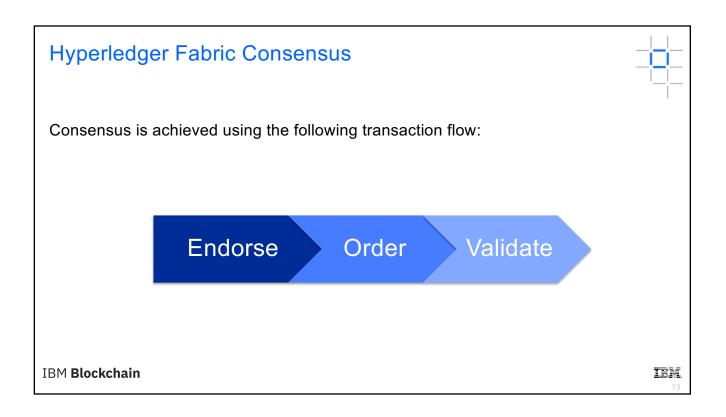
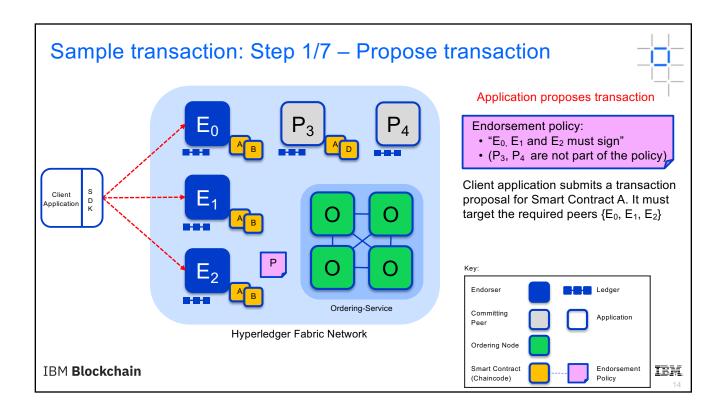
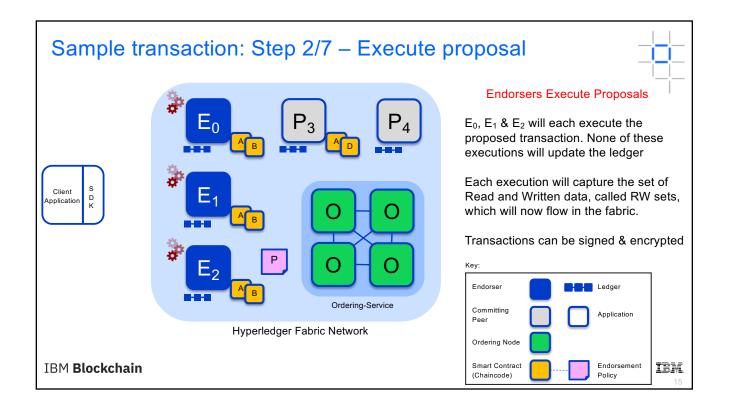
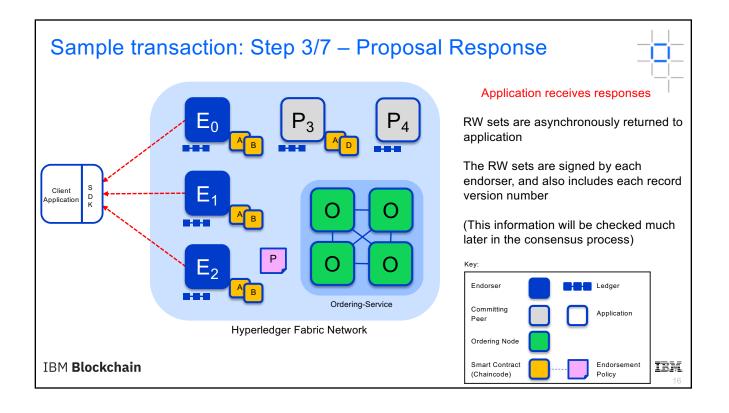


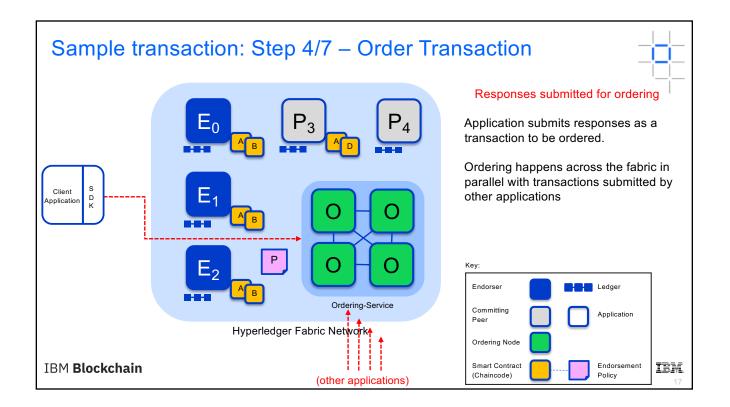
Nodes and roles					
		Peer: Maintains ledger and state. Commits transactions. May hold smart contract (chaincode).			
		Endorsing Peer: Specialized peer also endorses transactions by receiving a transaction proposal and responds by granting or denying endorsement. Must hold smart contract.			
		Ordering Node: Approves the inclusion of transaction blocks into the ledger and communicates with committing and endorsing peer nodes. Does not hold smart contract. Does not hold ledger.			
IBM Blockchain					

