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| ***M***ust-have | * Create a private IPFS network that provides secure content storage and peer to peer communication * A Hyperledger Fabric blockchain that provides content links to data stored on the IPFS network * Query and update ledger using key-based lookups * Combination of both IPFS and Hyperledger fabric * There is immutability once a transaction is validated and committed * A channel’s ledger contains a configuration block defining policies, access control lists, and other pertinent information |
| ***S***hould | * The Hyperledger fabric also provides a method data collection with access control methods * Read-only queries using a rich query language * Transactions consist of the versions of keys/values that were read in chaincode (read set) and keys/values that were written in chaincode (write set) * Protection against double-spend opertaions * Identity verifications |
| ***C***ould-have | * Method of automatically creating a private IPFS network using Ansible or other scripting methods * Read-only history queries — Query ledger history for a key, enabling data provenance scenarios * Peers validate transactions against endorsement policies and enforce the policies * Prior to appending a block, a versioning check is performed to ensure that states for assets that were read have not changed since chaincode execution time * AES Encrypting of values and be only decrypted by the peer with the key. |
| ***W***on't-have | * Backups for the IPFS /HLF for 51% attacks etc * Creation of separate channels by participants. |