
- ◉ Shard the data being published by Microservice A
- ○ Do nothing, it will eventually catch up

Multiple Choice

12) What are some of the activities that can help bring culture change, awareness, or create intent for an event driven architecture within an organization? (Choose two)

- ☐ Get buy in from stakeholders on an eventing platform and tools
- ☑ Implement a quick proof-of-concept to demonstrate the value of EDA
- ☐ Educate stakeholders on benefits of EDA
- ☑ Organize workshops with Middleware and API team, and LoB team

Multiple Choice

13) What are the key benefits of using event-driven solution? (Choose two)

- ☐ Polling
- ☑ Real-time
- ☑ Asynchronous
- ☐ Batch processing

Single Choice

14) Why is it **not** a good idea to chain microservices together? Example A->B->C.

- ○ Longer latency to get a result from A
- ○ Service A is only available if all of its dependencies are also available
- ◉ All listed options
- ○ Inconsistent state/data

Single Choice

15) Consider you have online store generating orders and an order processing service receiving those orders. Each order is a discrete event. Your organization launched a new product and you want to be able to deploy additional order processors on-demand to share the load of incoming order. Which pattern should be implemented in this scenario?

- (●) Queue-based load leveling pattern
- ( ) Publish-subscribe pattern
- ( ) Competing consumer pattern
- ( ) Asynchronous request-reply pattern

Single Choice

16) There are multiple services performing read operations (queries) on a single database requiring complex views, which is impacting on the write (command) operations. You have decided to implement the CQRS pattern to segregate read database vs write database. Which features must be used with CQRS to ensure eventual consistency of the two databases?

- ( ) Request-reply
- ( ) Publish-subscribe
- (●) Guaranteed delivery
- ( ) Retry logic

Single Choice

17) Consider there are two event driven microservices A and B communicating to each other via an Event Broker. A->Broker->B.

If Microservice A starts sending 100x the normal rate of events, what is the impact on Microservice B.

- ( ) B becomes overloaded with data
- (●) The event broker acts as a shock absorber for B

Time Left: 1h 5m 10s

Single Choice

18) Consider there are two microservices A and B communicating to each other directly via RESTful APIs. A->REST->B
If Microservice A starts sending 100x the normal rate of events, what is the impact on Microservice B?

- ( ) REST by nature will act as a shock absorber for B
- (●) B becomes overloaded with data

Multiple Choice

19) You are implementing a service that can potentially receive duplicates. What can you use to detect duplicates in the requests that you receive? (Choose two)

- [ ] Request sequence number
- [ ] Message payload
- [ ] Message timestamp
- [x] Retransmit flag
- [x] Message ID

Multiple Choice

20) What interaction styles are available using an event-driven architecture? (Choose two)

- [ ] Synchronous request-reply
- [x] Asynchronous request-reply
- [x] Asynchronous publish-subscribe
- [ ] Synchronous publish-subscribe

Multiple Choice

21) What are some of the ways an Event Mesh can support an event driven application architecture? (Choose two)

- [x] Can dynamically push events from on-prem to cloud services and applications
- [ ] Provides you with a single pane glass to view all your distributed applications
- [ ] Connects and choreographs microservice applications
- [x] Enables you to design and track event flows

Multiple Choice

22) What are the key benefits of the Event Portal? (Select all that apply)

- [ ] Prevents architects and developers from sharing and reusing events with each other
- [x] Provides a visual representation of your event flows and event linkages between applications
- [x] Provides you with a single place to design, create, discover, share, secure and manage all events within your ecosystem
- [x] Eliminates the need for cataloging events in spreadsheets

Single Choice

23) Consider the company ACME has a Supply Chain system that is tracking the movement of goods from manufacturer to distribution centers to retailers across all its transportation vehicles, such as trucks and container ships. Which topic template would provide the best flexibility for consumer applications part of this system, and receive location updates for specific vehicle types and specific regions?

- ○ acme/transport/{vehicleID}/{latitude}/{longitude}
- ◉ acme/transport/{vehicleType}/{vehicleID}/{latitude}/{longitude}
- ○ acme/transport/{vehicleType}/{latitude}/{longitude}/{vehicleID}
- ○ acme/transport/{vehicleType}/{latitude}/{longitude}

Associate

24) Solace's Event Driven Methodology has six main steps. Associate these steps with their correct purpose and intent.

