Copy of mock L1 quiz

Total points0/61

The respondent's email (**talk2rohithnow@gmail.com**) was recorded on submission of this form.

Name\*

LANKALAPALLI ARUN SAI ROHITH

Which SQL command is used to modify existing data in a database table?

···/1

ALTER

CHANGE

MODIFY

\*\*UPDATE

No correct answers

What will the following code print? my\_list = [1, 2, 3, 4, 5] print(my\_list[2:4])

···/1

[1, 2, 3, 4, 5]

[2, 3, 4]

\*\*[3, 4]

[2, 3]

No correct answers

Which of the following is the correct way to open a file called "data.txt" in read mode in Python?

···/1

\*\*file = open("data.txt", "r")'

file = open("data.txt", "w")'

file = open("data.txt", "a")'

file = open("data.txt", "rb")'

No correct answers

What is a key advantage of using IaC in a CI/CD pipeline?

···/1

It simplifies the development of application code.

It reduces the need for testing and automation.

\*\*It provides a consistent and reproducible way to manage infrastructure.

It eliminates the need for version control.

No correct answers

What is the primary goal of Site Reliability Engineering (SRE)?

···/1

Developing new software features

\*\*Ensuring high system reliability and availability

Marketing and promoting the company's services

Data analysis and reporting

No correct answers

What is the purpose of the GROUP BY clause in SQL?

···/1

To sort the result set in ascending order

\*\*To group rows that have the same values into summary rows

To join two or more tables

To select specific columns from a table

No correct answers

Which type of data is typically represented in a structured format with a well-defined schema?

···/1

Unstructured data

Semi-structured data

\*\*Structured data

Streaming data

No correct answers

Which of the following is a core service provided by all major cloud providers?

···/1

\*\*Virtual Machines

Blockchain

Augmented Reality (AR) tools

Desktop applications

No correct answers

In Oracle SQL, what does the JOIN operation do?

···/1

\*\*Combines rows from two or more tables based on a related column between them

Creates a new table with the combined data from multiple tables

Deletes rows from a table

Renames columns in a table

No correct answers

In Terraform, what is the purpose of the locals block in a configuration file?

···/1

To define global variables

To declare provider settings

To store sensitive information

\*\*\*To define reusable expressions or values

No correct answers

What is the term for the practice of managing cloud resources as code?

···/1

Cloud scripting

Cloud Management

\*\*Infrastructure as Code (IaC)

Cloud provisioning

No correct answers

What type of data sources are most commonly integrated into Data Warehouses?

···/1

Raw and unstructured data

\*\*\*Structured data from various business applications

Sensor data

Images and multimedia content

No correct answers

What does the len() function in Python do?

···/1

It calculates logarithms.

\*\*It returns the length of a list, string, or any iterable.

It returns the largest element in a list.

It converts a string to lowercase.

No correct answers

Which practice in SRE involves writing code for automated scaling based on traffic or demand?

···/1

Disaster recovery planning

\*\*\*Capacity planning

Code deployment

Incident management

No correct answers

pipeline {  agent…  stages…  step..  } In Which do we need to execute the code ?

···/1

In Stages and Stage

In Pipeline Block

\*\*Inside Stage Step Block

In Stages

No correct answers

What is the purpose of the if statement in a UNIX shell script?

···/1

To declare variables

To repeat a block of code

\*\*To perform conditional execution based on a test condition

To define functions

No correct answers

Which of the following is not a common layer in the Hadoop ecosystem for big data processing?

···/1

HDFS (Hadoop Distributed File System)

YARN (Yet Another Resource Negotiator)

Hive

\*\*Apache Kafka

No correct answers

What is the purpose of a shebang (#!/bin/bash) at the beginning of a UNIX script?

···/1

To specify the script's author

To add comments to the script

\*\*\*To indicate the interpreter to use for running the script

To define global variables for the script

No correct answers

In a typical CI/CD pipeline, what is the role of "artifact repositories"?

