

NPTEL » Google Cloud Computing Foundations Course About the Course Announcements Ask a Question Unit 6 - Week 4: There's an API for that! You can't secure the Cloud right? Course outline **Assignment 4** How does an NPTEL online The due date for submitting this assignment has passed. course work? As per our records you have not submitted this assignment. Week 0: Welcome to the Which of the following is the most common API format in GCP? Course O CLI Week 1: What's the cloud □ gRPC anyway? Start with a solid platform REST SOAP Week 2: Use GCP to build No, the answer is incorrect. your apps Score: 0 Feedback: Week 3: Where do I store this REST APIs is the default API format for GCP. It is the most common API format today. Stuff? Accepted Answers: REST Week 4: There's an API for that! You can't secure the 2) What is the purpose of an API? Cloud right? APIs replace web pages Introduction to API APIs create GUI interfaces The Purpose of APIs APIs simplify the way disparate software resources communicate. Cloud Endpoints [With Lab] APIs are non-HTTPS interfaces used to interface with web interfaces. No, the answer is incorrect. Using Apigee Score: 0 Managed Message Services Feedback: APIs are used to simplify the way different, disparate, software resources communicate. APIs provide a Cloud Pub/Sub [With Lab] uniform format for different applications to communicate Recap Quiz - There's an API Accepted Answers: APIs simplify the way disparate software resources communicate. for that! Summary - There's an API for 3) Which of the following is the protocol used by REST APIs? that HTTPS Introduction - Cloud Security RDP Introduction to security in the SSH cloud Telnet Understanding the shared No, the answer is incorrect. security model Score: 0 Feedback: Explore encryption options REST API implementations can make use of standards, such as HTTP, URI, JSON, and XML Understand authentication Accepted Answers: and authorization [With Lab] HTTPS Identify best practices for 4) You are looking for a managed API service for your cloud-based services? Which of these services would meet your needs? authorization Recap Quiz - Security Apigee Edge Cloud Endpoints Summary - Security O CLI Quiz : Assignment 4 gRPC Google Cloud Computing No, the answer is incorrect. Foundations Course: Week 4 Score: 0 Feedback Form Feedback: Cloud Endpoints is a managed API Service used to create web front ends to GCP services Week 5: It helps to Network Accepted Answers: Cloud Endpoints Week 6: It helps to Network (continued) 5) You are looking for a managed API service to provide an API frontend to your legacy systems? Which of these services would meet your needs? Week 7: Let Google keep an Apigee Edge eye on things. You have the Cloud Endpoints data, but what are you doing O CLI with it gRPC Let machines do the work No, the answer is incorrect. Score: 0 **Download Videos** Feedback: Apigee Edge is a platform for developing and managing APIs used for both cloud and legacy systems. Apigee Edge provides an abstraction for your backend service APIs and provides a variety of services include security, rate limiting, quotas, and analytics Accepted Answers: Apigee Edge 6) What are the specifications that Cloud Endpoints supports? CLI gRPC □ IEEE OpenAPI RFC No, the answer is incorrect. Score: 0 Feedback: GRPC and OpenAPI are the two formats that Cloud Endpoints supports Accepted Answers: gRPC **OpenAPI** 7) True or False. Firebase Authentication and Auth0 are two of the utilities Cloud Endpoints uses to support service-to-service and user authentication 1 point True False

No, the answer is incorrect. Score: 0 Feedback: The answer is True. Firebase, Auth0, and Google authentication are all used for service-to-service and user authentication. Accepted Answers: 8) You need a simple and reliable staging location for your event data on its journey towards processing, storage, and analysis. Which one of the following services should you consider? Apigee Edge Cloud Dataflow Cloud Endpoints Cloud Pub/Sub No, the answer is incorrect. Score: 0 Cloud Pub/Sub is global managed service that provides the storage and distribution of messages. Messages use a publish/subscribe delivery format and can be delivered either via push or pull messaging. Pub/Sub can serve as a buffer for applications as messages get processed Accepted Answers: Cloud Pub/Sub 9) What are the types of message delivery supported with Cloud Pub/Sub? Bounce Poll

Pull

Push

Score: 0 Feedback:

Pull Push

Score: 0 Feedback:

Score: 0 Feedback:

○ laaS

PaaS

Score: 0 Feedback:

True

False

Score: 0 Feedback:

False

Score: 0 Feedback:

No, the answer is incorrect.

