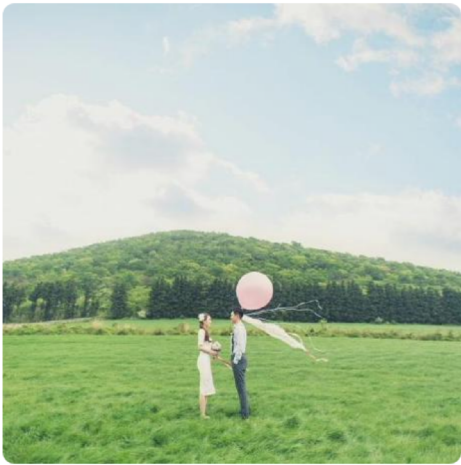


Apache Committer 가 되기까지

삼성 오픈소스 컨퍼런스

2019. 10. 17.

발표자 소개



Dominic Kim
style95

@style95

style9595@gmail.com

dominic.kim@navercorp.com

Apache OpenWhisk Committer / PMC

저는요



6년

분산 메시징 플랫폼
클라우드 플랫폼
빅데이터 분석 플랫폼



3년

Serverless Platform

오늘 드릴 말씀은요



Apache OpenWhisk

IBM Cloud Functions 시작하기

IBM Cloud Functions (Apache OpenWhisk 기반)은 수신 이벤트에 대한 응답으로 함수를 실행하고 사용하지 않을 때는 비용이 들지 않는 FaaS(Function-as-a-Service) 플랫폼입니다. 자세히 보기

IBM Cloud에 로그인

가입



IBM이 오픈소스화

Platform

Primary source code repositories including platform code, run books, tests and more.

[openwhisk](#)

[openwhisk-cli](#)

[openwhisk-apigateway](#)

[openwhisk-catalog](#)

Runtimes

OpenWhisk supports several languages via Docker runtime containers.

[openwhisk-runtime-nodejs](#)

[openwhisk-runtime-docker](#)

[openwhisk-runtime-python](#)

[openwhisk-runtime-go](#)

[openwhisk-runtime-swift](#)

[openwhisk-runtime-php](#)

[openwhisk-runtime-java](#)

[openwhisk-runtime-ruby](#)

Deployments

OpenWhisk can be deployed and configured on variety of platforms.

[openwhisk-deploy-kube](#)

[openwhisk-devtools/docker-compose](#)

[openwhisk-deploy-mesos](#)

[openwhisk/ansible](#)

[openwhisk/vagrant-setup](#)

Tooling

OpenWhisk provides variety of tools around deployment and development.

[openwhisk-wskdeploy](#)

[openwhisk-devtools](#)

[openwhisk-debugger](#)

[openwhisk-playground](#)

[openwhisk-vscode](#)

[openwhisk-xcode](#)

Packages

Several common service integrations are made available as packages. By default they are registered in the OpenWhisk catalog, under the `/whisk.system/` namespace, and include:

[openwhisk-package-alarms](#)

[openwhisk-package-cloudant](#)

[openwhisk-package-kafka](#)

[openwhisk-package-deploy](#)

[openwhisk-package-pushnotifications](#)

[openwhisk-package-rss](#)

[openwhisk-package-jira](#)

[openwhisk-package-template](#)

Clients and SDK

Here are the clients to access to OpenWhisk API:

[openwhisk-client-go](#)

[openwhisk-client-js](#)

Samples

Few example applications to demonstrate OpenWhisk features and functionalities:

[openwhisk-sample-slackbot](#)

[openwhisk-slackinvite](#)

[openwhisk-GitHubSlackBot](#)

[openwhisk-sample-matos](#)

[openwhisk-tutorial](#)

[openwhisk-workshop](#)

Others

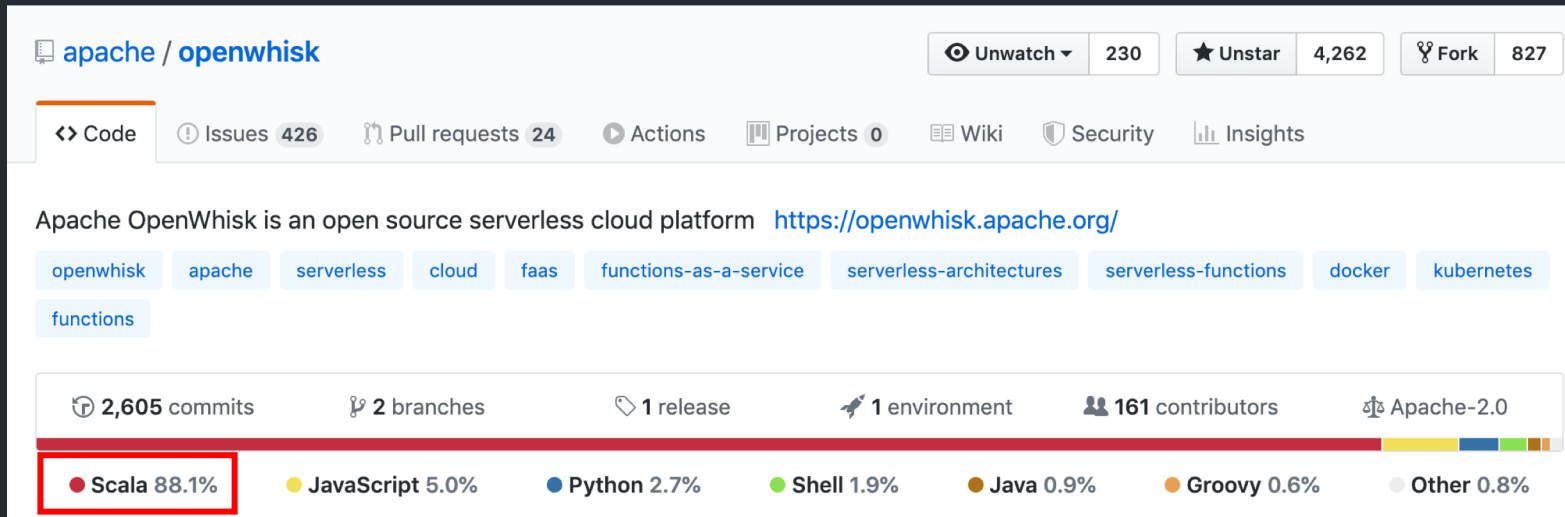
Few other misc. but crucial repositories.

[openwhisk-release](#)

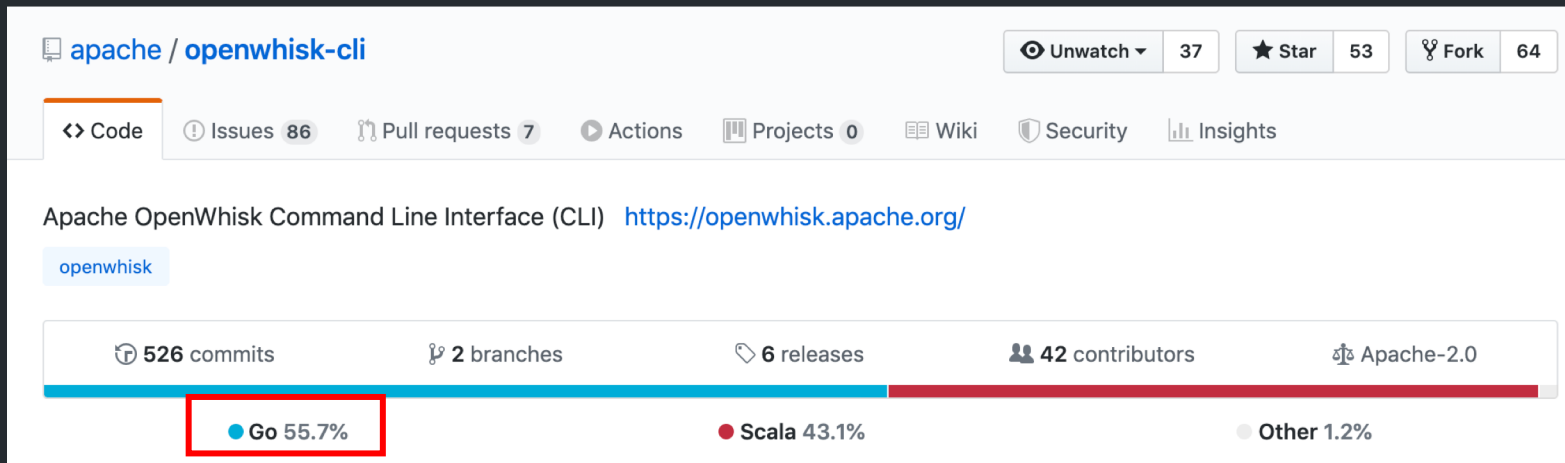
[openwhisk-website](#)

[openwhisk-external-resources](#)