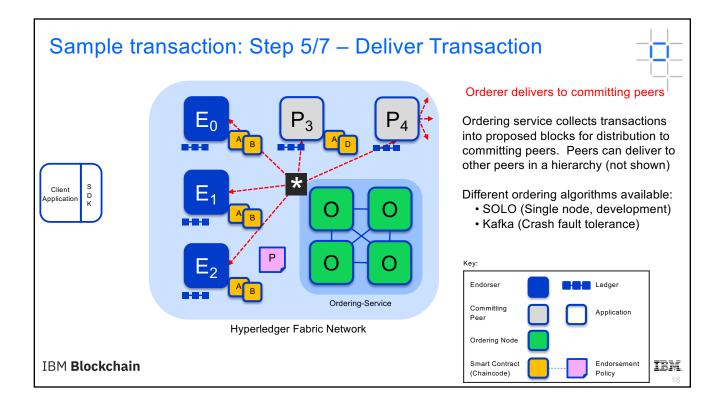


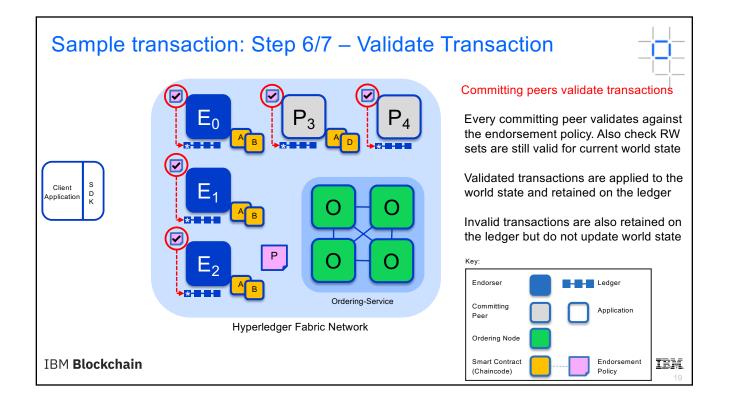


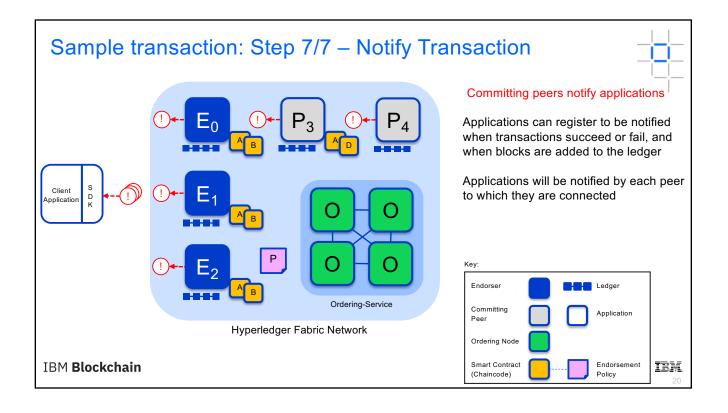


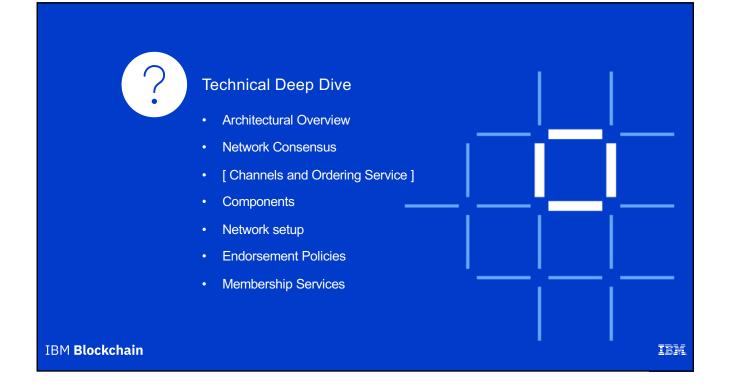


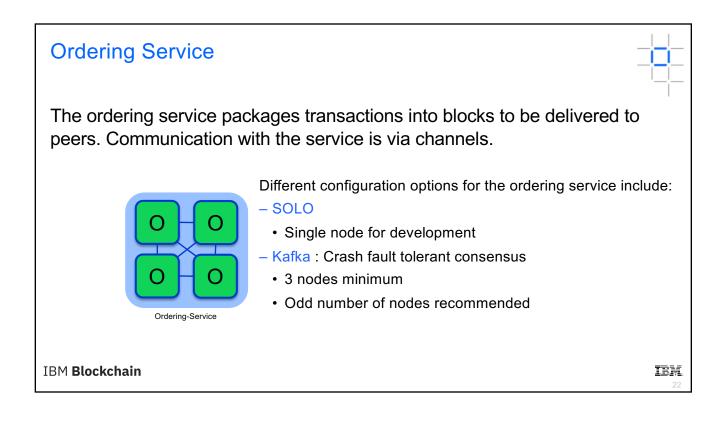


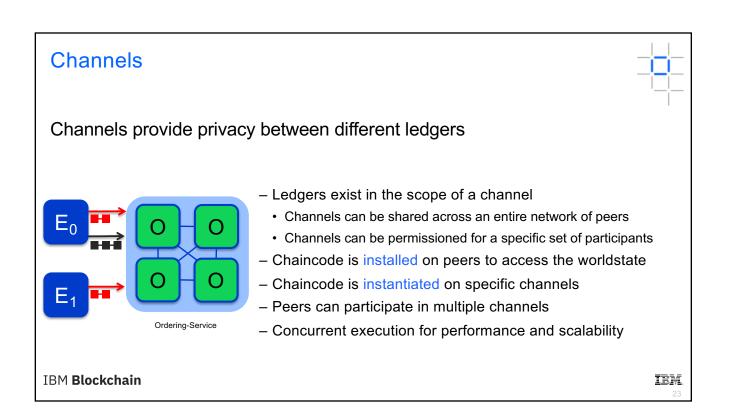


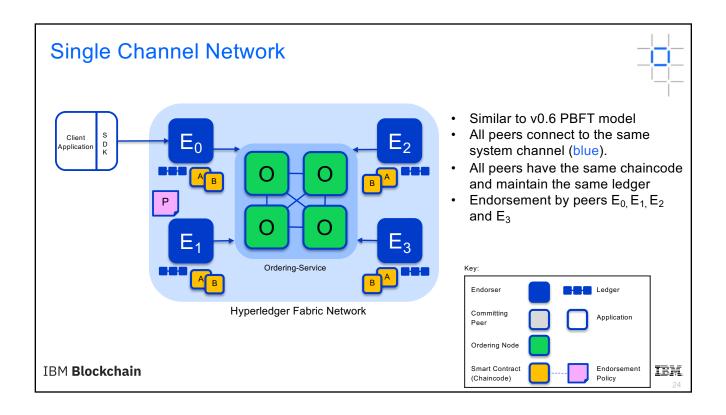


