- 1)Match the following terms about the building blocks of Lambda based applications to their respective definitions.
- --Lambda function

The foundation, it is comprised of your custom code and any dependent libraries

Event source

An AWS service, such as Amazon SNS, or a custom service, that triggers your function and executes its logic

# Downstream resources

An AWS service, such as DynamoDB tables or Amazon S3 buckets, that your Lambda function calls once it is triggered

Log streams

Annotate your function code with custom logging statements that allow you to analyze the execution flow and performance of your Lambda function to ensure it's working properly\

- 2)As described by our course, which of the following are lifecycles of developing a Lambda function
- --Uploading code and creating Lambda functions Authoring code for your Lambda function Monitoring and troubleshooting
- 3)When using AWS Lambda, are you responsible for the underlying infrastructure that is running your code?
- --False
- 4)Can a lambda function linearly scale with the amount of requests given to it, if you allow it to do so?
- --true
- 5)As outlined in the our course, which of the following languages are not supported by AWS Lambda
- --Ruby
- 6)Of the following, which is NOT an instance wherein you would have to restore from backup?
- -- Testing changes is too time consuming
- 7)In MongoDB, databases are called collections. -- True
- 8)MySQL is an open-source \_\_\_\_\_\_ database management system. --relational
- 9)\_\_\_\_\_ is an in-memory key value database store.
- 11)PostgreSQL is known for lacking features and being unreliable under high use situations?
- --False
- 12)Which of the following is NOT a Cloud Database Service?
- --Microsoft Pro

13)A database \_\_\_\_\_\_ is the underlying software component that a DBMS uses to create, read, update and delete data from a database.

--engine

14)Every database should have multiple users act as an administrator to manage them better.

--False

15)Which of these is NOT a privledge level that can be given to MySQL users: --Root Query

16)According to our course, please match the 12 factors to a 12 Factor App with their descriptions

--Codebase

There should be exactly one codebase for a deployed service with the codebase being used for many deployments.

### Dependencies

All dependencies should be declared, with no implicit reliance on system tools or libraries

#### Config

Configuration that varies between deployments should be stored in the environment.

### Backing services

All backing services are treated as attached resources and attached and detached by the execution environment.

# Build, release, run

The delivery pipeline should strictly consist of build, release, run.

### Processes

Applications should be deployed as one or more stateless processes with persisted data stored on a backing service.

# Port binding

Self-contained services should make themselves available to other services by specified ports.

### Concurrency

Concurrency is advocated by scaling individual processes.

# Disposability

Fast startup and shutdown are advocated for a more robust and resilient system.

#### Dev/Prod parity

All environments should be as similar as possible.

### Logs

Applications should produce logs as event streams and leave the execution environment to aggregate.

# Processes

Any needed admin tasks should be kept in source control and packaged with the application.

- 17)According to our course, what are some potential issues with failing to meet your SLA?
- -- Loss of Clients / Work Liabilities For Damage Cash Penalties
- 18)According to our course, can 2 buckets share the same name in a region? --False
- 19)According to our course, S3 stands for \_\_\_\_\_\_.
  --Simple Storage Service
- 20)According to our course, an SLA is a contract between you and your \_\_\_\_\_.
  --customers
- 21)According to our class, match the following zone file record types to their given definition  $% \left( 1\right) =\left( 1\right) +\left( 1\right) +\left($
- --@ Record

The Root record for your domain.

MX Record

Where the mail server is hosted for your domain

A Record

Returns a 32-bit IPv4 address, most commonly used to map hostnames to an IP address of that host

AAAA Record

Returns a 128-bit IPv6 address, most commonly used to map hostnames to an IP address of that host

