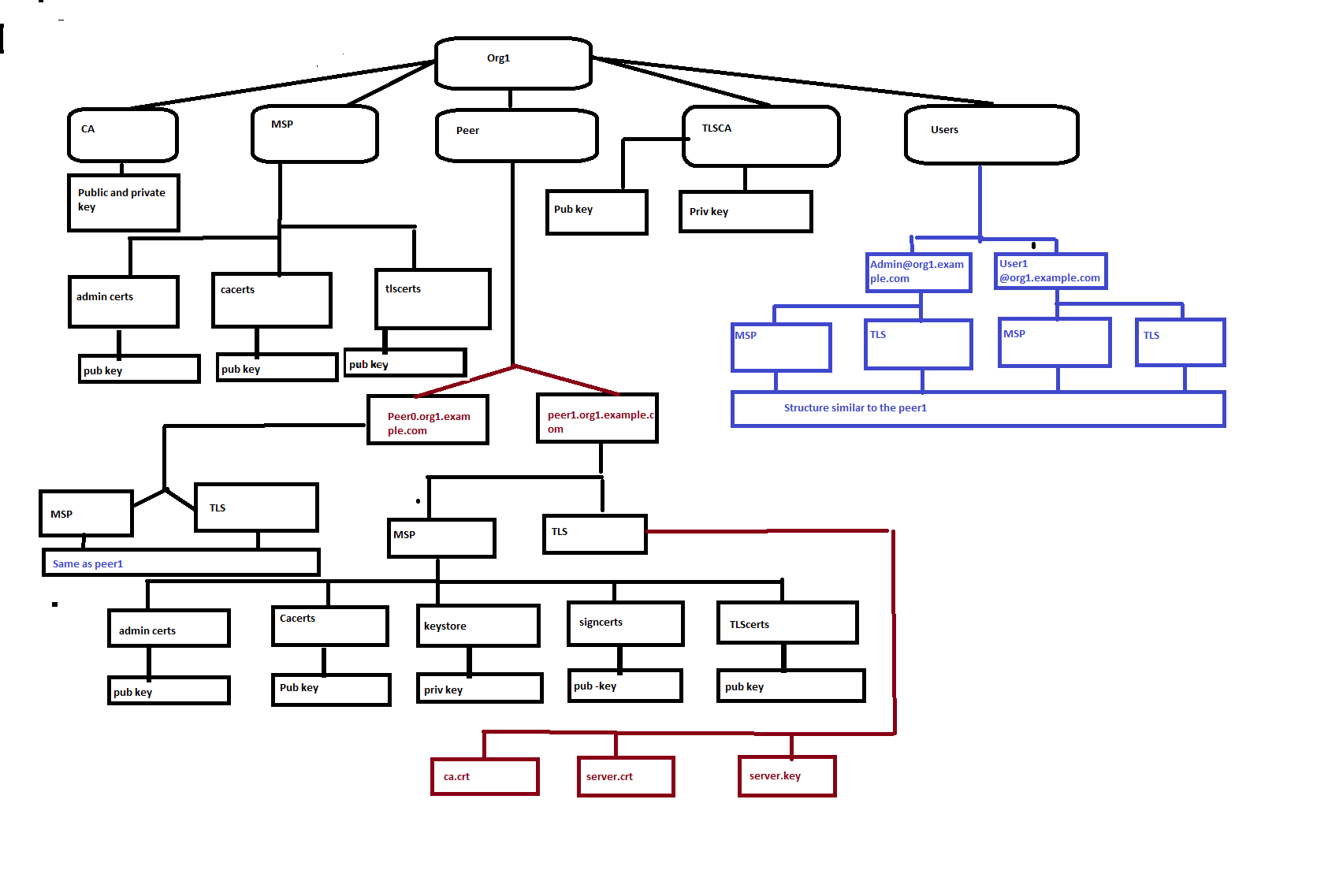
# Fabric CA

A snapshot of all the certs used on Fabric:

<https://stackoverflow.com/questions/46465298/understanding-various-certificates-in-hyperledger-fabric>

## CA Types:

<https://openblockchain.readthedocs.io/en/latest/Setup/ca-setup/>

1. Enrollment CA – allows new users to register with the network and enables registered users to request an enrollment certificate (ecert) pair.
2. Transaction CA - issues Transaction certs. These certificates are to be used for deploying Chaincode and for invoking Chaincode transactions on the blockchain.
3. TLS CA - users will need *TLS certificates* to secure their communication channels.

In development environments, most of the given samples use the cryptogen and configtxgen tools to generate the crypto materials. In production environments, it is recommended to use the Fabric CA Server and Client to enroll and register new users.

The following link provides some samples to demo how to use Fabric and Fabric CA together end-to-end with the byfn sample network:

<https://jira.hyperledger.org/browse/FABC-96> 🡪 <https://gerrit.hyperledger.org/r/#/c/13213/>

## CA Setup – Server:

<https://medium.com/mlg-blockchain-consulting/fabric-ca-setup-server-8a1b14910179>

This link gives a good overview of setting up the Fabric CA Server. The major steps are:

1. Clone the CA-Server repo.
2. Set up system paths and environment variables.
3. Init the server with a default uname/pwd:

fabric-ca-server init -b “admin:adminpw”

1. Start the server with the same uname/pwd:

fabric-ca-server start -b “admin:adminpw”