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IBM

C1000-068

Foundations of IBM Blockchain Platform V2

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Question: 1

Which type of network participant is responsible for endorsing transactions in the IBM Blockchain Platform?

A. Peers
B. Orderers
C. Certificate Authorities (CAs)
D. Administrators

Answer: A

Explanation: Peers are the type of network participant responsible for endorsing transactions in the IBM Blockchain Platform. Peers maintain a copy of the blockchain ledger and execute chaincode to validate and endorse transactions. When a transaction is submitted to the network, it is first sent to the endorsing peers, which execute the associated chaincode, verify its validity, and produce an endorsement signature. The endorsements are collected and used during the consensus process to determine the final validity and ordering of transactions.

Question: 2

Which programming language is commonly used for developing smart contracts on the IBM Blockchain Platform?

A. Java
B. Python
C. Solidity
D. JavaScript

Answer: C

Explanation: Solidity is the programming language commonly used for

developing smart contracts on the IBM Blockchain Platform. Solidity is a statically typed, contract-oriented language specifically designed for writing smart contracts on the Ethereum platform. It provides a syntax similar to JavaScript and has extensive support for contract-oriented programming concepts. With Solidity, developers can define the behavior and logic of their smart contracts, enabling the execution of complex business logic on the blockchain.

Question: 3

What is the purpose of the IBM Blockchain Platform Console?

A. It provides a user-friendly interface for creating smart contracts.
B. It allows users to monitor the performance and health of the blockchain network.
C. It enables the integration of external data sources with the blockchain network.
D. It facilitates the exchange of digital assets between different blockchain networks.

Answer: B

Explanation: The purpose of the IBM Blockchain Platform Console is to allow users to monitor the performance and health of the blockchain network. The console provides a user-friendly interface that displays real-time information about the network's nodes, channels, smart contracts, and transaction activity. It allows users to track metrics, view logs, analyze network performance, and troubleshoot issues. The console plays a vital role in managing and maintaining the overall health and efficiency of the blockchain network.

Question: 4

Which component of the IBM Blockchain Platform is responsible for ordering and packaging transactions into blocks?

A. Peer nodes
B. Orderer nodes
C. Certificate Authority (CA)
D. Client applications

Answer: B

Explanation: The component of the IBM Blockchain Platform that is responsible for ordering and packaging transactions into blocks is the Orderer nodes. Orderer nodes play a crucial role in the consensus mechanism of the blockchain network. They receive transaction proposals from client applications, order them based on predefined rules, package them into blocks, and distribute the blocks to the peer nodes for validation and commitment to the ledger. The orderer nodes ensure the chronological order and consistency of transactions within the blockchain network.

Question: 5

In the context of Hyperledger Fabric, what is the role of an ordering service?

A. To validate and endorse transactions before they are added to the blockchain.
B. To manage the membership and access control within the blockchain network.
C. To maintain the shared ledger and order transactions into blocks.
D. To execute the chaincode and enforce the smart contract logic.

Answer: C

Explanation: The role of an ordering service in Hyperledger Fabric is to

maintain the shared ledger and order transactions into blocks. The ordering service is responsible for collecting transactions from the network's peers, sequencing them in a specific order, and packaging them into blocks. These blocks are then distributed to the peers for validation and commitment to the blockchain. By providing a consistent ordering of transactions, the ordering service ensures that all peers have an identical view of the blockchain history, enabling consensus and consistency in the network.

Question: 6

Which type of consensus algorithm is used by Hyperledger Fabric to validate transactions?

A. Proof of Work (PoW)
B. Proof of Stake (PoS)
C. Practical Byzantine Fault Tolerance (PBFT)
D. Delegated Proof of Stake (DPoS)

Answer: C

Explanation: Hyperledger Fabric uses the Practical Byzantine Fault Tolerance (PBFT) consensus algorithm to validate transactions. PBFT is a consensus algorithm designed to tolerate Byzantine faults, which include arbitrary failures or malicious behavior by network participants. PBFT ensures that transactions are agreed upon by a certain number of validating peers before they are considered valid and added to the blockchain. This consensus mechanism provides a high level of fault tolerance and enables efficient transaction processing in the Hyperledger Fabric network.

Question: 7

In the context of the IBM Blockchain Platform network, what is the process to increase the CPU for a deployed peer?

A. The CPU allocation for the peer will increase automatically as required.
B. The CPU allocation for the peer cannot be changed once the peer has been created.
C. Change the resource allocation for the peer using the IBM Blockchain Platform web console.
D. Change the resource allocation for the peer using a Hyperledger Fabric peer command.