- 22)According to our class, which of the following are a PRIVATE network address?
  --172.16.32.54
  192.168.0.6
  10.255.248.52
- 23)According to our class, was IPv5 ever completed and implemented worldwide? --False
- 24)What does the acronym SAN stand for in the context of Cloud Computing? --Storage Area Network
- 25)Why would a Cloud Provider company opt to mainly go with Virutalization over strictly renting out entire servers?
- --Allows coordination and managment of all virutal servers on the network Allows for the seemless creation of virtual servers via an API endpoint Allows coordination and managment of all virutal servers on the network Allows a single server to share it's resources with mutliple virtual server
- 26)What does the acronym TCO stand for in the context of this course? --Total Cost of Ownership
- 27)What was one of the main contributing factors to the Y2K Bug --Programmers saved memory by only using 2 digits to encode dates
- 28)What were the main contributing factors to the Dot-Com Bubble Burst?
  --Barron's featured a cover article titled "Burning Up; Warning: Internet companies are running out of cash—fast"
  Micrsoft being ruled guility of Monopolization

pets.com closing 29)According to this course, as of 2022 which services does Microsoft Azure currently offer? --IaaS PaaS SaaS 30)According to this course, which of the follow are types of clouds? --Private Cloud Public Cloud Hybrid Cloud 31)As defined by our lecture, what does the acronym CRAC stand for? -- Computer Room Air Conditioner 32)According to this course, as of 2022 which services does DigitalOcean currently offer? --Laas 33)According to this course, as of 2022 which services does Google Cloud Platform currently offer? --SaaS IaaS PaaS 34)As defined by our course, the acronym RISC stands for \_\_\_\_\_. -- Reduced Instruction Set Computer 35) As defined by our course, what is a Type 2 Hypervisor? -- A Hypervisor that installs inside a Host Operating System 36)As defined by our course, a \_\_\_\_\_ is another guest operating system that's consuming too many system resources on a shared host Hypervisor. --noisy neighbour 37) As defined by our course, match the following: -- Input/Output Operations Per Second Hard Disk Drive HDD Solid State Drive SSD Elastic Block Storage **EBS** 38)As defined by our course, the acronym CISC stands for \_\_\_\_\_\_. -- Complex Instruction Set Computer 39) As defined by our course, what is a Emulator Hypervisor? --A Hypervisor that only supports a specific set of hardware 40)As defined by our course, FLOSS Stands for \_\_\_\_\_ (including the slash). --Free/Libre Open Source Software 41)As defined by our course, the acronym VM stands for \_\_\_\_\_. --Virtual machine 42) As defined by our course, what is a Type 1 Hypervisor? --A Hypervisor that installs onto Bare Metal 43)As defined by our course, a \_\_\_\_\_ is a virtual machine that is kept in lock

The Y2K Bug

```
--hot spare
44)If the object a symbolic link is pointed to is moved, the symbolic link will
break.
--True
45) Which variable file should you check first if something goes wrong in Linux?
--/var/log
46)Where would we use VIM most often?
--When editing files remotely on a server.
47) Which file system is used for server farms?
--Global File System (GFS)
48) Which of these is NOT a package manager?
--BSB
49) This cell type has a write capacity of 10,000 Planar and 35,000 3D NAND
50)Which of the following is NOT one of the three Linux kernels?
--Megalithic
                      _ file system keeps track of changes in a journal before
committing them to the main filesystem.
--journaled
                         ____ is a collection of software tools that automate the
process of installing, upgrading, configuring and removing computer programs.
--package manager
                             ____ keeps track of read and write requests from the
53)The
individual file system implementations and the physical devices.
--buffer cache
54)According to our class, this special character ____ is used to catch the
previously ran commands Exit Code
--$?
55)According to our class, which permission bit is required to be set for a script
to be able to run?
--Execute Bit
56)According to our class, what command changes the ownership of a file?
--chown
57)According to our class, ______ is a called a shebang and resides at
the top of a BASH script.
--#!/bin/bash
58)According to our class, which of the following are groups of permissions on a
file?
--User Permissions
 Other Permissions
 Group Permissions
```

59)According to our class, match the following commands with what their function is

step in another availablity zone.

list all contents of the folder in alphabetical order --ls Will display the manually for the command that is being man <COMMAND> supplied as an argument Allows paging through text one screen at a time cp <file> <file\_destination> Copies a file from source to target 60)According to our class, what does BASH stand for? --Bourne-Again-Shell 61)According to our class, match the following symbols with their names --! Tilde ı Pipe Tack 62)According to our class, match the following permission short hands to their meaning -- r read permission write permission W execute permission Х no permission

63)According to our class, which are the following are standard streams?

--Standard Input (stdin) Standard Error (stderr) Standard Output (stdout)