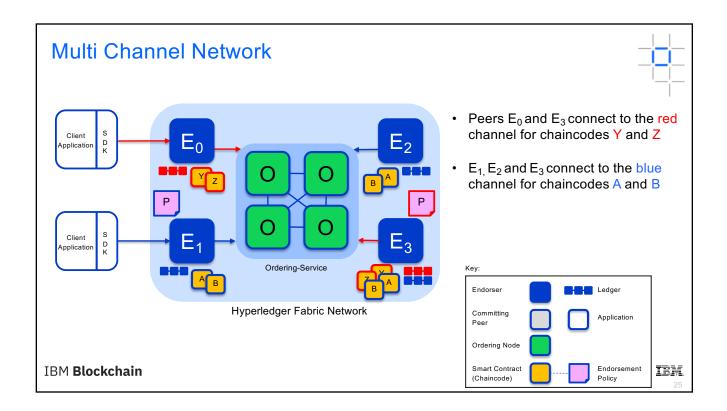


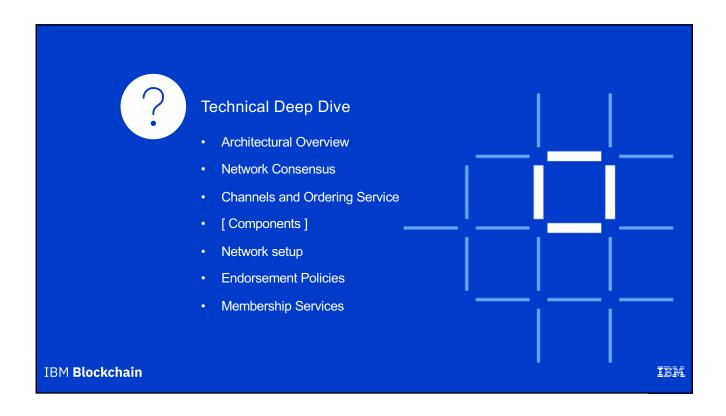


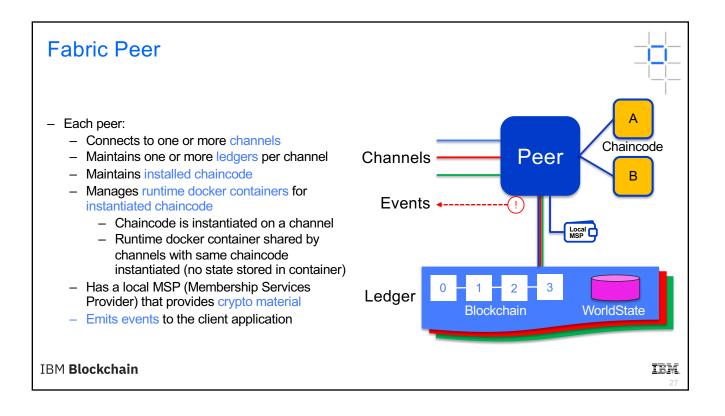


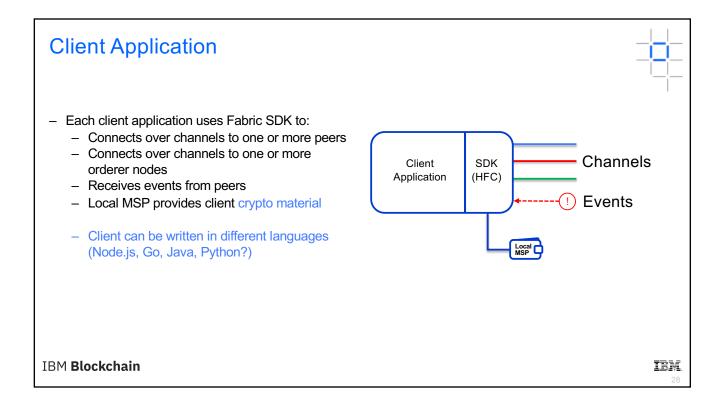


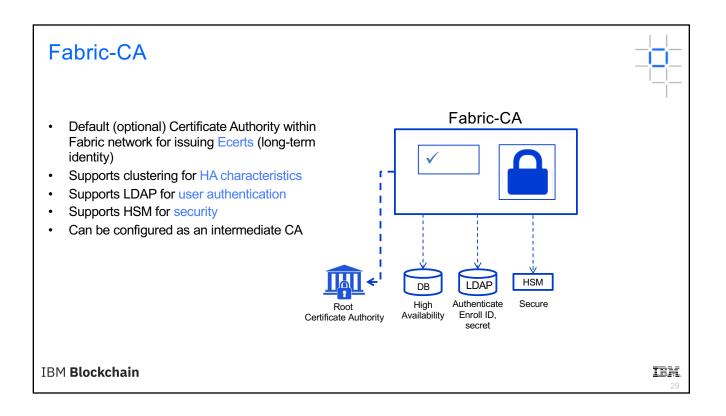


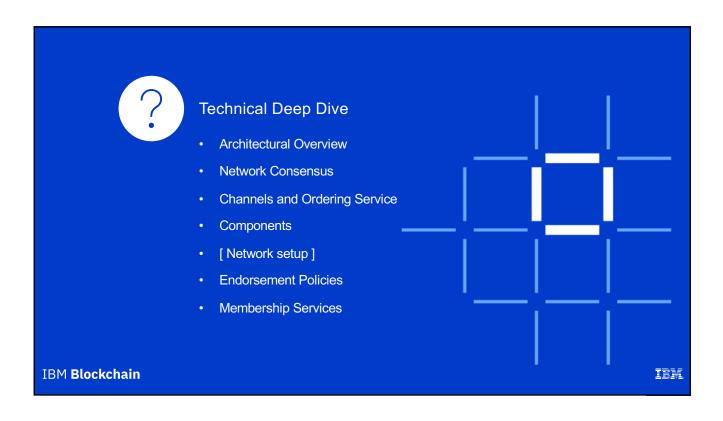


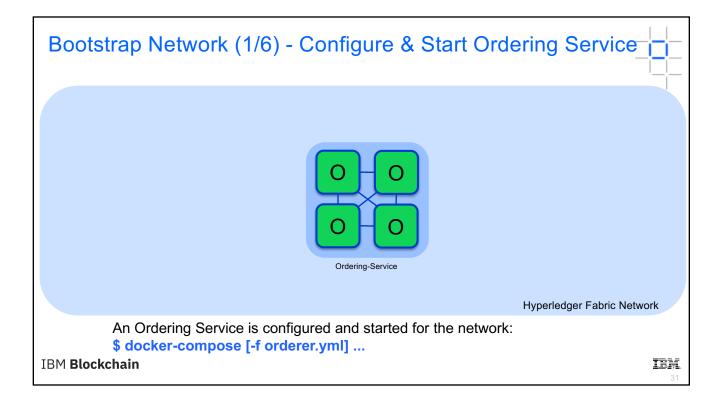


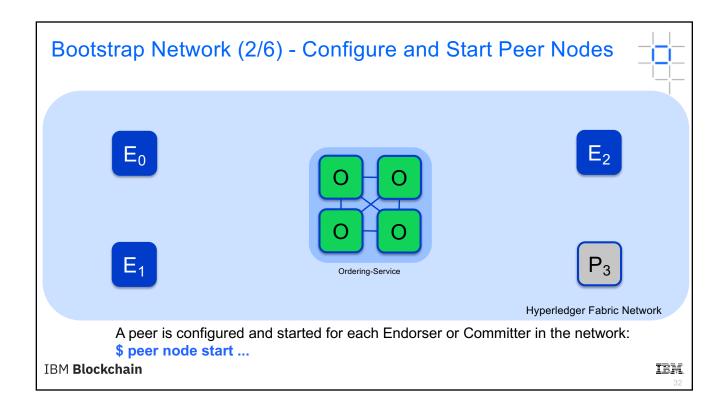