Answer: C

Explanation: To increase the CPU for a peer deployed in an IBM Blockchain Platform network, you need to change the resource allocation for the peer using the IBM Blockchain Platform web console. This console provides a user-friendly interface to manage and configure various aspects of the blockchain network, including the resource allocation for individual peers. By adjusting the resource allocation settings through the web console, you can allocate more CPU resources to the peer as per your requirements.

Question: 8

Which component of the IBM Blockchain Platform is responsible for managing the membership and access control within a network?

A. Ordering service
B. Certificate Authority (CA)
C. Peer node
D. Chaincode

Answer: B

Explanation: The Certificate Authority (CA) is responsible for managing the

membership and access control within a network in the IBM Blockchain Platform. The CA is a component that issues and manages digital certificates for network participants, ensuring secure authentication and authorization. It verifies the identity of users and controls their access to various network resources. By managing the membership and access control, the CA plays a crucial role in maintaining the integrity and security of the blockchain network.

Question: 9

Which programming language is commonly used to write chaincode in the IBM Blockchain Platform?

A. JavaScript
B. Python
C. Go
D. Java

Answer: C

Explanation: The programming language commonly used to write chaincode in the IBM Blockchain Platform is Go. Go, also known as Golang, is a statically typed, compiled language developed by Google. It is well-suited for writing chaincode due to its simplicity, performance, and built-in support for concurrency. Chaincode, also referred to as smart contracts, are typically written in Go to define the transactional logic and rules of the network.

Question: 10

What is the purpose of the Fabric Gateways view in the IBM Blockchain Platform VS Code extension?

A. creating a blockchain network
B. discovering a blockchain network

C. connecting to a blockchain network
D. joining an organization to a blockchain network

Answer: C

Explanation: The purpose of the Fabric Gateways view in the IBM Blockchain Platform VS Code extension is to connect to a blockchain network. This view allows users to establish connections to existing blockchain networks by providing the necessary configuration details, such as network URL, user credentials, and channel information. Once connected, users can interact with the network, submit transactions, query the ledger, and perform other network-related operations.

Question: 11

What is the purpose of the Hyperledger Fabric Certificate Authority (CA) in the IBM Blockchain Platform?

A. It establishes the connection between multiple blockchain networks.
B. It provides a distributed ledger for storing transaction data.
C. It manages the identities and issues digital certificates.
D. It ensures the security of the blockchain network.

Answer: C

Explanation: The Hyperledger Fabric Certificate Authority (CA) in the IBM Blockchain Platform is responsible for managing the identities and issuing digital certificates. The CA acts as a trusted authority within the network, verifying the identity of participants and generating cryptographic certificates that are used for secure communication and transaction signing. It ensures the authenticity and integrity of network participants and establishes a foundation of trust within the blockchain network.

Question: 12

Which cryptographic algorithm is commonly used for securing transactions in the IBM Blockchain Platform?

A. RSA
B. AES
C. SHA-256
D. HMAC

Answer: C

Explanation: The cryptographic algorithm commonly used for securing transactions in the IBM Blockchain Platform is SHA-256 (Secure Hash Algorithm 256-bit). SHA-256 is a widely used cryptographic hash function that generates a fixed-size hash value (256 bits) from input data. In the context of blockchain, SHA-256 is used to create a unique digital fingerprint, or hash, of each transaction. This hash is then used for verification, integrity checking, and linking transactions together in the blockchain's Merkle tree structure.

Question: 13

What is the purpose of an endorsement policy in the context of Hyperledger Fabric?

A. To determine the fee structure for transactions on the blockchain network.
B. To ensure the availability and reliability of the blockchain network.
C. To specify the required number of peer endorsements for a transaction's validity.
D. To define the cryptographic algorithms used for securing transactions.

Answer: C

Explanation: The purpose of an endorsement policy in the context of Hyperledger Fabric is to specify the required number of peer endorsements for a transaction's validity. Endorsement policies define the criteria that a transaction must meet to be considered valid by the network. Typically, an endorsement policy requires a certain number or percentage of participating peers to endorse a transaction before it can be committed to the blockchain. This mechanism ensures consensus among multiple peers and enhances the security and reliability of the blockchain network.

Question: 14

What is the role of a smart contract in the IBM Blockchain Platform?

A. It defines the network topology.
B. It manages the identity and access control.
C. It stores and manages the blockchain ledger.
D. It enforces the business logic and rules of the network.

Answer: D

Explanation: A smart contract in the IBM Blockchain Platform is responsible for enforcing the business logic and rules of the network. It is a self-executing contract that contains the terms and conditions agreed upon by the participating parties. The smart contract defines the actions, conditions, and outcomes that are automatically executed when certain predefined conditions are met. It enables automated and trusted execution of transactions and ensures the integrity and transparency of the network's operations.

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