총 52개 Repo



Core: Scala



CLI: Go

openwhisk-runtime Type: All Language: All

11 results for repositories matching **openwhisk-runtime** Clear filter

openwhisk-runtime-nodejs
Apache OpenWhisk Runtime NodeJS supports Apache OpenWhisk functions written in JavaScript for NodeJS

nodejs javascript docker cloud node serverless functions

JavaScript Apache-2.0 40 27 9 (1 issue needs help) 4 Updated 15 days ago

openwhisk-runtime-java
Apache OpenWhisk Runtime Java supports Apache OpenWhisk functions written in Java and other JVM-hosted languages

java docker cloud serverless jvm functions apache

Java Apache-2.0 32 19 22 (1 issue needs help) 4 Updated 10 hours ago

openwhisk-runtime-python
Apache OpenWhisk Runtime Python supports Apache OpenWhisk functions written in Python

python docker cloud serverless functions apache faas

Jupyter Notebook Apache-2.0 31 16 5 0 Updated 17 hours ago

openwhisk-runtime-docker
Apache OpenWhisk SDK for building Docker "blackbox" runtimes.
<https://openwhisk.apache.org/>

openwhisk

Scala Apache-2.0 25 12 2 0 Updated 17 hours ago

openwhisk-runtime-php
Apache OpenWhisk Runtime PHP supports Apache OpenWhisk functions written in PHP

11개 런타임

- Node.js
- Java
- Python
- Php
- Go
- Swift
- Ruby
- Rust
- Dotnet
- Ballerina

apache / **openwhisk-deploy-kube** Unwatch 38 Star 174 Fork 126

Code Issues 26 Pull requests 3 Actions Projects 0 Wiki Security Insights

The Apache OpenWhisk Kubernetes Deployment repository supports deploying the Apache OpenWhisk system on Kubernetes and OpenShift clusters. <https://openwhisk.apache.org/>

openwhisk apache serverless faas functions-as-a-service cloud serverless-architectures serverless-functions docker kubernetes functions openshift

apache / **openwhisk-devtools** Unwatch 43 Star 103 Fork 96

Code Issues 27 Pull requests 3 Actions Projects 0 Wiki Security Insights

Branch: master openwhisk-devtools / docker-compose / Create new file Upload files Find file History

apache / **openwhisk-deploy-mesos** Unwatch 32 Star 7 Fork 4

Code Pull requests 1 Actions Security Insights

Apache OpenWhisk deployment scripts and configuration files for running under Apache Mesos. <https://openwhisk.apache.org/>

openwhisk

Ansible
Kubernetes
Docker-compose
Mesos
Knative

Pulse

Contributors

Community

Traffic

Commits

Code frequency

Dependency graph

Network

Forks

September 18, 2019 – September 25, 2019

Period: 1 week ▾

Overview

15 Active Pull Requests

11

Merged Pull Requests

4

Proposed Pull Requests

9 Active Issues

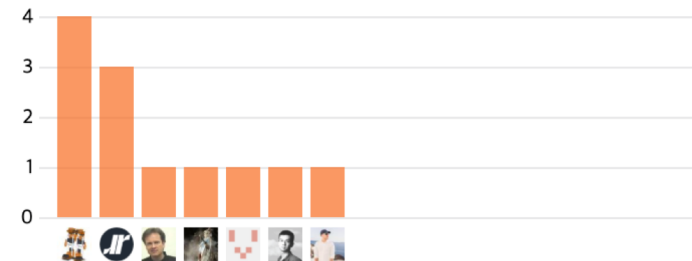
3

Closed Issues

6

New Issues

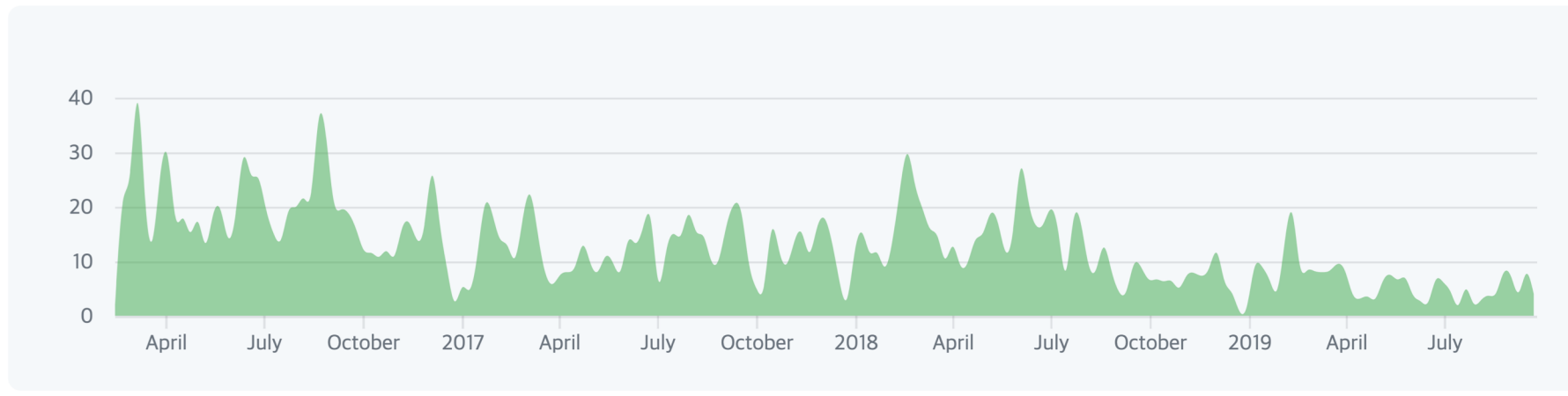
Excluding merges, **7 authors** have pushed **11 commits** to master and **11 commits** to all branches. On master, **90 files** have changed and there have been **5,631 additions** and **600 deletions**.



Feb 14, 2016 – Sep 25, 2019

Contributions: Commits ▾

Contributions to master, excluding merge commits

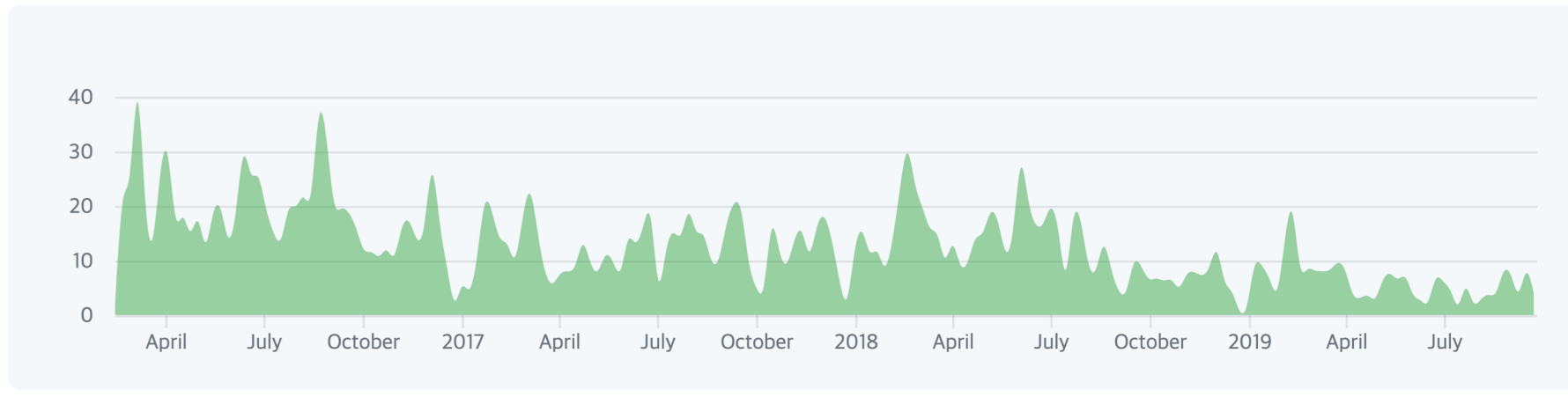


2016. 11. 23.

Feb 14, 2016 – Sep 25, 2019

Contributions: Commits ▾

Contributions to master, excluding merge commits



👁 Unwatch ▾

230

★ Unstar

4,262

🍴 Fork

827

26위

229 contributors

Contributor

오픈소스 활동에 참여하는 모든 사람

Committer

코드를 리뷰하고 머지할 수 있는 권한을 가진 사람

PMC

(Project
Management
Committee)