···/1

A place to store development logs

A storage location for infrastructure code templates

A tool for monitoring infrastructure performance

\*\*A place to store and manage deployment artifacts and other assets

No correct answers

Which of the following is a popular distributed VCS commonly used for managing IaC code repositories?

···/1

Subversion (SVN)

\*\*Git

Mercurial

CVS

No correct answers

Which type of cloud deployment model involves a shared infrastructure with multiple organizations?

···/1

\*\*Public cloud

Private cloud

Hybrid cloud

Community cloud

No correct answers

What is the purpose of the PRIMARY KEY constraint in a database table?

···/1

\*\*To prevent duplicate values in a column

To allow NULL values in a column

To create an index on a column

To define a foreign key relationship

No correct answers

What is the primary benefit of Infrastructure as a Service (IaaS) in cloud computing?

···/1

Fully managed applications

Serverless computing

\*\*Easily scalable infrastructure

Microservices architecture

No correct answers

What is the purpose of the docker pull command in Docker?

···/1

To push images to a Docker registry

To create a new Docker image

To build a Docker container

\*\*To download a Docker image from a registry

No correct answers

What is Ansible primarily used for in the context of IT and DevOps?

···/1

Continuous integration

\*\*\*Configuration management and automation

Version control

Containerization

No correct answers

Git Merge Branch Name (What will does this Command)

···/1

Merging all the branches

Meging all the files

\*\*Merging all the files and commit IDS in a particular branches

Merging only Commit IDS

No correct answers

Which Ansible module is used to manage and install software packages on remote hosts?

···/1

yum

file

\*\*Package

user

No correct answers

What is the primary service model that provides virtualized computing resources in the cloud?

···/1

\*\*Infrastructure as a Service (IaaS)

Software as a Service (SaaS)

Platform as a Service (PaaS)

Function as a Service (FaaS)

No correct answers

What is the primary goal of Continuous Integration (CI) in DevOps?

···/1

To automatically deploy changes to production

To automate infrastructure provisioning

\*\*To regularly integrate code changes into a shared repository and test them

To create development environments

No correct answers

What does the Lambda Architecture in big data refer to?

···/1

\*\*A multi-tiered data processing architecture for real-time and batch data

An architecture for connecting data centers in different geographical regions

A cloud-based storage solution for structured data

A data compression technique for reducing storage costs

No correct answers

pipeline {     agent any     stages {         stage('Example') {           agent { docker 'maven:3-alpine' }               steps {                  sh 'mvn clean package'             }         }     } } What is expectation of the mvn clean package command

···/1

\*\*To Build a package

To Install package

To Deploy Package

To pushing package in repository

No correct answers

Which cloud provider offers the Google Kubernetes Engine (GKE) service for container orchestration?

···/1

Microsoft Azure

AWS

\*\*Google Cloud Platform

IBM Cloud

No correct answers

Which Docker command is used to create a new container from an image and start it?

···/1

docker create

docker start

\*\*docker run

docker build

No correct answers

What is the purpose of the docker stop command in Docker?

···/1

To remove a stopped container

To pause a running container

To restart a container

\*\*To stop a running container

No correct answers

In Oracle SQL, which keyword is used to retrieve data from a database table?

···/1

LOAD

\*\*SELECT

FETCH

RETRIEVE

No correct answers

Which of the following best describes the schema approach used in Data Warehouses?

···/1

Schema-on-read

\*\*\*Schema-on-write

No schema required

Schema-less

No correct answers

What is the primary purpose of a Version Control System (VCS) in the context of Infrastructure as Code (IaC)?

···/1

\*\*To manage and track changes to infrastructure resources

To provision and configure infrastructure

To automate testing and deployment

To monitor infrastructure performance

No correct answers

What is a "pull request" in the context of Git and VCS for IaC?

···/1

A request to delete a repository

\*\*A request to merge changes from one branch into another

A request for increased network bandwidth

A request for additional storage space

No correct answers

What is the purpose of the docker-compose up command in Docker Compose?