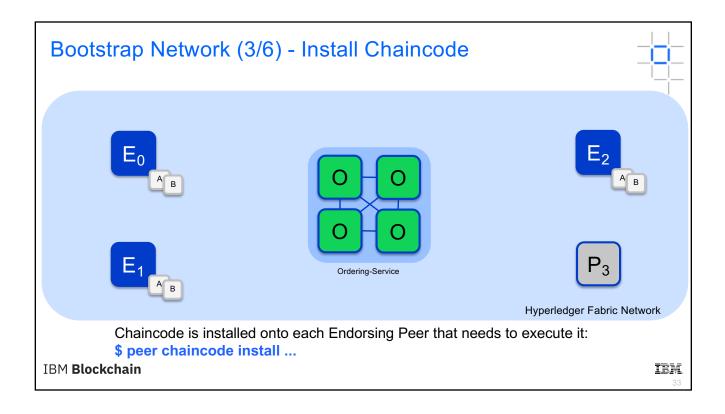


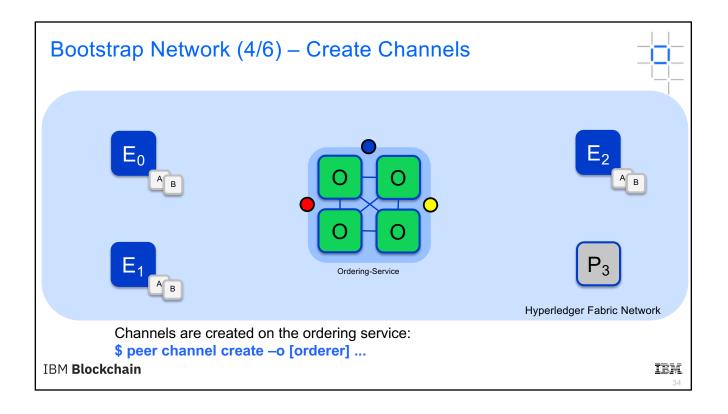


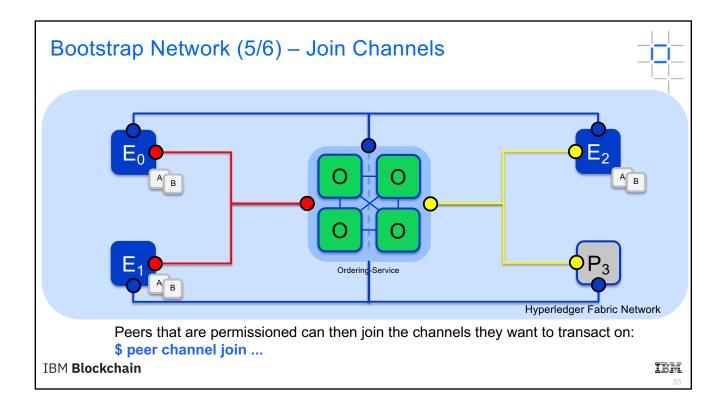


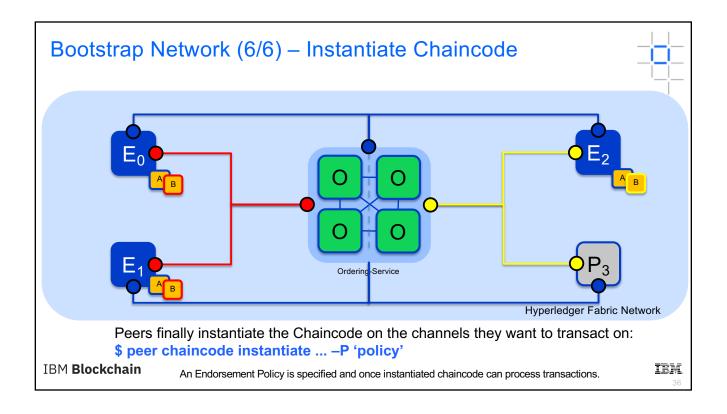


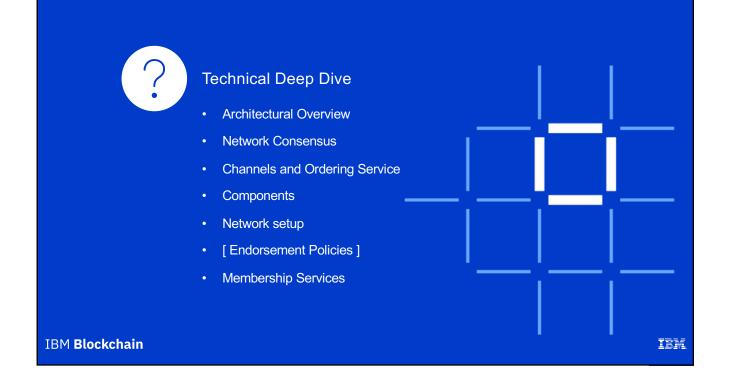


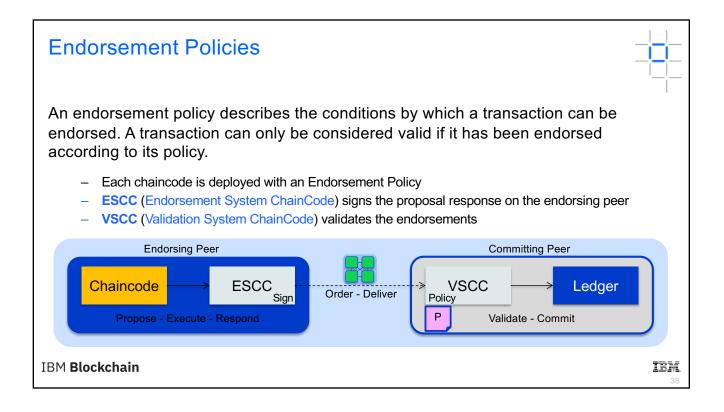


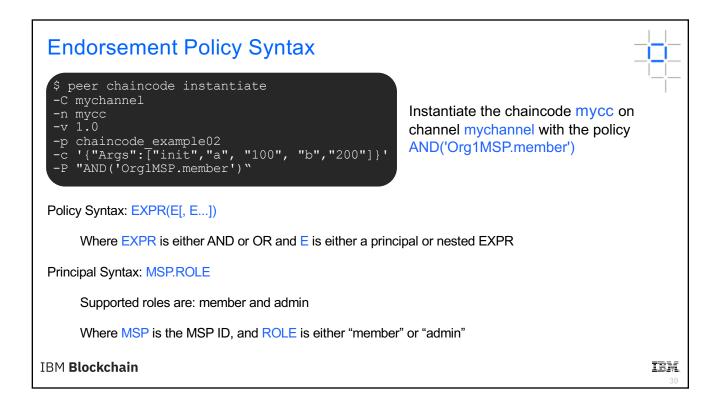