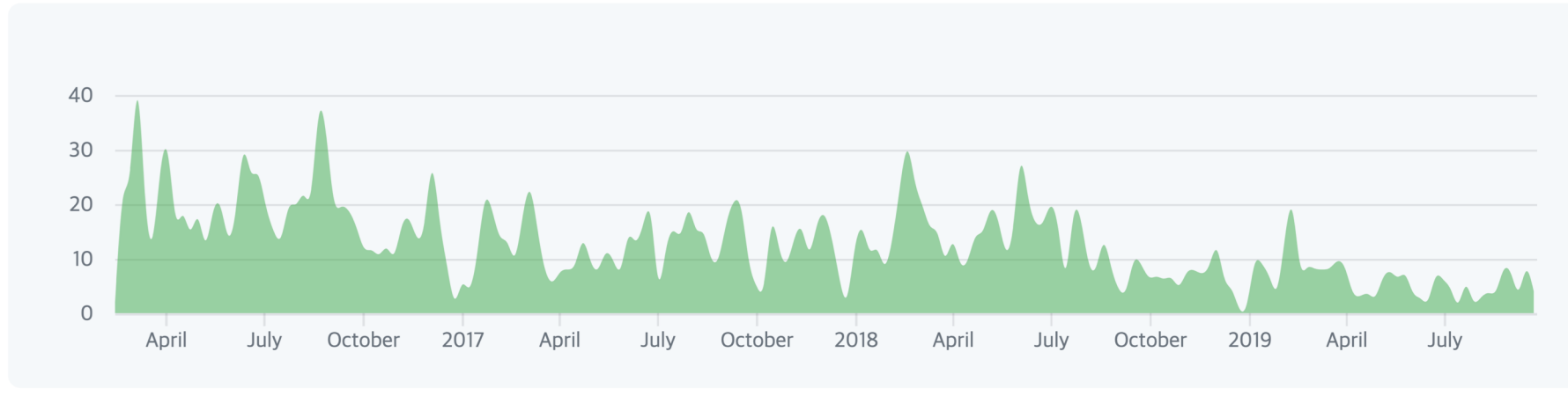
프로젝트와 관련된 모든 사항을 결정

Committer를 뽑을 수 있는 권한을 가진 사람

Feb 14, 2016 – Sep 25, 2019

Contributions: **Commits** ▾
























































Contributions to master, excluding merge commits



Unwatch ▾	230	Unstar	4,262	Fork	827
-----------	-----	--------	-------	------	-----

26위

229 contributors
21 committers
17 PMC members

 <p>clair</p> <p>Clair Red Hat ★ 5,712 MCap: \$125.51B</p>	 <p>CLOUD NATIVE Landscape</p> <p>Cloud Native Landscape Cloud Native Computing Foundation (CNCF) ★ 5,639</p>	 <p>weave net</p> <p>Weave Net Weaveworks ★ 5,638 Funding: \$20M</p>	 <p>puppet</p> <p>Puppet Puppet ★ 5,457 Funding: \$149.5M</p>	 <p>cassandra</p> <p>Cassandra Apache Software Foundation ★ 5,431</p>	 <p>SCYLLA</p> <p>Scylla ScyllaDB ★ 5,365 Funding: \$60M</p>	 <p>Nomad</p> <p>Nomad HashiCorp ★ 5,274 Funding: \$174.18M</p>	 <p>go</p> <p>GoCD Thoughtworks ★ 5,169 Funding: \$28M</p>	 <p>Kubeless</p> <p>Kubeless Kubeless ★ 5,061</p>	 <p>graylog</p> <p>Graylog Graylog ★ 4,996 Funding: \$9.4M</p>	 <p>docker REGISTRY</p> <p>Docker Registry Docker ★ 4,889 Funding: \$272.86M</p>
 <p>Tyk</p> <p>Tyk Tyk ★ 4,833 Funding: \$5.03M</p>	 <p>CoreDNS</p> <p>CoreDNS Cloud Native Computing Foundation (CNCF) ★ 4,787</p>	 <p>graphite</p> <p>Graphite Graphite ★ 4,677</p>	 <p>containerd</p> <p>containerd Cloud Native Computing Foundation (CNCF) ★ 4,637</p>	 <p>fission</p> <p>Fission Platform9 ★ 4,623 Funding: \$61.5M</p>	 <p>flannel</p> <p>Flannel Red Hat ★ 4,595 MCap: \$125.51B</p>	 <p>LINKERD</p> <p>Linkerd Cloud Native Computing Foundation (CNCF) ★ 4,536</p>	 <p>cilium</p> <p>Cilium Isovalent ★ 4,479</p>	 <p>KEYCLOAK</p> <p>Keycloak Red Hat ★ 4,464 MCap: \$125.51B</p>	 <p>Kaniko</p> <p>kaniko Google ★ 4,431 MCap: \$845.31B</p>	 <p>MySQL</p> <p>MySQL Oracle ★ 4,346 MCap: \$177.97B</p>
 <p>ALLUXIO</p> <p>Alluxio Alluxio ★ 4,329 Funding: \$16M</p>	 <p>Thanos</p> <p>Thanos Cloud Native Computing Foundation (CNCF) ★ 4,324</p>	 <p>Concourse</p> <p>Concourse Pivotal ★ 4,312 MCap: \$4.09B</p>	 <p>Apache MESOS</p> <p>Apache Mesos Apache Software Foundation ★ 4,290</p>	 <p>APACHE OpenWhisk</p> <p>Apache OpenWhisk Apache Software Foundation ★ 4,262</p>	 <p>fn</p> <p>Fn Oracle ★ 4,228 MCap: \$177.97B</p>	 <p>CERT MANAGER</p> <p>cert-manager Jetstack ★ 4,213</p>	 <p>Dragonfly</p> <p>Dragonfly Cloud Native Computing Foundation (CNCF) ★ 4,190</p>	 <p>PULSAR</p> <p>Pulsar Apache Software Foundation ★ 4,160</p>	 <p>Pouch</p> <p>Pouch Alibaba Cloud ★ 4,033 MCap: \$446.64B</p>	 <p>OrientDB</p> <p>OrientDB SAP ★ 3,976 MCap: \$146.44B</p>
 <p>Pachyderm</p> <p>Pachyderm Pachyderm ★ 3,951 Funding: \$12.12M</p>	 <p>OPENTSDDB</p> <p>OpenTSDB OpenTSDB ★ 3,863</p>	 <p>argo</p> <p>Argo Intuit ★ 3,765 MCap: \$68.67B</p>	 <p>PipelineAI</p> <p>PipelineAI PipelineAI ★ 3,757 Funding: \$1.2M</p>	 <p>weave scope</p> <p>Weave Scope Weaveworks ★ 3,691 Funding: \$20M</p>	 <p>pulumi</p> <p>Pulumi Pulumi ★ 3,507 Funding: \$20M</p>	 <p>TEKTON</p> <p>Tekton Pipelines Continuous Delivery Foundation (CDF) ★ 3,463</p>	 <p>StackStorm</p> <p>StackStorm StackStorm ★ 3,450</p>	 <p>Apache HERON</p> <p>Apache Heron Apache Software Foundation ★ 3,402</p>	 <p>RUN DECK</p> <p>Rundeck Rundeck ★ 3,343 Funding: \$3M</p>	 <p>beam</p> <p>Beam Apache Software Foundation ★ 3,341</p>
 <p>hazelcast IMDG</p> <p>Hazelcast IMDG Hazelcast ★ 3,331 Funding: \$35.08M</p>	 <p>BIGCHAINDB</p> <p>BigchainDB BigchainDB ★ 3,291 Funding: \$5.37M</p>	 <p>Claudia.js</p> <p>ClaudiaJS ClaudiaJS ★ 3,276</p>	 <p>openstack.</p> <p>OpenStack OpenStack ★ 3,232</p>	 <p>kind</p> <p>kind Cloud Native Computing Foundation (CNCF) ★ 3,194</p>	 <p>Tsuru</p> <p>Tsuru Tsuru ★ 3,182</p>	 <p>VELERO</p> <p>Velero VMware ★ 3,096 MCap: \$59.72B</p>	 <p>JENKINSX</p> <p>JenkinsX Continuous Delivery Foundation (CDF) ★ 3,071</p>	 <p>nuclio</p> <p>Nuclio iguazio ★ 2,983 Funding: \$48M</p>	 <p>MariaDB</p> <p>MariaDB MariaDB Corporation ★ 2,974 Funding: \$98.18M</p>	 <p>Sensu</p> <p>Sensu Sensu ★ 2,967 Funding: \$12.5M</p>

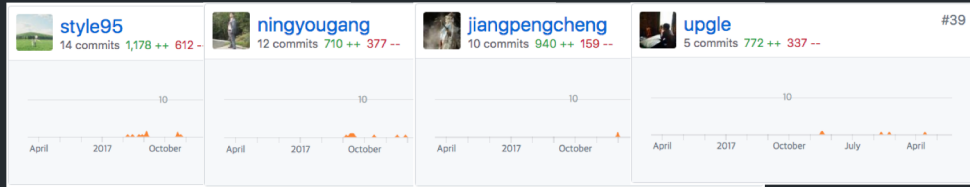


Supporters

The following companies and organizations have acknowledged support of the Apache OpenWhisk project as contributors or users of the technology.