···/1

To list all Docker Compose services

To build Docker Compose services

\*\*To start and orchestrate multiple containers defined in a docker-compose.yml file

To remove all Docker Compose containers

No correct answers

In a VCS, what is a "conflict" when merging changes from different branches?

···/1

A software bug

\*\*\*A situation where the VCS cannot automatically merge changes and requires manual resolution

A security vulnerability

A server error

No correct answers

Which command is used to make a script file executable in UNIX?

···/1

\*\*\*chmod +x

make

exec

run

No correct answers

In Python, what is a common way to schedule and automate data processing tasks?

···/1

Using the for loop

Using the while loop

\*\*Using cron jobs

Manually running scripts

No correct answers

Which file is used in Ansible to define tasks, plays, and configurations for automation?

···/1

inventory.ini

\*\*playbook.yml

roles.yml

ansible.cfg

No correct answers

What is the purpose of an Ansible playbook?

···/1

To execute ad-hoc commands on remote hosts

To define a list of hosts in an inventory file

\*\*\*To define a series of tasks and configurations for automation

To define variables for use in roles

No correct answers

Which Python library is commonly used for handling large datasets and performing data manipulation tasks?

···/1

\*\*Pandas

Matplotlib

NumPy

SciPy

No correct answers

What is an Ansible role?

···/1

A specific version of Ansible software

A playbook for a single task

\*\*A reusable collection of tasks and configurations

A host inventory file

No correct answers

What is the primary purpose of a Data Warehouse (DW)?

···/1

Storing raw and unstructured data

Real-time data processing

\*\*Structured data storage for reporting and analysis

Scalable data storage

No correct answers

Which Terraform command is used to preview changes without actually applying them?

···/1

\*\*terraform plan

terraform preview

terraform check

terraform validate

No correct answers

What is the primary purpose of Infrastructure as Code (IaC) in SRE?

···/1

Creating artistic code

Managing hardware inventory

\*\*Defining infrastructure configurations in code

Writing user manuals

No correct answers

What does the SQL statement SELECT \* FROM employees; do?

···/1

Deletes all records in the "employees" table

Updates all records in the "employees" table

\*\*\*Retrieves all columns and rows from the "employees" table

Adds a new column to the "employees" table

No correct answers

Which of the following is not a valid Python variable name?

···/1

myVariable

my\_variable

\*\*2nd\_variable

\_private\_variable

No correct answers

Which Docker command is used to list all running containers?

···/1

docker list

\*\*docker ps

docker ls

docker containers

No correct answers

How do you initialize a Terraform project?

···/1

terraform shutdown

\*\*terraform init

terraform ini

terraform apply

No correct answers

SRE is often associated with which technology company, where it was first introduced as a concept?

···/1

\*\*Google

Amazon

Facebook

Microsoft

No correct answers

Which SQL clause is used to filter records in a SELECT statement based on a specified condition?

···/1

ORDER BY

GROUP BY

HAVING

\*\*WHERE

No correct answers

Which practice in CI/CD involves automatically testing and verifying code changes in a production-like environment before deployment?

···/1

Continuous Integration (CI)

Continuous Deployment (CD)

\*\*Continuous Testing (CT)

Continuous Monitoring (CM)

No correct answers

Which programming model is commonly associated with big data processing using MapReduce?

···/1

Object-oriented programming

\*\*Functional programming

Procedural programming

Imperative programming

No correct answers

Which of the following is NOT one of the three Vs in Big Data?

···/1

Velocity

Volume

Variety

\*\*\*Validity

No correct answers

Which of the following is a key characteristic of cloud computing?

···/1

Limited scalability

On-premises hosting

\*\*\*Pay-as-you-go pricing

Slow and unreliable internet connection

No correct answers

What is a Virtual Private Cloud (VPC) commonly referred to in AWS, Azure, and GCP?

···/1

A secure connection to on-premises data centers

\*\*A private network within the cloud provider's infrastructure

A public internet connection

A physical server in the cloud provider's data center

No correct answers