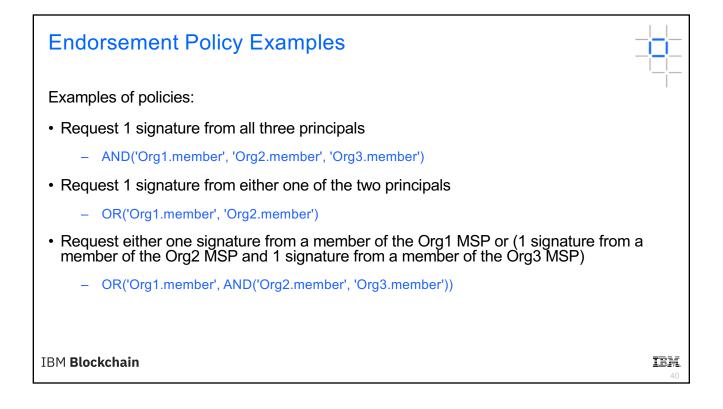


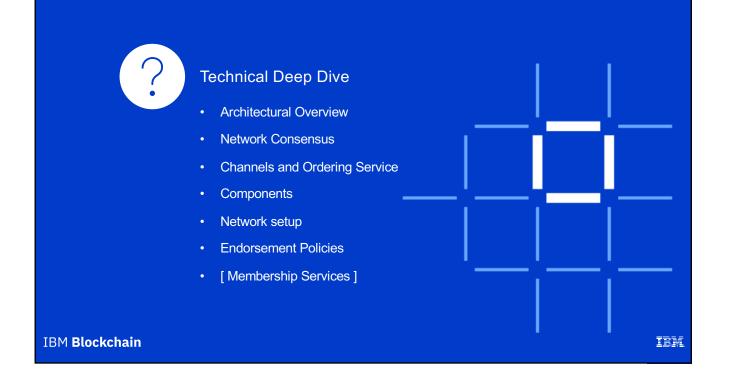


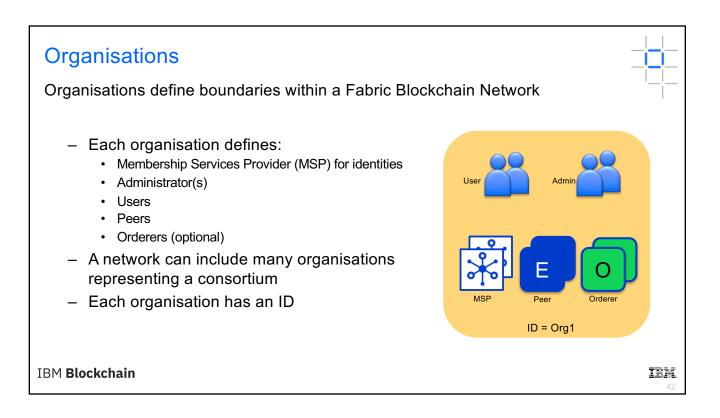


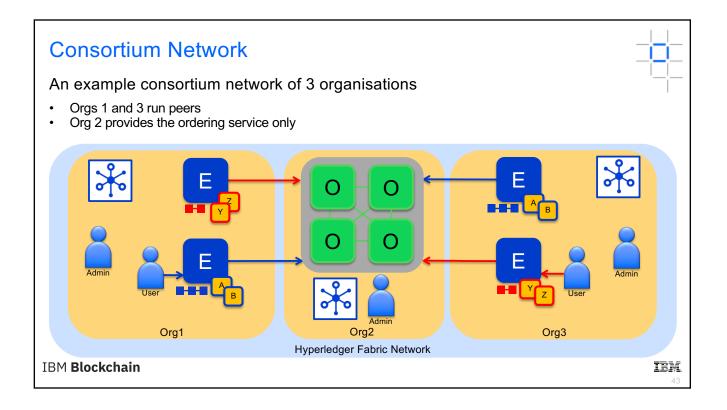


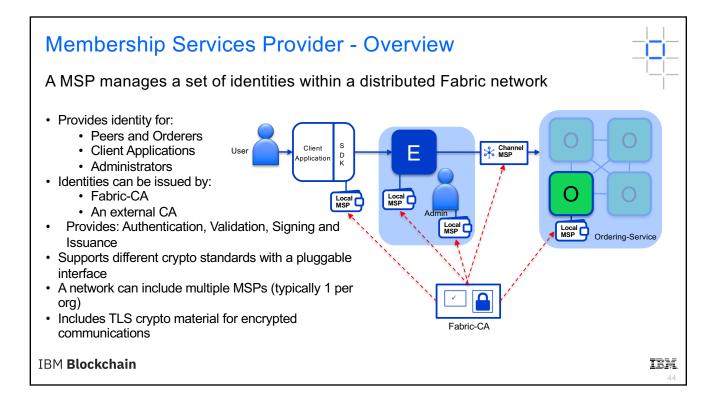


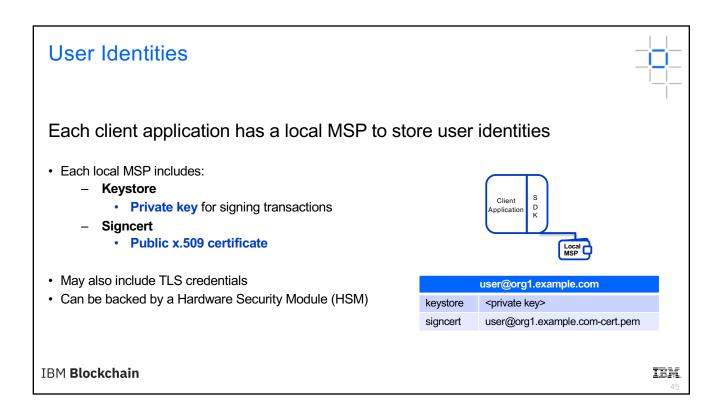


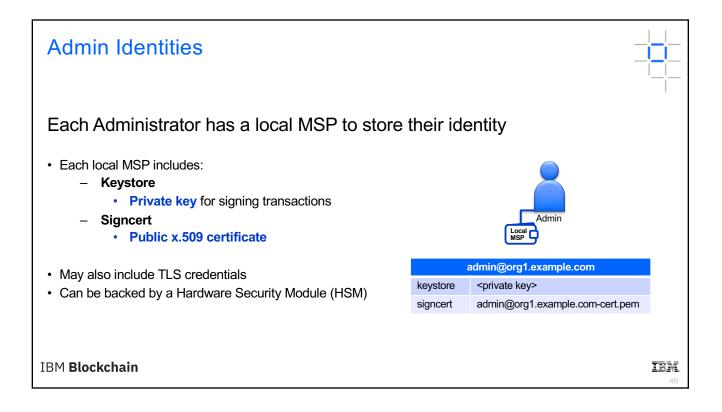