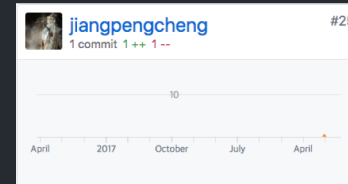
openwhisk



openwhisk-cli



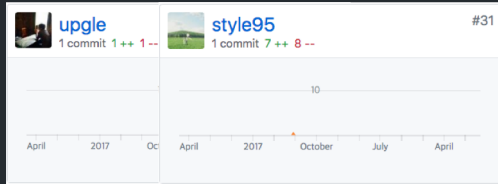
openwhisk-client-js



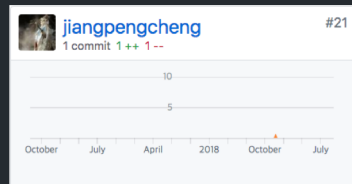
serverless-openwhisk



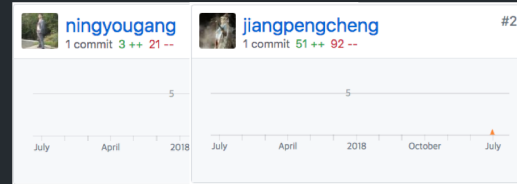
openwhisk-runtime-java



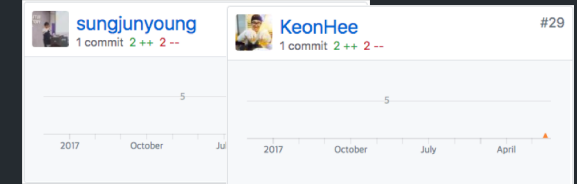
openwhisk-apigateway



openwhisk-catalog



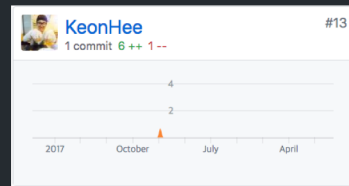
openwhisk-wskdeploy



openwhisk-client-go



openwhisk-package-alarms



10개 repo참여, 55개 커밋 머지 완료
현재 9개 추가 Pull requests 리뷰 중

Apache OpenWhisk is an open source serverless cloud platform <https://openwhisk.apache.org/>

openwhisk

apache

serverless

cloud

faas

functions-as-a-service

serverless-architectures

serverless-functions

docker

kubernetes

functions

2,605 commits

2 branches

1 release

1 environment

161 contributors

Apache-2.0

Document How to Setup OpenWhisk Using Docker for Mac.

Edit

New issue

#1431

 Closed

dubee opened this issue on 25 Oct 2016 · 12 comments



dubee commented on 25 Oct 2016 • edited ▾

Member



Currently, the documentation for setting up Docker on a Mac illustrates how to use OpenWhisk with Docker Machine. The documentation should be updated to demonstrate how to setup OpenWhisk on Docker for Mac.



1

Assignees



No one—assign yourself

Labels



deployment

documentation

enhancement



style95 commented on 11 Jan 2017 • edited ▾

Member + 😊 ...

@**dubeejw** Is there anything in progress about this issue?
If not, I want to contribute on this issue.

It looks many things should be discussed such as "ansible environment in mac", "how to consider xhyve vm as local environment" and so on..



dubee commented on 12 Jan 2017

Author Member + 😊 ...

@style95, feel free to help out. I don't think any documentation has been created yet for this issue.

Make OW run with docker for mac #1790

Merged rabbah merged 4 commits into `apache:master` from `style95:docker-for-mac` on 28 Jun 2017

Conversation 123

Commits 4

Checks 0

Files changed 18



style95 commented on 1 Feb 2017 3주

Member + 😊 ...

Draft version of documentation to setup OW on a Mac host is added.

I have no idea on documentation convention, PG(?), rebase rule.

I want someone to guide me about these community rules.

I know this branch is conflicting with master branch.

Once I get the review, I will amend them and rebase it.

I tried to minimize the changes and maximize to utilize existing contents.

Make OW run with docker for mac #1790

Merged rabbah merged 4 commits into `apache:master` from `style95:docker-for-mac` on 28 Jun 2017

Conversation 123

Commits 4

Checks 0

Files changed 18



style95 commented on 1 Feb 2017

Member



Draft version of documentation to setup OW on a Mac host is added.

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I want someone to guide me about these community rules.

I know this branch is conflicting with master branch.

Once I get the review, I will amend them and rebase it.

I tried to minimize the changes and maximize to utilize existing contents.



markusthoemmes commented on 28 Jun 2017

Member



Sounds good to me, thanks for clarification 👍



rabbah commented on 28 Jun 2017

Member



We will try to further improve this in the future to use `local` for docker for mac, and further strip the play dependence. Thanks for being patient and working this out!

5개월



rabbah merged commit `55e693a` into `apache:master` on 28 Jun 2017

1 check passed

[View details](#)

[Revert](#)

September 18, 2019 – September 25, 2019

Period: 1 week ▾

Overview



15 Active Pull Requests



9 Active Issues

 11

Merged Pull Requests

 4

Proposed Pull Requests

 3

Closed Issues

 6

New Issues



style95 commented on 27 Jun 2017

Author

Member



I hope this is reviewed before it becomes staled again..

TL님의 홍보(?)



JunHo Yoon
2017년 6월 28일 · 👤

<https://github.com/apache/incubator-openwhisk/pull/1790>

드더 울팀 동경님의 OpenWhisk PR 머지. 무려 4개월 걸림.
커미터가 ``Thanks for being patient and working this out!`` 라고 할만큼.. 끈기있었던 정면 돌파.



GITHUB.COM
Make OW run with docker for mac by style95 · Pull Request #1790 · apache/incubator-openwhisk
Draft version of documentation to setup OW on a Mac host is added. I have no idea on...

👍 Sangwook Cho, 외 6명

👍 좋아요 💬 댓글 ➦ 공유하기

 댓글을 입력하세요... 😊 📷 GIF 🗨️

5개월 만에 머지

여기서 잠깐!

뭐가 문제인가?

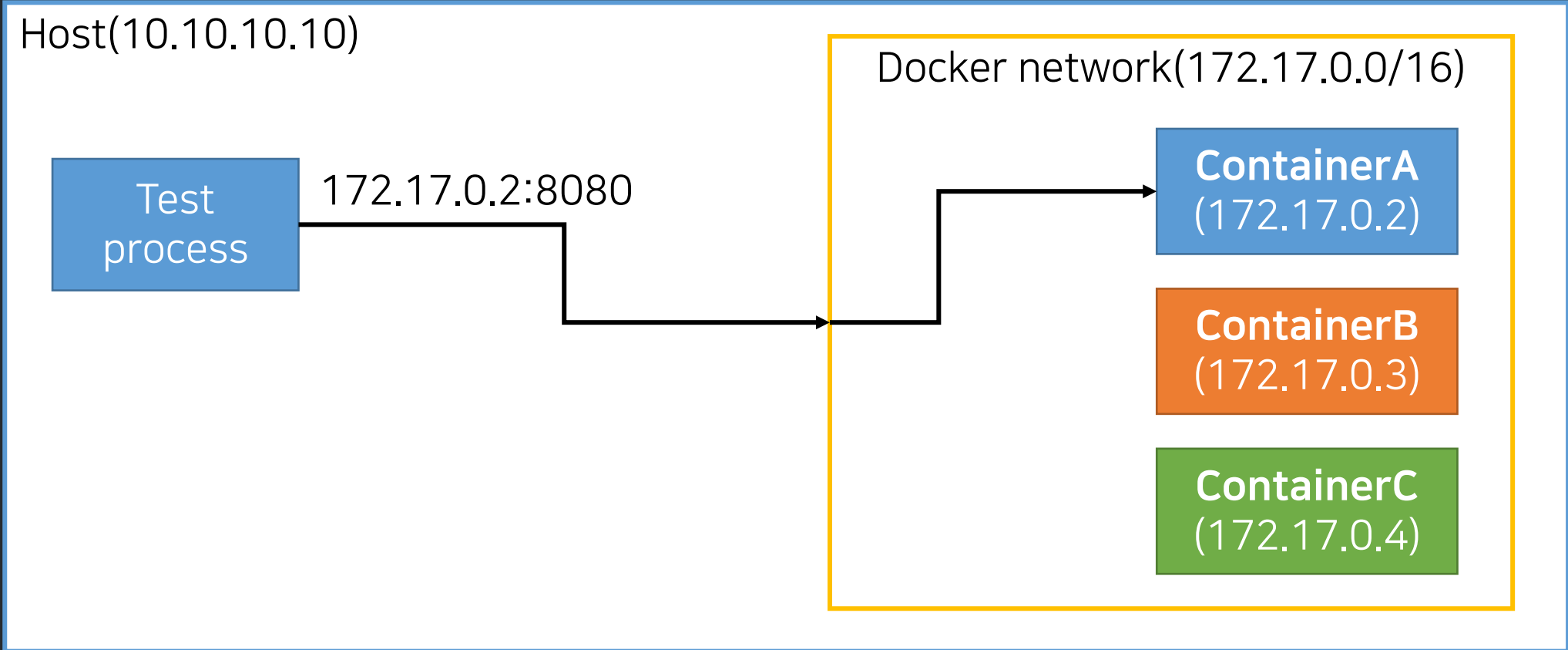
Host(10.10.10.10)

Docker network(172.17.0.0/16)

