Graphical user interface, text

Description automatically generated

**Lesson 1 Demo 5**

**Install the Chaincode**

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| **Objective:** To install the packaged chaincode on two different organizations  **Tools required:** Ubuntu  **Prerequisites:** Lesson 1 Demo 4 |

Steps to be followed:

1. Installing chaincode on Org1
2. Installing chaincode on Org2

**Step 1: Installing chaincode on Org1**

1. Run the following command to install the chaincode on Org1:

***peer lifecycle chaincode install CrossBorderPayment.tar.gz --peerAddresses localhost:7051 --tlsRootCertFiles $CORE\_PEER\_TLS\_ROOTCERT\_FILE***

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| **Note:** In case of **Permission denied** error, use the following command: ***sudo chmod -R 777 .***  If the installation is successful, the **Chaincode code package identifier** is shown in the output. |

**Step 2: Installing chaincode on Org2**

1. Navigate to **fabric-samples/test-network** folder and create **lifecycle\_setup\_org2.sh** life using the following command:

***nano lifecycle\_setup\_org2.sh***

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| **Note:** Open another **Terminal** window to install **Org2**. |

1. Write the following code in the lifecycle\_setup.sh file and save it:

***#!/bin/sh***

***export PATH=${PWD}/../bin:${PWD}:$PATH***

***export FABRIC\_CFG\_PATH=$PWD/../config/***

***# Environment variables for Org2***

***export CORE\_PEER\_TLS\_ENABLED=true***

***export CORE\_PEER\_LOCALMSPID="Org2MSP"***

***export CORE\_PEER\_TLS\_ROOTCERT\_FILE=${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt***

***export CORE\_PEER\_MSPCONFIGPATH=${PWD}/organizations/peerOrganizations/org2.example.com/users/Admin@org2.example.com/msp***

***export CORE\_PEER\_ADDRESS=localhost:9051***

***export ORDERER\_CA=${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem***

1. To set up all the required environment variables, go to the **fabric-samples/test-network** and run the **lifecycle\_setup.sh** file using the command:

***source ./lifecycle\_setup\_org2.sh***

1. Use the given command to install chaincode:

***peer lifecycle chaincode install CrossBorderPayment.tar.gz --peerAddresses localhost:9051 --tlsRootCertFiles $CORE\_PEER\_TLS\_ROOTCERT\_FILE***

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| **Note:** In case of **Permission denied** error, use the following command: ***sudo chmod -R 777 .***  If the installation is successful, the **Chaincode code package identifier** is shown in the output. |