BTA Certified Blockchain Developer - Hyperledger

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Question 1

Level DB is the default database for Hyperledger Fabric and is particularly appropriate when ledger states comprise what type of data?

Options:

A. Complex key-value pairs

B. Rich Queries

C. JSON data pairs

D. Simple key-value pairs

Answer: D

Explanation:

Simple key-value pairs - LevelDB is the default and is particularly appropriate when ledger states are simple

key-value pairs. A LevelDB database is closely co-located with a network node – it is embedded within the same operating system process. CouchDB is a particularly appropriate choice when ledger states are structured as JSON documents because CouchDB supports the rich queries and update of richer data types

often found in business transactions. Implementation-wise, CouchDB runs in a separate operating system process, but there is still a 1:1 relation between a network node and a CouchDB instance. All of this is invisible

to chaincode.
Reference: https://hyperledger-fabric.readthedocs.io/en/release-1.3/ledger/ledger.html

Question 2

When creating a network according to an organization's structure and also bootstrap a channel what are the

following artifacts we would need to generate?

Options:

A. Genesis Block, License File and Anchor Peer Configs for each organization.

B. Genesis Block, ledger Configuration and Anchor Peer Configs for each organization.

C. Genesis Block, Channel Configuration and Anchor Peer Configs for each organization.

D. Genesis Block, Channel Configuration and Anchor MSP Configs for each organization.

Answer: C

Explanation:
To create a network according to an organization's structure, and to bootstrap a channel, we will need to generate the following artifacts: A genesis block, containing organization-specific certificates that serve to initialize the Fabric blockchain. Channel configuration information. Anchor peer configurations for each organization. An anchor peer serves as a fulcrum within an organization, for cross-organization ledger syncing
using the Fabric gossip protocol.

Question 3

Which Hyperledger tool would you select to invoke, deploy or query blocks, transactions and associated data,
network information (name, status, list of nodes), chain codes and transaction families, as well as other relevant
information stored in the ledger?

Options:

A. Hyperledger Quilt

B. Hyperledger Cello

C. Hyperledger Caliper

D. Hyperledger Explorer

Answer: D

Explanation:
Hyperledger explorer: Hyperledger explorer, which was originally contributed by IBM, Intel, and DTCC, can view, invoke, deploy or query blocks, transactions and associated data, network information (name, status, list
of nodes), chain codes and transaction families, as well as other relevant information stored in the ledger.

Question 4

Blockchain services consists of three major components.
What are they? (Select three.)

Options:

A. Consensus Manager

B. Distributed Ledger

C. Peer to Peer Protocol

D. Reputation Manager

E. Membership Services

Answer: A, B, C

Explanation:
1. P2P Protocol is implemented over HTTP/2 standards and uses Google RPC.. P2P components define messages used by peer nodes, from point to point to multicast. 2. Distributed Ledger manages the world state
and the transaction log in the blockchain. 3. Consensus Manager defines the interface between the consensus
algorithm and the other Hyperledger components.

Question 5

The gossip data dissemination protocol performs which three functions? (Choose three.)

Options:

A. Manages peer discovery and channel membership

B. Disseminates ledger data across all peers on the channel

C. Manages channel membership only

D. Sync ledger state across all peers on any channel

E. Sync ledger state across all peers on the channel

F. Manages peer discovery only

Answer: A, B, E

Explanation:
Gossip Protocol The gossip data dissemination protocol performs three functions Manages peer discovery and
channel membership Disseminates ledger data across all peers on the channel Syncs ledger state across all
peers on the channel.

Reference: https://hyperledger-fabric.readthedocs.io/en/v1.1.0-alpha/gossip.html

Question 6

What Hyperledger sponsored tool is a new open-source application development framework, which simplifies

the creation of Hyperledger Fabric blockchain applications, thus reducing the time and complexity of development.

The tool aims at helping users to create blockchain applications based on Hyperledger Fabric without needing

to know the low-level (Go Programming) details involved in blockchain networks?

Options:

A. Hyperledger Quilt

B. Hyperledger Composer

C. Hyperledger Explorer

D. Hyperledger Cello

Answer: B

Explanation:

There is a new open-source application development framework, which simplifies the creation of Hyperledger

Fabric blockchain applications, thus reducing the time and complexity of development. The tool aims at helping

users to create blockchain applications based on Hyperledger Fabric without needing to know the low-level (Go

Programming) details involved in blockchain networks.

Question 7

The CA (Certificate Authority) in Hyperledger Fabric issues the certificates. These certificates are used for identity validation and for transmission of encrypted data that only the owner (person, organization or software)

of a specific certificate is able to decrypt and read.

What types of certificates are issued by the CA?

Options:

A. tcert

B. ecert

C. rootcert

Answer: A, B, C

Explanation:

Rootcert, tcert and ecert. As The CA (Fabric CA by default) issues a root certificate (rootCert) to each member

(organization or individual) that is authorized to join the network. The CA also issues an enrollment certificate

(eCert) to each member component, server-side applications and occasionally end users. Each enrolled user is

granted an allocation of transaction certificates (tCerts). Each tCert authorizes one network transaction.

Question 8

Hyperledger Composer has the following two main components.

Options:

A. Composer Framework and a Business Network Archive

B. Composer Playground and a Business Network Configuration

C. Composer Playground and a Business Network Archive

D. Distributed Ledger and a Business Network Archive

E. Distributed Ledger and Composer playground

Answer: C

Explanation:

There are two parts: 1. Business Network Archive which essentially captures the core data in a business network, including the business model, transaction logic, and access controls, the Business Network Archive

packages these elements up and deploys them to a runtime. Business Network Archive files are stored as ".bna" files. AND 2. Composer Playground which is web-based tool allows developers to learn Hyperledger Composer, model out their business network (domain), test that network, and deploy that network to a live instance of a blockchain network. The playground keeps the development model in browser storage, allowing

them to be easily uploaded or downloaded.

Question 9

The Hyperledger Fabric framework is implemented on what programming environment?

Options:

A. C++

B. Node.js

C. Go

D. PHP

E. Javascript

F. Python

Answer: C

Explanation:
Reference: https://hyperledger-fabric.readthedocs.io/en/release-1.3/prereqs.html

Question 10

You would like to download Hyperledger Fabric.
What would be the command to start the process?

Options:

A. ftp clone https://github.com/hyperledger/fabric.sh

B. git clone https://github.com/hyperledger/fabric.git

C. ftp clone https://github.com/hyperledger/fabric.git

Answer: B

Explanation:
Reference: https://github.com/hyperledger/fabric.git

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