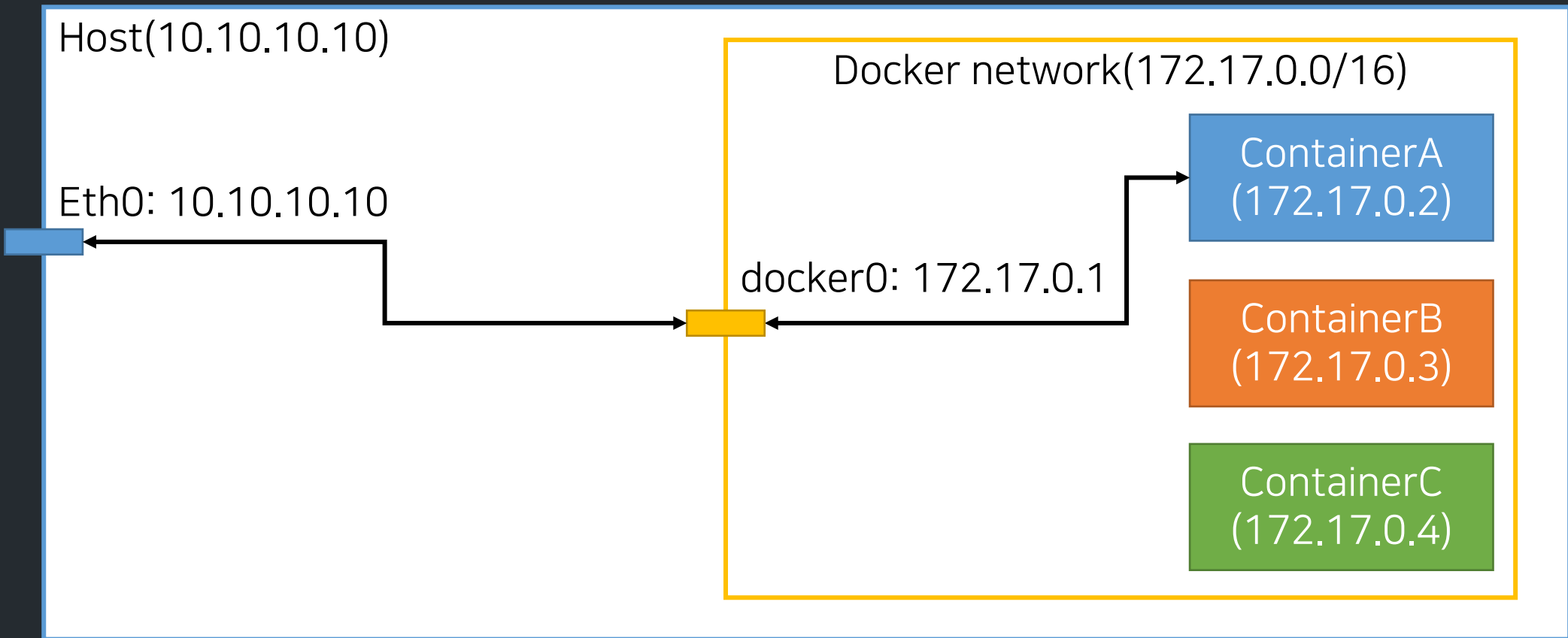
ContainerA
(172.17.0.2)

ContainerB
(172.17.0.3)

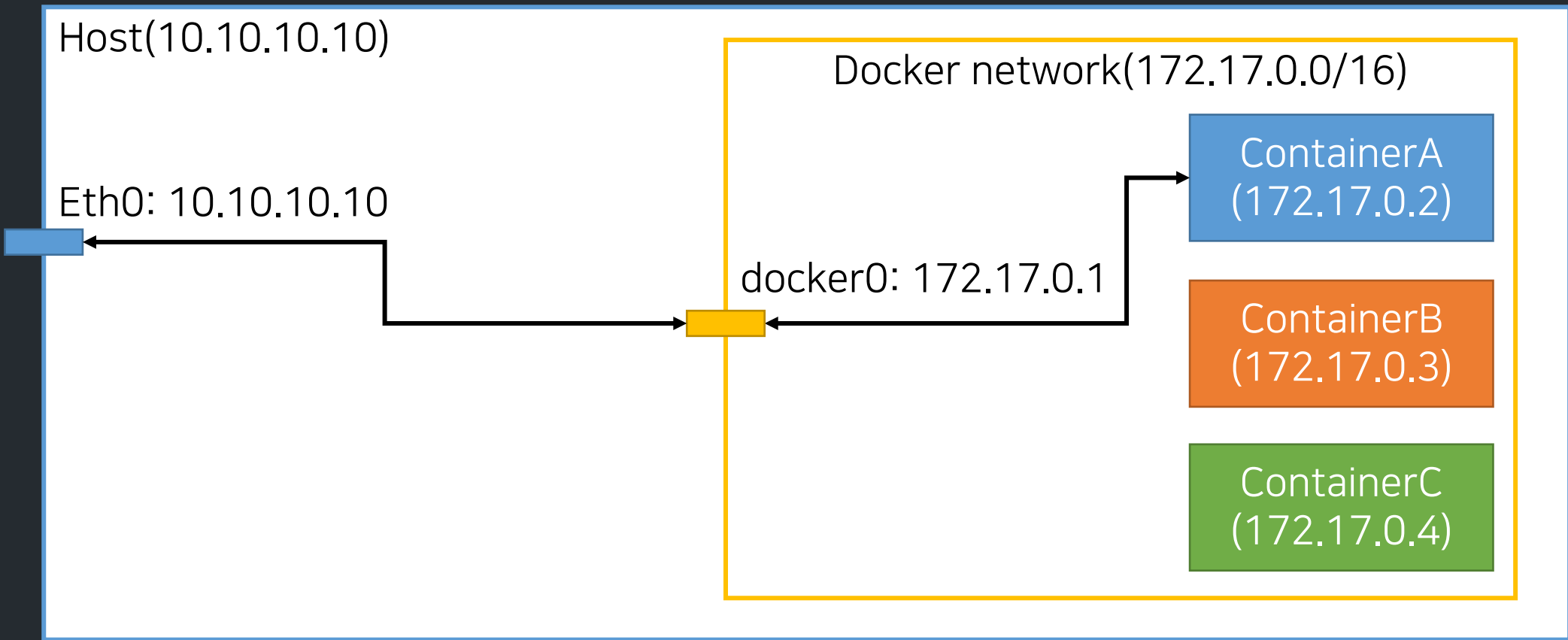
ContainerC
(172.17.0.4)



Host에서 컨테이너 IP로 직접 접근 필요



리눅스 기반의 Docker 네트워크 구조



docker0 인터페이스가 컨테이너들의 Gateway 역할

```
$ ifconfig
```

```
docker0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu  
1500
```

```
inet 172.17.0.1 netmask 255.255.0.0 broadcast 0.0.0.0
```

```
ether 02:42:4a:06:2c:db txqueuelen 0 (Ethernet)
```

```
RX packets 1600061407 bytes 757851585498 (705.8 GiB)
```

```
RX errors 0 dropped 0 overruns 0 frame 0
```

```
TX packets 2662761605 bytes 240562713498 (224.0 GiB)
```

```
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
.
```

```
.
```

```
.
```

[호스트 머신]

```
# route -n
```

```
Kernel IP routing table
```

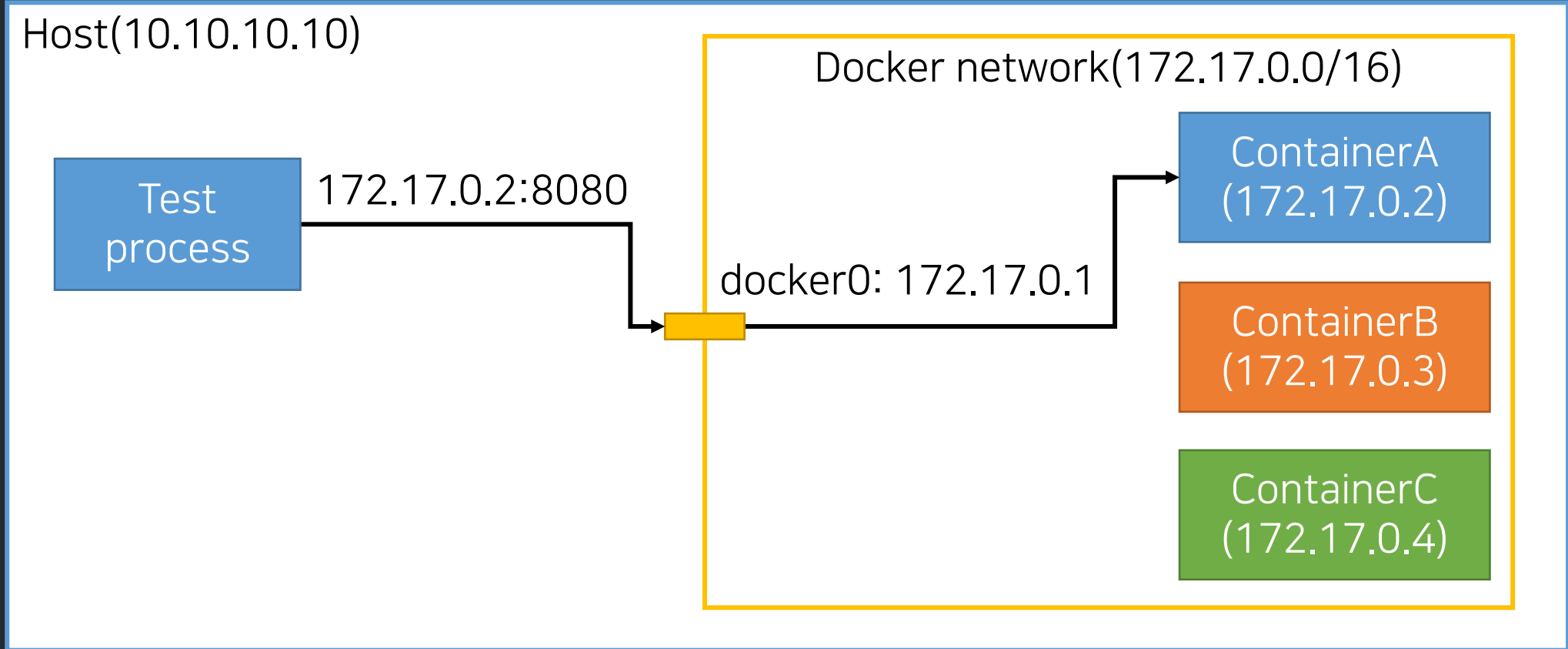
Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
0.0.0.0	10.106.100.1	0.0.0.0	UG	0	0	0	eth1
10.106.100.0	0.0.0.0	255.255.254.0	U	0	0	0	eth1
169.254.0.0	0.0.0.0	255.255.0.0	U	1003	0	0	eth1
172.17.0.0	0.0.0.0	255.255.0.0	U	0	0	0	docker0

