

EVERYBLOCKCHAIN TEST SUITE - MANUAL



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Revisions

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0.1	Vignesh A.	First Draft version	

Review & Approval

Requirements Document Approval History

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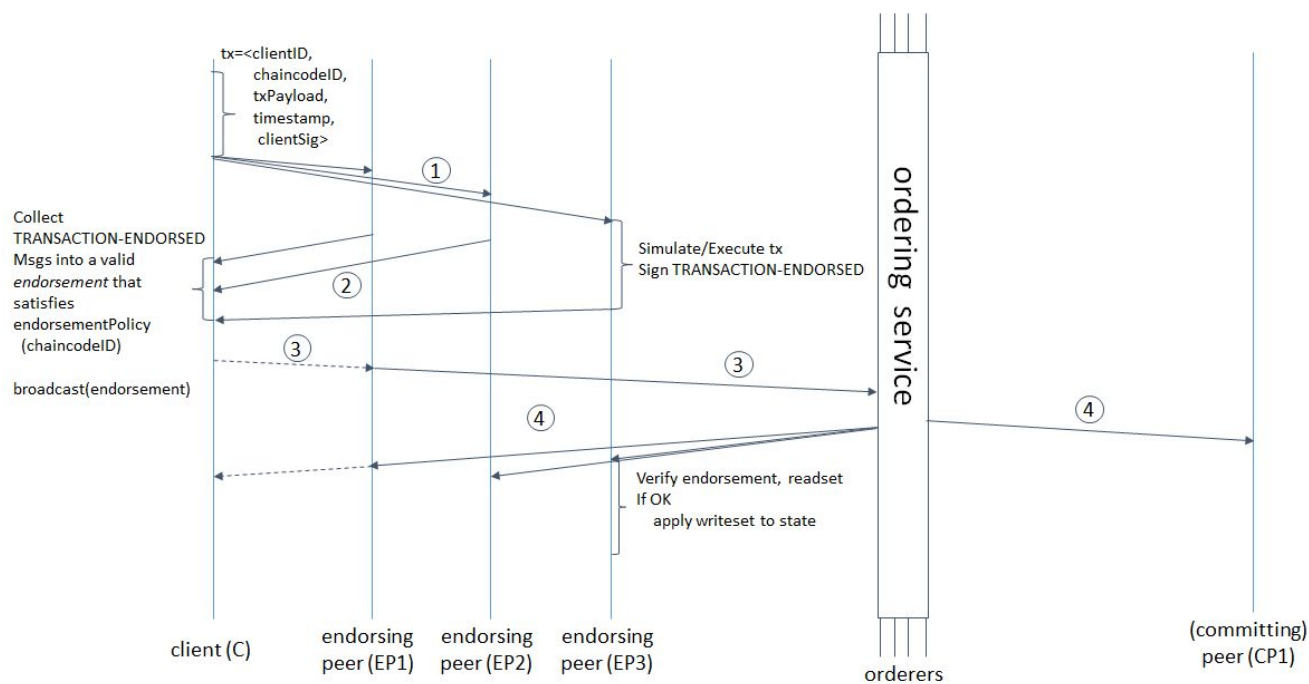
1.

1. INTRODUCTION

Blockchain, the talk of the industry, is foreseen by many of the industry experts that it will do for transaction what the internet did for information. However similar to the internet, the promises made by blockchain can only be possible with assisting technologies such as Artificial Intelligence (AI) and the Internet of Things (IoT), all of which is together forming the next generation of the internet for a variety of vertical industry use cases. The blockchain will provide the technology to securely perform and store transactions in a distributed network while others offer their benefits

1. Installation testing to verify successful installation of system software, blockchain network, and business network and applications
2. Blockchain network Infrastructure testing to validate the functionality and performance of the blockchain network and its different components
3. Business network and application testing to characterize the functionality and of the business network and its different components

2. ARCHITECTURE



3. WHAT WE DO

“What if testers have a solution that provides lot of test cases to ready- to-go client and server side test cases?”

TestOnNeed offers precisely such a solution to our customers who are ready to test at client side and server side.

We provide a ready to use solution to the customers which help them to achieve quick results for testing the client side. This solution will help to detect problems at an early stage which will reduce the cost of the product development cycle.