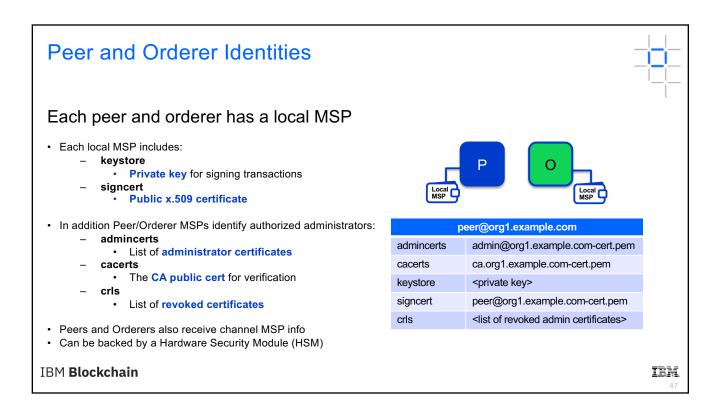


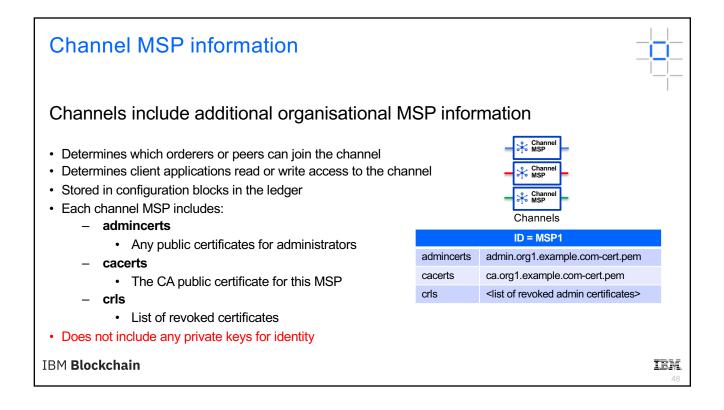


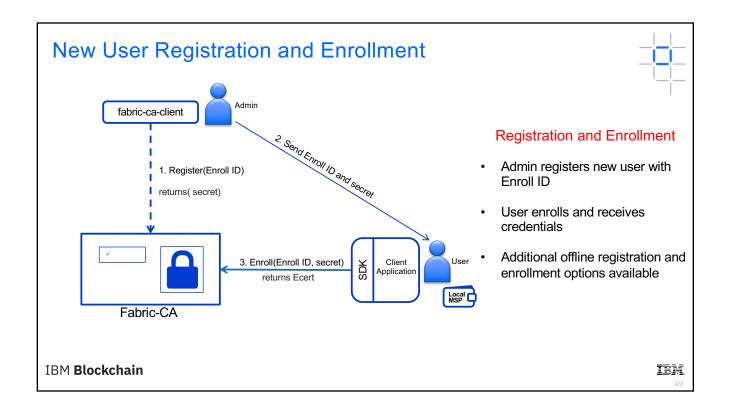


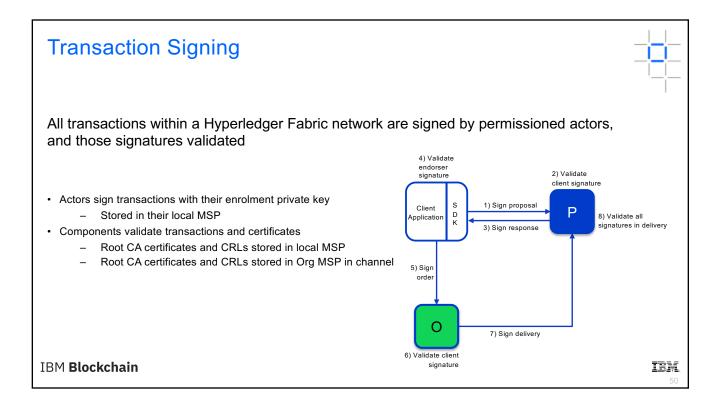


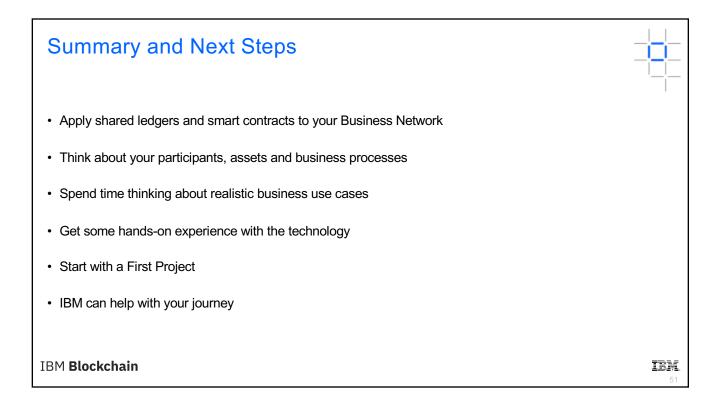














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Thank you

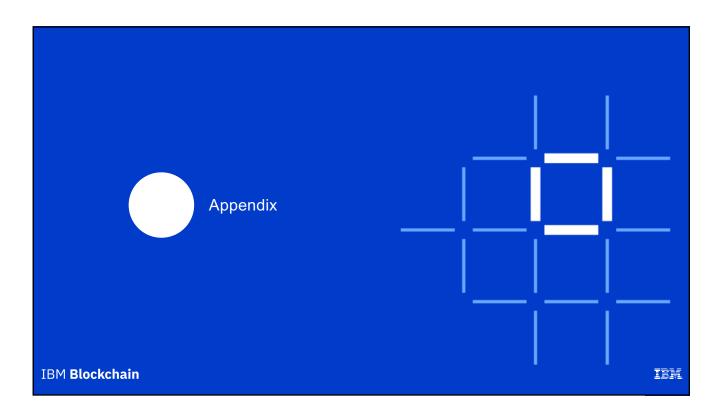
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www.ibm.com/blockchain

developer.ibm.com/blockchain

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Path	MSP ID	Attributes	Attributes	
config -> channel_group -> groups -> application -> groups	Org1MSP	mod_policy		Admins
		policies -> Admins	mod_policy	Admins
			policy -> value -> identities	Org1MSP, Admin
			Policy -> value -> rule	n_out_of
		Policies -> Readers	Mod_policy	Admins
			Policy -> value -> identities	Org1MSP
			Policy -> value -> rule	N_out_of
		Policies -> Writers	Mod_policy	Admins
			Policy -> value -> identities	Org1MSP
			Policy -> value -> rule	N_out_of