[컨테이너 내부]

```
bash-4.4# route -n
```

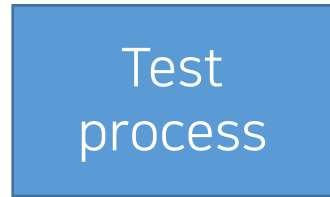
```
Kernel IP routing table
```

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
0.0.0.0	172.17.0.1	0.0.0.0	UG	0	0	0	eth0
172.17.0.0	0.0.0.0	255.255.0.0	U	0	0	0	eth0



리눅스에서는 접근이 가능

Host(10.10.10.10)



172.17.0.2:8080

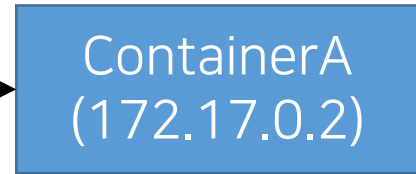


192.168.99.10



docker0: 172.17.0.1

Docker Network(172.17.0.0/16)



VM(Virtualbox) network(192.168.0.0/8)

맥 OS(Docker-machine) 에서의 구조

Docker-machine 예제

```
$ docker-machine ls
```

NAME	ACTIVE	DRIVER	STATE	URL	SWARM DOCKER ERRORS
default	*	virtualbox	Running	tcp://192.168.99.187:2376	v1.9.1

```
$ env | grep DOCKER
```

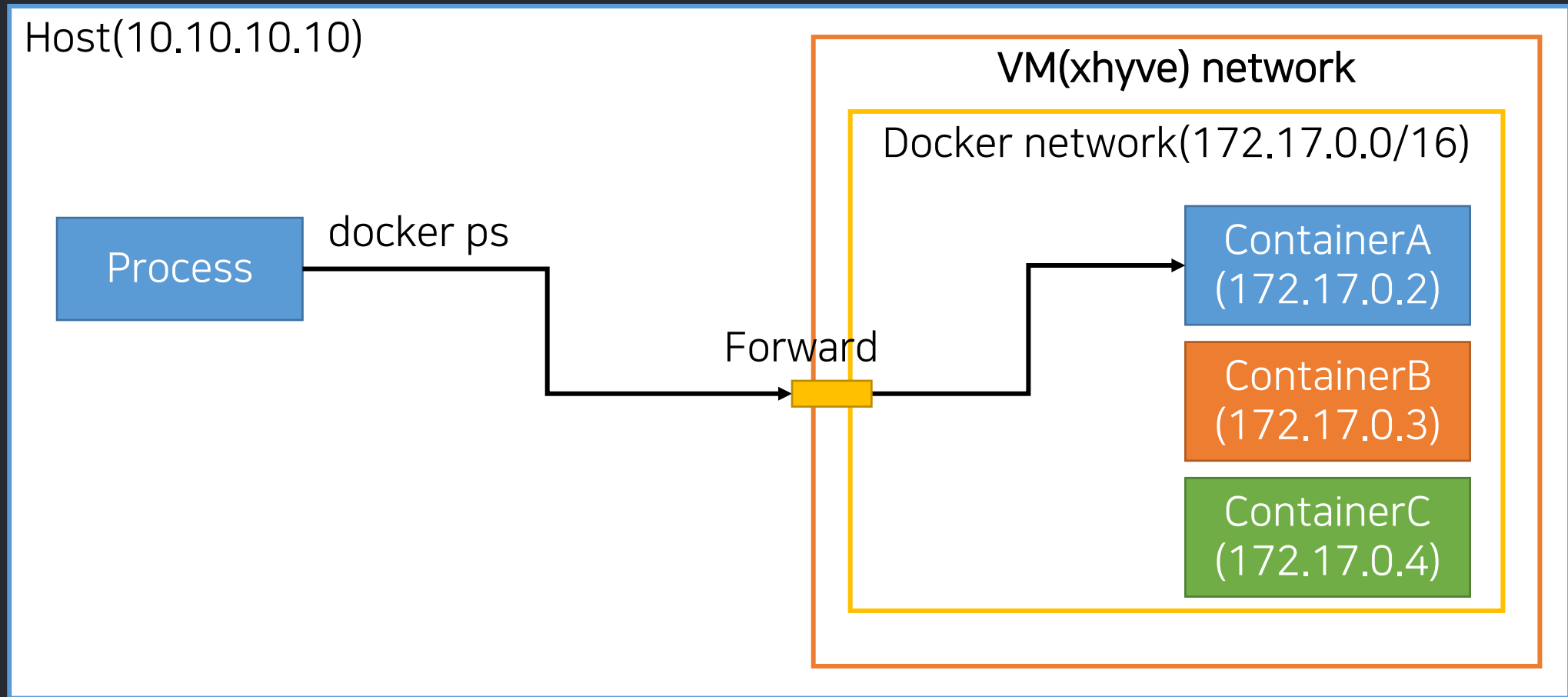
```
DOCKER_HOST=tcp://192.168.99.187:2376
```

```
DOCKER_MACHINE_NAME=default
```

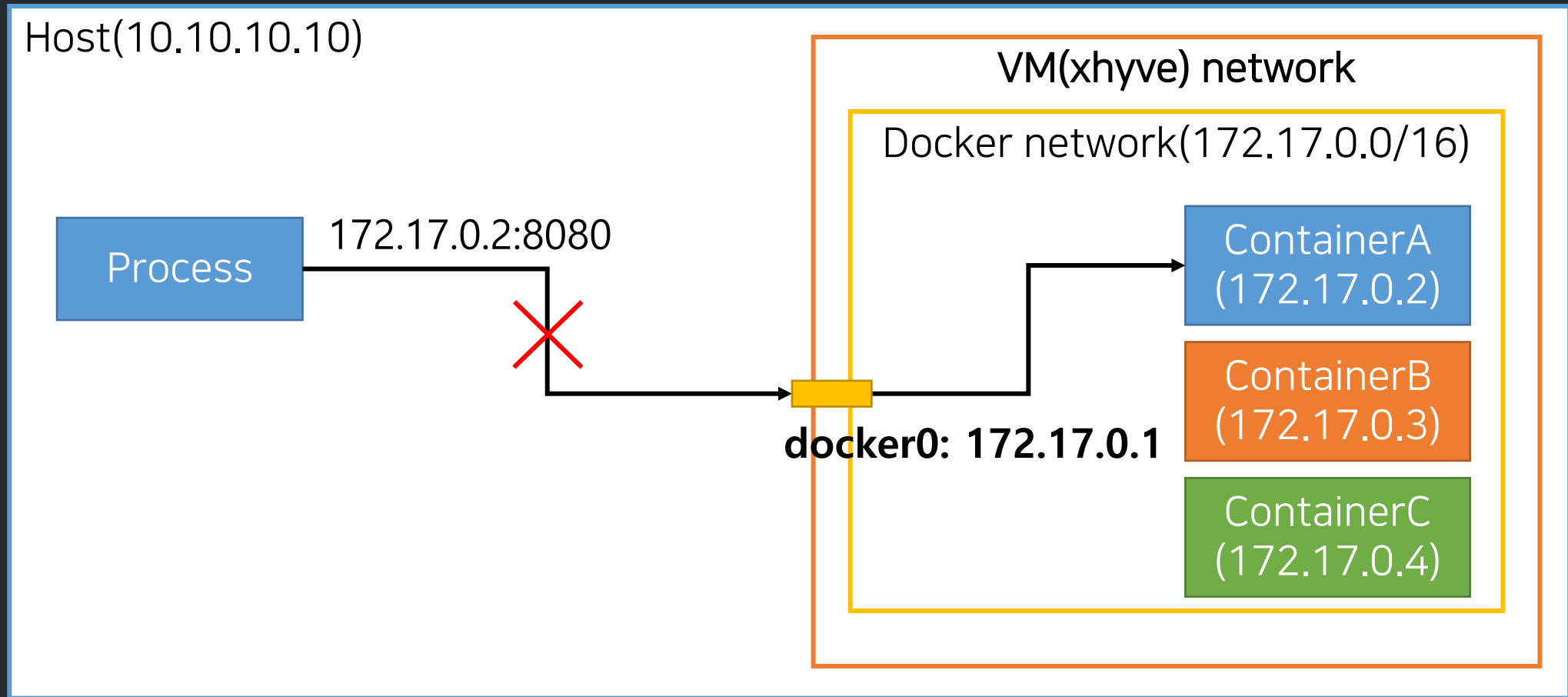
```
DOCKER_TLS_VERIFY=1
```

```
DOCKER_CERT_PATH=/Users/<your_username>/.docker/machine/machines/default
```

