



# Zilliqa DevOps

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# Agenda

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## Components

- Github, CI/CD, Docker, Kubernetes

## Tasks

- Automated Checks on Code Changes
- Public Image Delivery
- Private Image Delivery
- End-to-End Test in Devnet
- Public/Private testnet
- Mainnet

# Components

## 1. Github Repository

- a. application source code (Zilliqa/Zilliqa, Zilliqa/scilla, etc.)
- b. toolchain source code (Zilliqa/testnet)

## 2. CI/CD Pipeline Tools

- a. Travis CI, “must-have” for open-source projects
- b. Jenkins, private tasks
- c. Docker Hub Autobuild

## 3. Docker Registry

- a. Docker Hub, for public images
- b. AWS Elastic Container Registry, for private images

## 4. Kubernetes Clusters

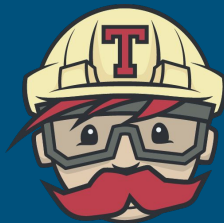
- a. Main infrastructure for Zilliqa blockchain (mainnet, testnet, devnet, etc.)



# Automated Checks on Code Changes



New pull request



Run build jobs

`.travis.yml`



Show result

success / failure

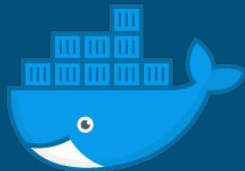
# Public Image Delivery

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New version tag

v4.6.1



Autobuild

Dockerfile / Dockerfile.cuda



Images

zilliqa:v4.6.1  
zilliqa:v4.6.1-cuda

# Private Image Delivery

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New commit on any branch

c8b2471180ebe5388177c4e2307  
de668c0188a8b

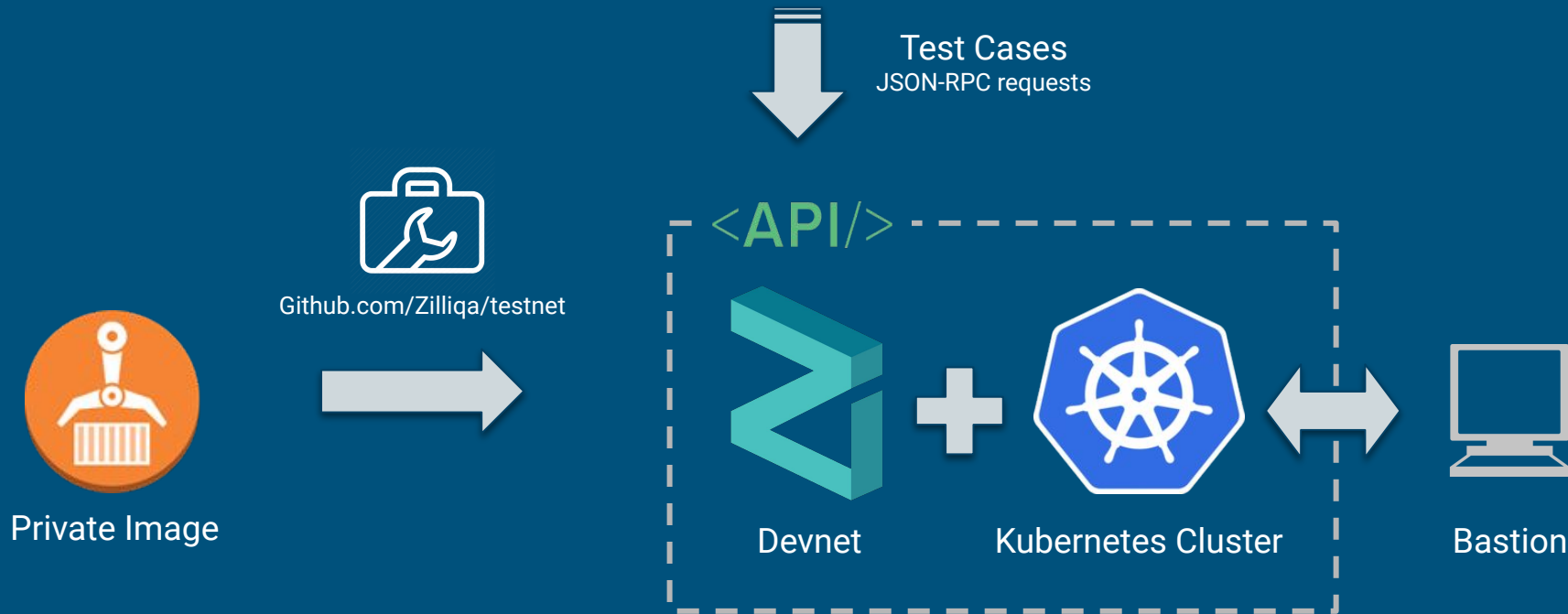
Run script

`scripts/ci_make_image.sh`

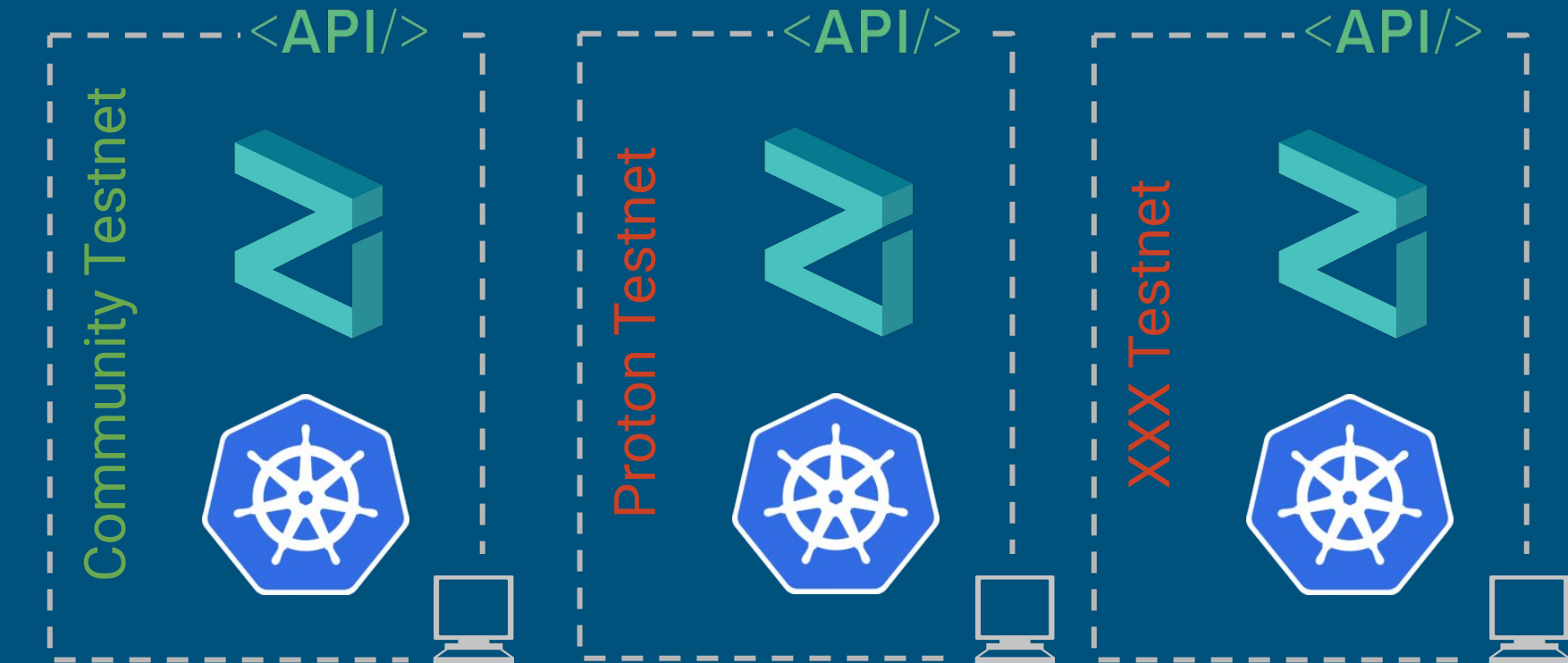
Store Images

648\*\*\*\*\*5458.dkr.ecr.us-west-2.a  
mazonaws.com/zilliqa:c8b2471

# End-to-End Test in Devnet



# Public/Private Testnet





# Mainnet



MONLET



...

<API/>

Lookups

Seed Nodes  
(exchanges)



Persistent  
Data



Bastion

Miners