Through an internal ID

No, the answer is incorrect.

Through a publish/subscribe pattern.

Only data at rest is encrypted

managed or customer supplied keys

Data is encrypted at rest and in transit.

No, the answer is incorrect.

Accepted Answers:

Managed service

No, the answer is incorrect.

No, the answer is incorrect.

be used for non-G Suite users

14) What is the main purpose of a service account?

Allow for service-to-service interaction with GCP

Allow for service-to-service interaction with GCP

15) What do primitive roles grant permissions to?

16) True or False. Admin is an example of a primitive role?

Service accounts allow for the authorization of service-to-service interaction.

Primitive roles, such as Owner, Editor, and Viewer, apply to projects and services..

The answer is False. The primitive roles are Owner, Editor, Viewer, and Billing Administrator

17) When setting up user/role pairings in GCP, which of the following is true?

Permissions are inherited and the least restrictive permission will be inherited

Permissions are inherited and the least restrictive permission will be inherited

GCP uses an inherited permission model. The user will always get the least restrictive permission when

The answer is True. Cloud IAP lets you establish a central authorization layer for applications over TLS, so

Because of inheritance, Google recommends using the "principle of least privilege" when granting roles

you can use an application-level access control model instead of relying on network-level firewalls

19) True or False. Cloud Identity-Aware Proxy (Cloud IAP) allows you to use an application-level access control model instead of relying on network-level 1 point

20) There are a number of best practices that should be applied to identity and access management. Which of the following does Google recommend? 1 point

18) What service is used to supply encryption keys when users want to manage their own keys?

The user will always inherit the stricter permission applied

Give permissions to a group of users

Accepted Answers:

Lock down a user

Create a user in GCP

No, the answer is incorrect.

Accepted Answers:

Folders

Groups

Projects

Score: 0 Feedback:

Projects

True

False

Score: 0 Feedback:

False

Score: 0 Feedback:

inherited.

Score: 0 Feedback:

Accepted Answers:

CloudHSM

Cloud Key Management System

No, the answer is incorrect.

Cloud Key Management System

No, the answer is incorrect.

Use folders to group instances

Use custom roles for all objects

No, the answer is incorrect.

Accepted Answers:

Try to use primitive roles instead of pre-defined roles

Use the "principle of least privilege" when distributing permissions

Use the "principle of least privilege" when distributing permissions

Accepted Answers:

Accepted Answers:

firewalls.

True

False

Score: 0 Feedback:

True

Score: 0

Google is encrypted by default. No keys are required

The customer must bring their own keys and manage them.

Cloud KMS creates encryptions keys in the cloud for customers to manage

Organizations

Accepted Answers:

No, the answer is incorrect.

No, the answer is incorrect.

Permissions are not inherited.

No, the answer is incorrect.

Everyone is a project owner by default

Accepted Answers:

On-premises

Accepted Answers: Managed service

Only data in transit is encrypted.

Data is encrypted at rest and in transit.

Accepted Answers:

Through a publish/subscribe pattern.

Messages have to be pulled by the front end.

Accepted Answers:

Messages can be delivered via push or pull methods

10) How does Cloud Pub/Sub deliver messages to endpoints?

delivered to an application or service to process via a subscription

11) Which statement regarding GCP and data encryption is accurate?

Nothing is encrypted by default. Data must be encrypted by the customer

Managed services usually also manage some of the security burden rather than the user

The answer is False. With Google Groups, if someone leaves the organization or team there's no

centralized way to remove their access to the cloud resources immediately. GCP users who are also G

Suite users can be managed centrally through the Google Admin Console. Alternatively, Cloud Identity can

True or False. Managing GCP users through Google Groups allows an administrator to manage team identities centrally.

By pushing messages to all available endpoints based on an internal list.

Cloud Pub/Sub uses a publisher subscription format. Publishers are services or applications that produce messages to another application to process. When messages are placed in a topic, they will ultimately be

Google encrypts data at rest and in transit by default. The customer can also encrypt data with customer

12) When comparing on-premises, laaS, PaaS, and managed services, which option requires the least amount of work for the user in terms of security? 1 point

Progress

Mentor

1 point

Due on 2020-03-25, 23:59 IST.