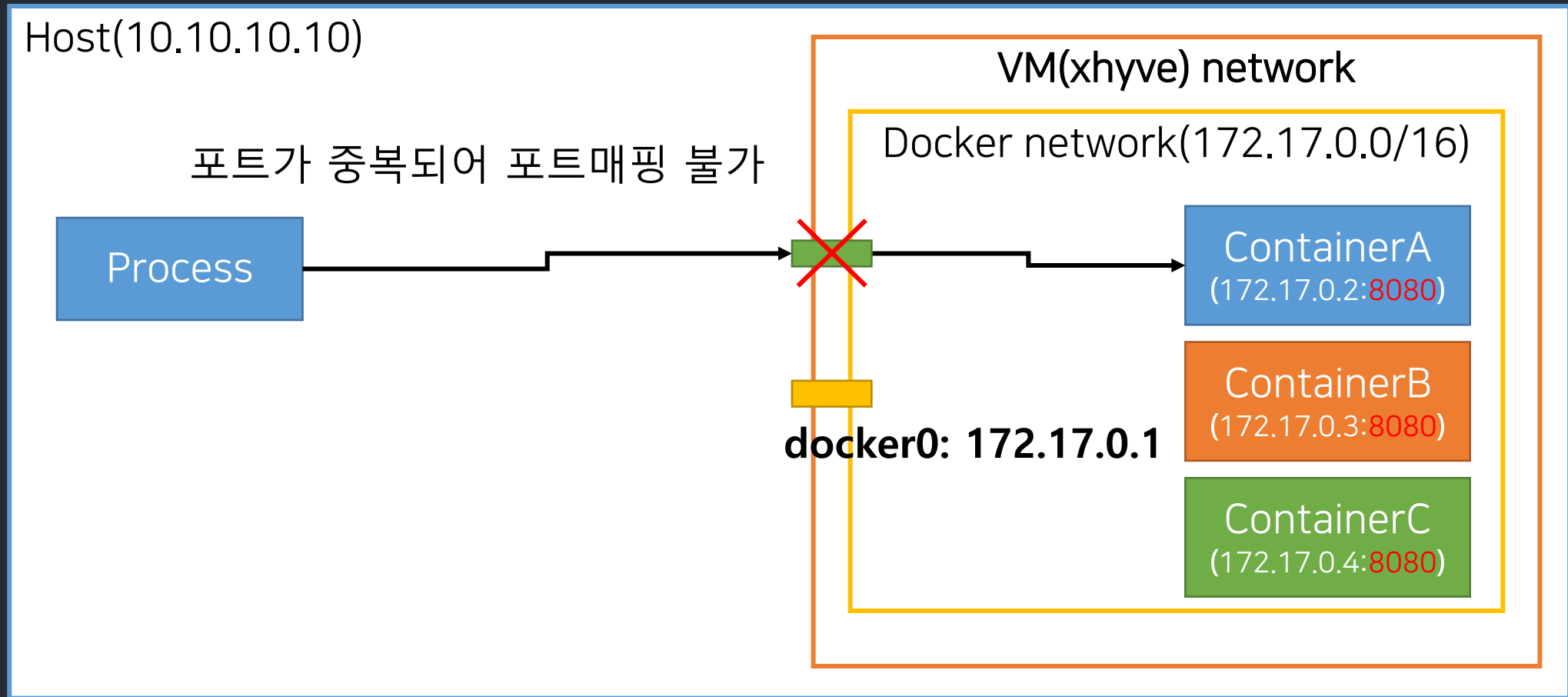
Docker for Mac



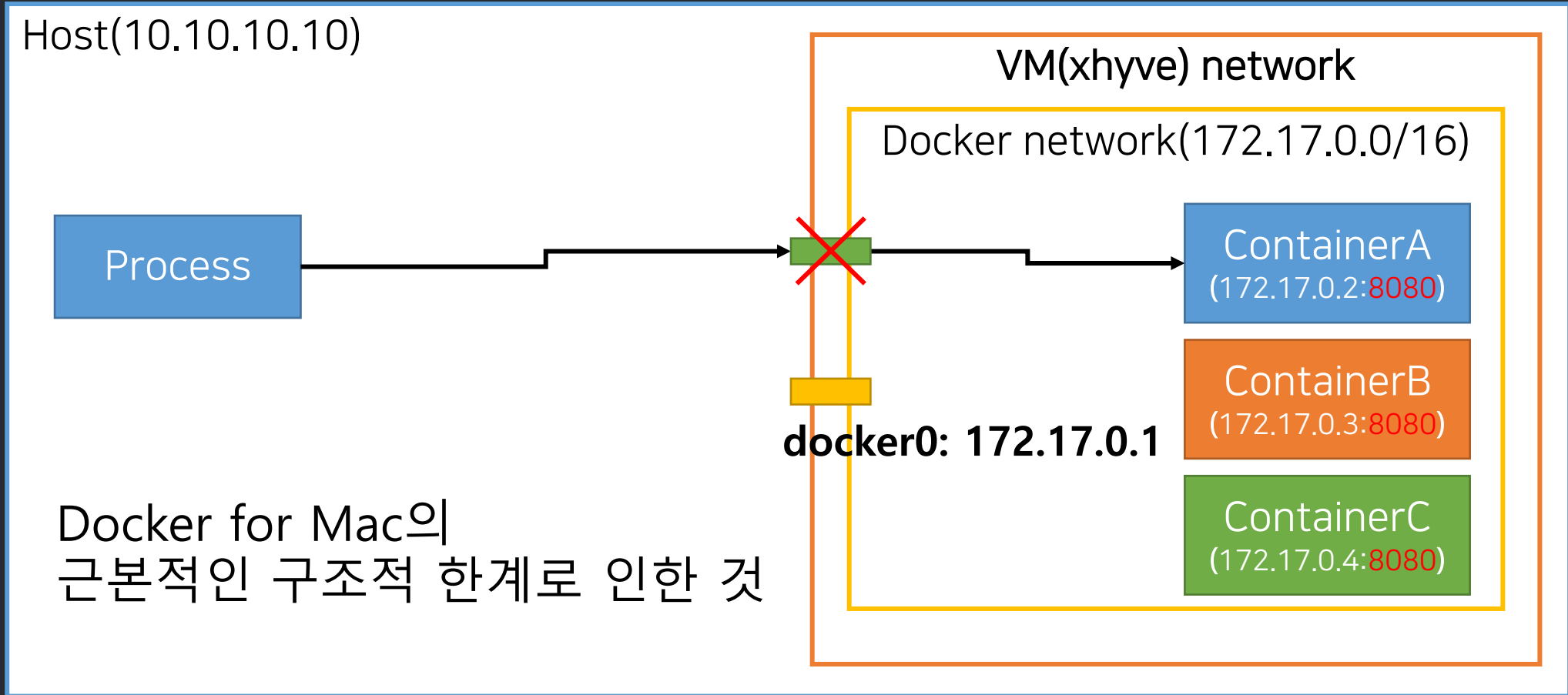
Docker for Mac



Docker for Mac



Docker for Mac



Docker for Mac

No docker0 on docker for mac? #22753

Open

NinoFloris opened this issue on 16 May 2016 · 113 comments



NinoFloris commented on 16 May 2016 • edited




Output of `docker version` :

```
Client:
 Version:      1.11.1
 API version:  1.23
 Go version:   go1.5.4
 Git commit:   5604cbe
 Built:        Wed Apr 27 00:34:20 2016
 OS/Arch:      darwin/amd64

Server:
 Version:      1.11.1
 API version:  1.23
 Go version:   go1.5.4
 Git commit:   8b63c77
 Built:        Tue May 10 10:39:20 2016
 OS/Arch:      linux/amd64
```

Docker for Mac



geerlingguy commented on 5 May 2017 • edited ▾ + 😊 ...

I just wanted to add a +1/subscribe along with everyone else in this thread, and add another voice to the feature request of being able to easily access docker containers through the bridge interface on unique/custom IP addresses.

I was ramming my head into the wall for at least 4 hours trying to figure out why I couldn't get any documented examples working, until I somehow found this issue, describing the problem perfectly.

For now, the workaround mentioned by @justincormack (#22753 (comment)) seems to work passably well. I'm adding experimental Docker support to Drupal VM using the instructions:

1. Add a host to `/etc/hosts` with `sudo /etc/hosts` (e.g. `192.168.1.100 mysite.dev`)
2. Create an alias on the loopback interface: `sudo sudo ifconfig lo0 alias 192.168.1.100/24`

Loopback interface를 마치 docker0 network 인 것처럼 사용

Docker for Mac

Activate `docker0` network

This is an optional step for local deployment. The OpenWhisk deployment via Ansible uses the `docker0` network interface to deploy OpenWhisk and it does not exist on Docker for Mac environment.

