

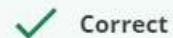
# Practice Quiz: Automating Cloud Deployments

TOTAL POINTS 5

1. In order to detect and correct errors before end users are affected, what technique(s) should we set up?

1 / 1 point

- ☒ Monitoring and alerting
- ☐ Orchestration
- ☐ Autoscaling
- ☐ Infrastructure as Code



**Correct**

You got it! Monitoring and alerting allows us to monitor and correct incidents or failures before they reach the end user.

2. When accessing a website, your web browser retrieves the IP address of a specific node in order to load the site. What is this node called?

1 / 1 point

- ☐ Gate node
- ☒ Entry point
- ☐ Access machine
- ☐ Front line

✓ **Correct**

Awesome! When you connect to a website via the Internet, the web browser first receives an IP address. This IP address identifies a particular computer: the entry point of the website.

3. What simple load-balancing technique just assigns to each node one request at a time?

1 / 1 point

- ☐ Random
- ☒ Round Robin
- ☐ Least connections
- ☐ Source IP

✓ **Correct**

Right on! Round-robin load balancing is a basic way of spreading client requests across a server group. In turn, a client request will be forwarded to each server. The load balancer is directed by the algorithm to go back to the

✓ **Correct**

Right on! Round-robin load balancing is a basic way of spreading client requests across a server group. In turn, a client request will be forwarded to each server. The load balancer is directed by the algorithm to go back to the top of the list and repeat again.

4. Which cloud automation technique spins up more VMs into instance groups when demand increases, and shuts down VMs when demand decreases?

1 / 1 point

- ☐ Infrastructure as Code
- ☒ Autoscaling
- ☐ Load Balancing
- ☐ Orchestration

✓ **Correct**

Way to go! Autoscaling helps us save costs by matching resources with demand automatically.

5. Which of the following are examples of orchestration tools used to manage cloud resources as code? (Check all that apply)

1 / 1 point

☒ Terraform



**Correct**

Woohoo! Like Puppet, Terraform uses its own domain specific language (DSL), and manages configuration resources as code.

☒ CloudFormation



**Correct**

Nice job! CloudFormation is a service provided by Amazon to assist in modeling and managing AWS resources.

☒ Azure Resource Manager



**Correct**

Excellent! Azure Resource Manager is the deployment and management service for Azure. It provides a management layer that enables you to create, update, and delete resources.

☐ CloudFlare