We provide:

1. EveryBlockchain Test Suite : In this document we will be describing the solution in details. This test suite solution will help the users understand and validate the request and the response for the blockchain solution.

4. DESCRIPTION OF THE SOLUTION

The deliverable package contains a set of a 3 files “Everyblockchain.sh” which are to be clone run ansible solution suite and executed. During the execution the requests user to fill configuration file and inventory file .Then executing the shell file in that test cases one by one as mentioned in the Test Link test case document.

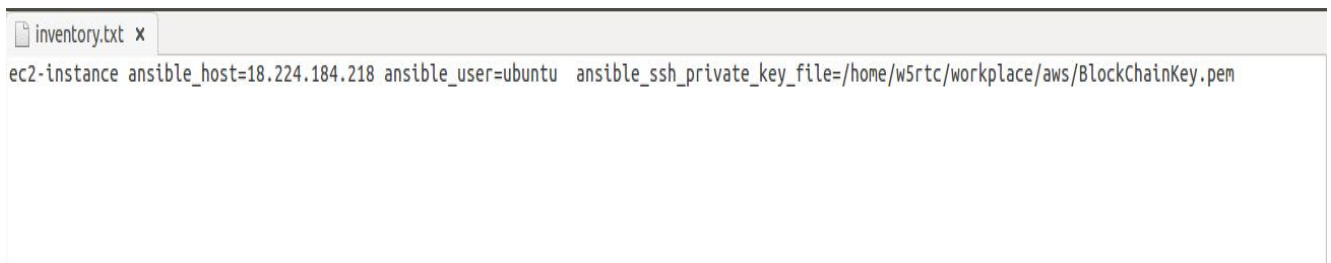
During the execution, the shell place all required codes .Then start run the ansible playbook that will that inventory details

The customer will also get a set of links of videos which they can follow and execute the test cases with ease and reach the market quickly with a quality product.

5. INSTALLATION TESTING

- a. The deliverable package will contain the set of file ready which can be used by the user with modification based on their configuration input details required to be made.

The inventory.txt file will then be required change public IP and PEM.KEY(connection key)



```
inventory.txt x
ec2-instance ansible_host=18.224.184.218 ansible_user=ubuntu ansible_ssh_private_key_file=/home/w5rtc/workplace/aws/BlockChainKey.pem
```

- b. After importing the Changing inventory.txt file then Everyblockchain.yaml file will then be required change network information and that will help to automatic run shell script .The Everyblockchain.yaml

