

HashiCorp Consul Associate

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Latest Version: 6.0

Question: 1

Scenario: You are storing configuration settings for your application in Consul's K/V store, and each setting is critical to the successful implementation of the application. A developer recently updated the value for app1, causing the deployment to fail.

What Consul feature can be used to monitor the K/V store for updates and automatically take action to remediate the issue?

Response:

- A. use the raft consensus protocol to replicate the changes from the other nodes when a value is changed
- B. set up health checks to monitor for changes to the K/V store
- C. configure a watch and execute a script to update the application
- D. set up an ACL to automatically restart the Consul service when a value is changed

Answer: C

Question: 2

In the Enterprise offering of Consul, a server agent can be either a voting or non-voting member of the cluster. Select the statements below that are true in regards to a non-voting member.

(select three)

Response:

- A. a non-voting member still receives replicated data
- B. a non-voting member does not participate in the Raft quorum
- C. a non-voting member can be automatically promoted to a voting member
- D. a non-voting member does not receive replicated data
- E. a non-voting member participates in the Raft quorum
- F. a non-voting member cannot be automatically promoted to a voting member

Answer: ABC

Question: 3

During leadership election, which members in the local datacenter get a vote to elect a new leader?

Response:

- A. Consul clients
- B. Consul servers and clients
- C. Consul server nodes
- D. Consul servers, read-only server nodes, and clients

Answer: C

Question: 4

After enabling `auto_encrypt`, where do Consul clients store the certificates that are automatically generated by the Consul CA?

Response:

- A. in the same directory of the Consul agent configuration
- B. the local certificate store on the client
- C. on the root drive on the client in the `.consul` directory
- D. they are stored in memory

Answer: D

Question: 5

After enabling Consul ACLs, what are two ways that you can supply the token when executing a Consul command on the CLI?

(select two)

Response:

- A. set the Consul ACL token using the `consul operator token` command
- B. append the flag `-token` at the end of each command
- C. configure the token in the configuration file
- D. set the environment variable `CONSUL_HTTP_TOKEN`

Answer: BD

Question: 6

What command can be used for new Consul agents to become a member of an existing cluster?

Response:

- A. `consul cluster -join`
- B. `consul connect`
- C. `consul exec -join`

D. consul join

Answer: D

Question: 7

What are the benefits of using the Consul Enterprise feature of adding non-voting servers in a redundancy zone to your Consul datacenter?

Choose two correct answers.

Response:

- A. Read-scalability
- B. Redundancy
- C. Increase quorum
- D. Segment your network
- E. Disaster recovery

Answer: AB

Question: 8

Which of the following features are NOT enabled by default when first deploying Consul?

Response:

- A. service discovery
- B. service mesh (connect)
- C. ACLs
- D. gossip encryption
- E. K/V store

Answer: BCD

Question: 9

Your security team has established company policies that require encryption keys to be rotated at least once a year for all applicable systems. Consul has been identified as an affected system, and the encryption key for gossip must be rotated across the entire environment.

However, you have multiple Consul clusters, each consisting of five Consul nodes and hundreds of services registered with Consul, each of which has the gossip key explicitly written to the configuration file.

What built-in Consul feature allows you to distribute a new encryption key to all the servers and nodes and remove the old one?

Response:

- A. use the consul keyring command
- B. use consul maint command
- C. use consul exec command
- D. use the consul keygen command

Answer: A

Question: 10

You can query for services using the following HTTP API call.

```
$ curl http://localhost:8500/v1/catalog/service/web
```

The following response is returned:

```
{
  "ID": "82f64bfa-22c2-5727-0f5d-0bae376f6584",
  "Node": "Judiths-MBP.lan",
  "Address": "127.0.0.1",
  "Datacenter": "dc1",
  "TaggedAddresses": {
    "lan": "127.0.0.1",
    "wan": "127.0.0.1"
  },
  "NodeMeta": {
    "consul-network-segment": ""
  },
  "ServiceKind": "",
  "ServiceID": "web",
  "ServiceName": "web",
  "ServiceTags": ["rails"],
  "ServiceAddress": "",
  "ServiceWeights": {
    "Passing": 1,
    "Warning": 1
  },
  "ServiceMeta": {},
  "ServicePort": 80,
  "ServiceEnableTagOverride": false,
  "ServiceProxyDestination": "",
  "ServiceProxy": {},
  "ServiceConnect": {},
  "CreateIndex": 10,
  "ModifyIndex": 10
}
```

You want to retrieve a list of healthy instances of the service. Fill in the blank in the following command:

curl http://localhost:8500/v1/health/service/web_____

Response:

- A. ?healthy
- B. ?valid-only
- C. ?available=true
- D. ?passing
- E. ?failing=false

Answer: D

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