



# Certified Hyperledger Expert

Hyperledger Fabric Endorsement Policies

# Endorsement Policies



Endorsement policies are the conditions which are to be met to endorse a transaction. Endorsement policies are referred by deploy transactions which install specific chaincode over the Blockchain.

Endorsement Policies should not be large in numbers, instead it should be a set of proven policies that guarantees security and performance.

# Transaction Evaluation



A transaction is declared valid only if it satisfies the endorsement policies and only after that it would be committed over the ledger.

Endorsement Policy may refer to:

- Keys or identities relating to the chaincode for example, a set of endorsers.
- Metadata of the chaincode.
- Elements of the endorsement and endorsement transaction proposal.
- There could be more data as per the business requirement.

# Endorsement Policy Example



Chaincode can be used to specify the endorsers set:  $E = \{Alice, Bob, Charlie, Dave, Eve\}$

Some Examples for policies:

- A valid signature from on the same tran-proposal from all members of Endorsers set.
- A valid signature from any single member of Endorsers set.
- Valid signatures on the same tran-proposal from endorsing peers according to the condition (Alice OR Bob) AND (any two of: Charlie, Dave, Eve).
- Valid signatures on the same tran-proposal by any 3 out of the 5 endorsers.
- Policies could also be relate to stake weightage to each member..



# THANK YOU!

Any questions?  
You can mail us at  
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