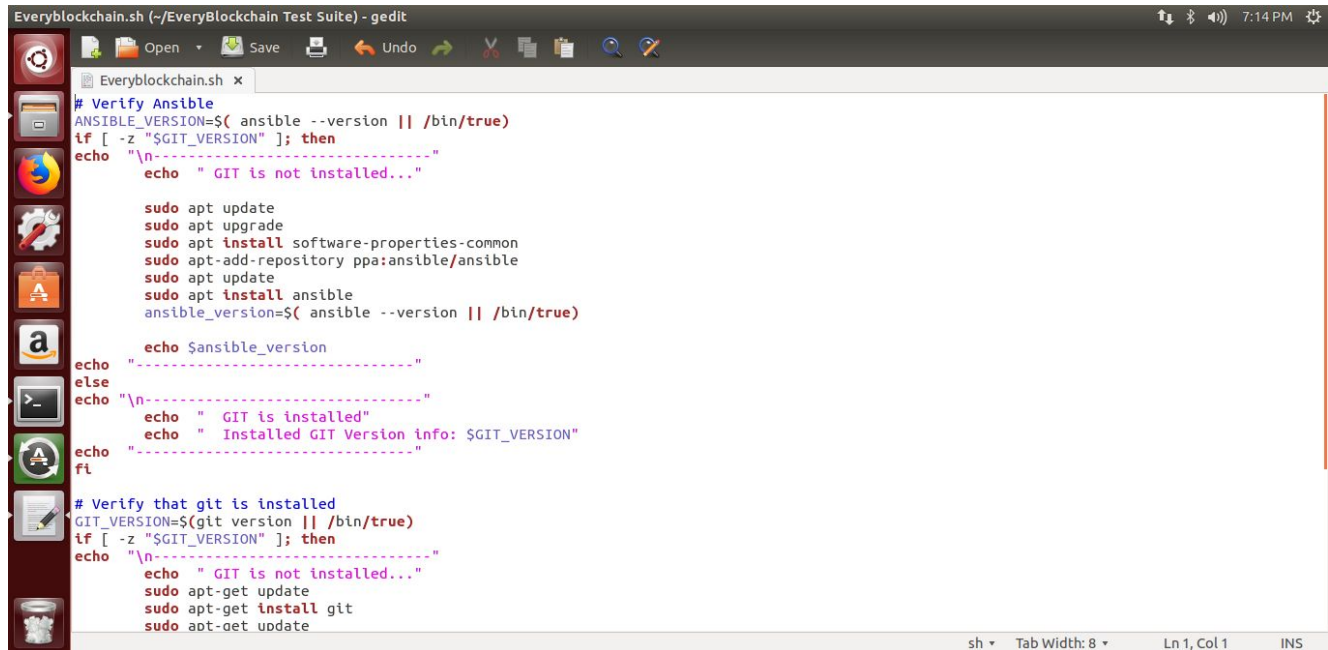
file will then be required change network information



```
Everyblockchain.yaml x
{
  "name": "SystemName",
  "version": "1.x",
  "tls": "https",
  "environment": "dev",
  "headers": {"Content-Type": "application/json"},
  "client": {
    "organization": "Org1ExampleCom"
  },
  "organizations": {
    "Org1ExampleCom": {
      "mspid": "org1.example.com",
      "peers": [
        "peer0.org1.example.com",
        "peer1.org1.example.com"
      ],
      "certificateAuthorities": [
        "ca.org1.example.com"
      ]
    },
    "Org2ExampleCom": {
      "mspid": "org2.example.com",
      "peers": [
        "peer0.org2.example.com",
        "peer1.org2.example.com"
      ],
      "certificateAuthorities": [
        "ca.org2.example.com"
      ]
    }
  }
}
```

- c. The user will have to run the Everyblockchain.sh that environment to run the test cases on. On each test case the user can provide the Environment global variables and the respective values for the application environment on the Postman application.

The below image depicts how to set up system dependency .



```
Everyblockchain.sh (-/EveryBlockchain Test Suite) - gedit
# Verify Ansible
ANSIBLE_VERSION=$( ansible --version || /bin/true)
if [ -z "$GIT_VERSION" ]; then
echo "\n-----"
echo "  GIT is not installed..."

sudo apt update
sudo apt upgrade
sudo apt install software-properties-common
sudo apt-add-repository ppa:ansible/ansible
sudo apt update
sudo apt install ansible
ansible_version=$( ansible --version || /bin/true)

echo $ansible_version
else
echo "\n-----"
echo "  GIT is installed"
echo "  Installed GIT Version info: $GIT_VERSION"
fi

# Verify that git is installed
GIT_VERSION=$(git version || /bin/true)
if [ -z "$GIT_VERSION" ]; then
echo "\n-----"
echo "  GIT is not installed..."
sudo apt-get update
sudo apt-get install git
sudo apt-get update
```

d. After running the shell file..It will start testing installation,infrastructure..Then generate output text file

Please click on the Below YouTube Link for Video: -

https://www.youtube.com/watch?v=3P_LVIdGZNc&feature=youtu.be&list=PLfDSBK5ZoW6SK0wCQn_vkZ3hLM9%20ELjeJX5

6. ABOUT US

TestOnNeed is an on-need open source test automation and DevOps solution provider which aims to better the speed, scale, coverage, and quality of software application products. We live only to help businesses seeking the winning formula to bring their products, and services to the market fast to beat the slow. We do this by helping our customers to create flawless, high quality, high-performance Block chain, Artificial Intelligence (AI), Internet of Thing (IoT), Multi-Edge (Mobile) Edge Computing (MEC), 5G, Cloud, Micro services, Augmented Reality (AR), and Virtual Reality (VR) software application products. Moreover, we make it all happen with open sources using an open source testing ecosystem.

At TestOnNeed, we don't just test products; we make products better. Being fast is all about transformation and success is all about welcoming it. To discover more, visit us at <https://testonneed.com/>

If you need additional information or have questions about our solutions, demo or purchase our solutions, please reach us at mailto: sales@testonneed.com.