Event Driven Design	Decomposing the business flow int... ▾
Real-time Candidate	Identifying projects, applications, a... ▾
Culture, Awareness, Intent	Engaging stakeholders, defining the... ▾
Event Streaming Foundations	Determining which event flow to ge... ▾
Pilot Selection	Identify the eventing platform and t... ▾
Implement Quick Win	Cataloging and advertising events, ... ▾

Single Choice

25) You have an application with the following services: Inventory, Payment and Shipping. You intend to use an event broker to communicate with them. Which kind of interaction should you use for each service?

- ○ Asynchronous for all services
- ◉ Synchronous for Inventory and Payment, asynchronous for Shipping
- ○ Synchronous for all services
- ○ Asynchronous for Inventory and Payment, synchronous for Shipping

Multiple Choice

26) Which of the following topics allow consumers to subscribe to multiple topics? (Choose two)

- [ ] nyctaxi/driver/status
- [ ] nyctaxi/rides/accepted
- [x] nyctaxi/rides/*
- [x] nyctaxi/>

Single Choice

27) Solace's Event Driven Methodology has six main steps, one of them being the Pilot Selection. What the main the purpose of this step in the methodology?

- ( ) To select cloud native services to use for the pilot
- (•) To determine the events and event flows to get started with first and cataloging them for your pilot
- ( ) To select the tools and eventing platform you will be using the pilot
- ( ) To select an Event Broker technology to use for the pilot

Single Choice

28) What is a situation where you would likely want to use a synchronous interaction, rather than an asynchronous interaction?

- ( ) A user updates contact information which needs to be entered into a variety of backend systems
- ( ) An order moves from Salesforce into an SAP backend
- (•) A bank withdraws money from one account and deposits it into another account
- ( ) An Uber driver logs into the app and makes herself available for rideshare

Solace's Event Driven Methodology has six main steps. Associate these steps with their correct purpose and intent.

Event Driven Design Decomposing the business flow into event-driven microservices, and identify events in the process Real-time Candidate Identifying projects, applications, and services that would benefit from an event-driven approach Culture, Awareness, Intent Engaging stakeholders, defining the vision, strategy and roadmap Event Streaming Foundations Identify the eventing platform and tools for your architecture Pilot Selection Determining which event flow to get started with first Implement Quick Win Cataloging and advertising events, and demonstrating agility and responsiveness of applications

Solace的事件驱动方法有六个主要步骤。将这些步骤与其正确的目的和意图相关联。

事件驱动设计 将业务流程分解为事件驱动的微服务，并识别流程中的事件 实时候选人 确定将从事件驱动方法中受益的项目、应用程序和服务 文化、意识、意图 让利益相关者参与进来，定义愿景、战略和路线图 事件流基础 确定体系结构的事件平台和工具 飞行员选择 确定首先开始使用哪个事件流 实施速赢 编目和公布事件，并展示应用程序的敏捷性和响应能力

Associate

24) Solace's Event Driven Methodology has six main steps. Associate these steps with their correct purpose and intent.

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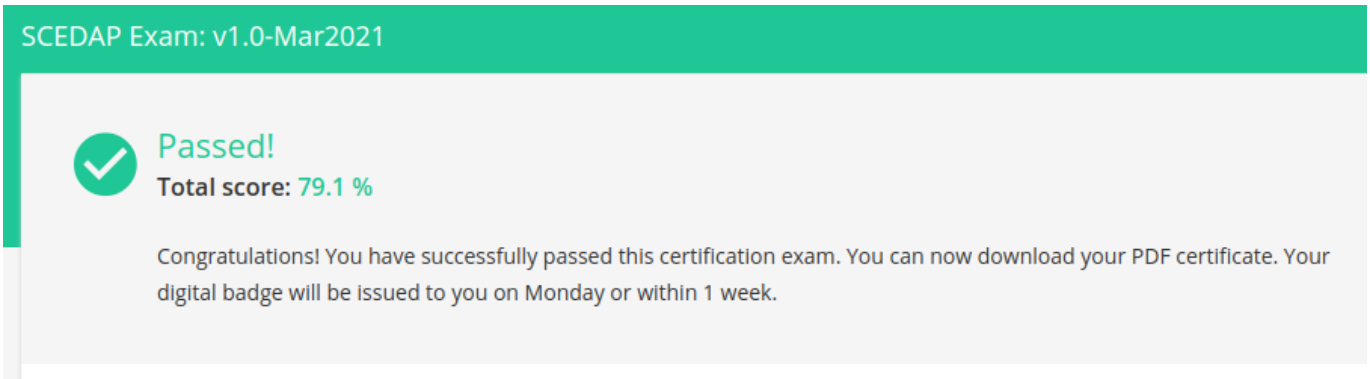

Course completed on 2023-06-24

Solace Certified Event Driven Architecture Practitioner Exam

How would you rate this course?

★★★★★5