An expedient workaround is to add alias for `docker0` network to loopback interface.

```
sudo ifconfig lo0 alias 172.17.0.1/24
```

OpenWhisk에서도 동일하게 가이드

Docker for Mac

요청을 Docker network 내부에서 전송하자!

Squid Proxy를 활용

스쿼드 (소프트웨어)

위키백과, 우리 모두의 백과사전.

스쿼드(squid)는 대중적인 [오픈 소스\(GPL\)](#) 소프트웨어 [프록시 서버](#)이자 [웹 캐시](#)이다. 반복된 요청을 캐싱함으로써 웹서버의 속도를 향상시키는 것부터, 네트워크 자원을 공유하려는 사람들에게 웹, DNS와 다른 네트워크 검색의 캐싱을 제공하고, 트래픽을 걸러줌으로써 안정성에 도움을 주는 등에 이르기까지 광범위 하게 이용된다.

스쿼드는 기본적으로 [유닉스 계열](#) 시스템에서 돌아가도록 설계되었다.

스쿼드는 매우 오랜 기간 동안 개발되었기에 완성된 형태이며 튼튼하다. 기본적으로 [HTTP](#)와 [FTP](#)에 사용되지만 [TLS](#), [SSL](#), [HTTPS](#) 등과 같이 많은 [프로토콜](#)을 지원한다.

HTTP Proxy

Squid Proxy를 활용

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패킷을 전달하면, Destination으로 forwarding

Squid Proxy를 활용

Host(10.10.10.10)

Test
Process

3128 port

포트매핑

VM(xhyve) network

Docker network(172.17.0.0/16)

ContainerA
(172.17.0.2)

ContainerB
(172.17.0.3)

Squid-proxy
(172.17.0.4)



Squid Proxy를 활용

Host(10.10.10.10)

Test Process
Proxy configuration
localhost:3128

3128 port

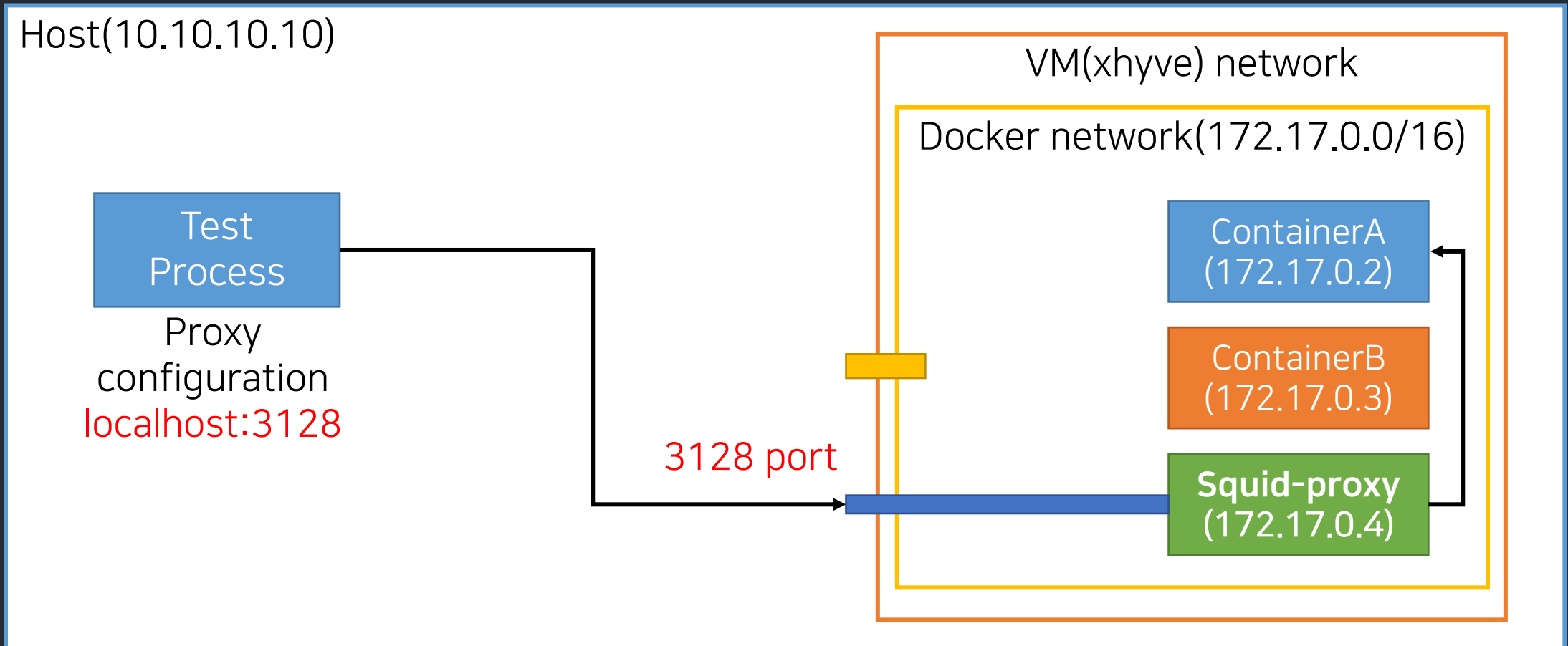
VM(xhyve) network

Docker network(172.17.0.0/16)

ContainerA
(172.17.0.2)

ContainerB
(172.17.0.3)

Squid-proxy
(172.17.0.4)



Squid Proxy를 활용

Host(10.10.10.10)

패킷은 먼저 proxy로 전달됨

Test Process

172.17.0.2:8080

Proxy configuration
localhost:3128

3128 port

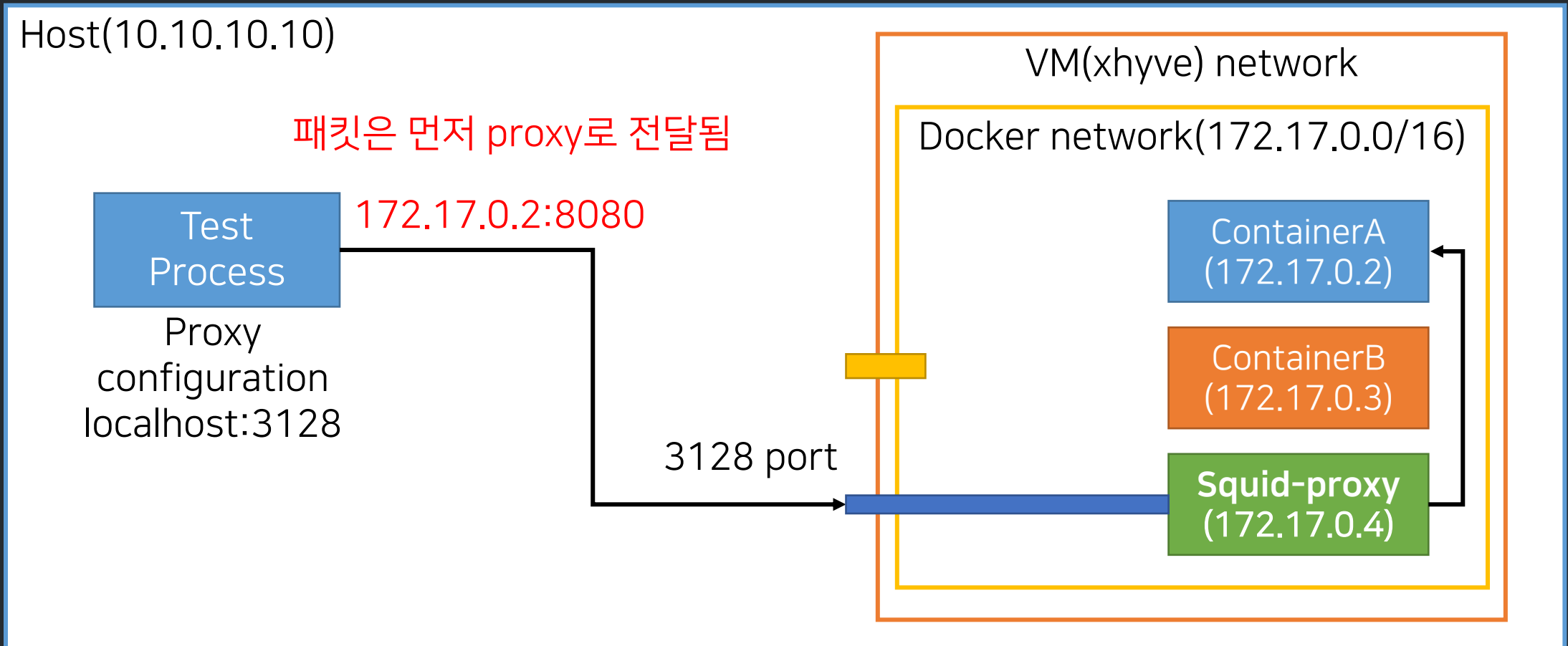
VM(xhyve) network

Docker network(172.17.0.0/16)

ContainerA
(172.17.0.2)

ContainerB
(172.17.0.3)

Squid-proxy
(172.17.0.4)



Squid Proxy를 활용

Host(10.10.10.10)

Test Process

Proxy configuration
localhost:3128

172.17.0.2:8080

3128 port

VM(xhyve) network

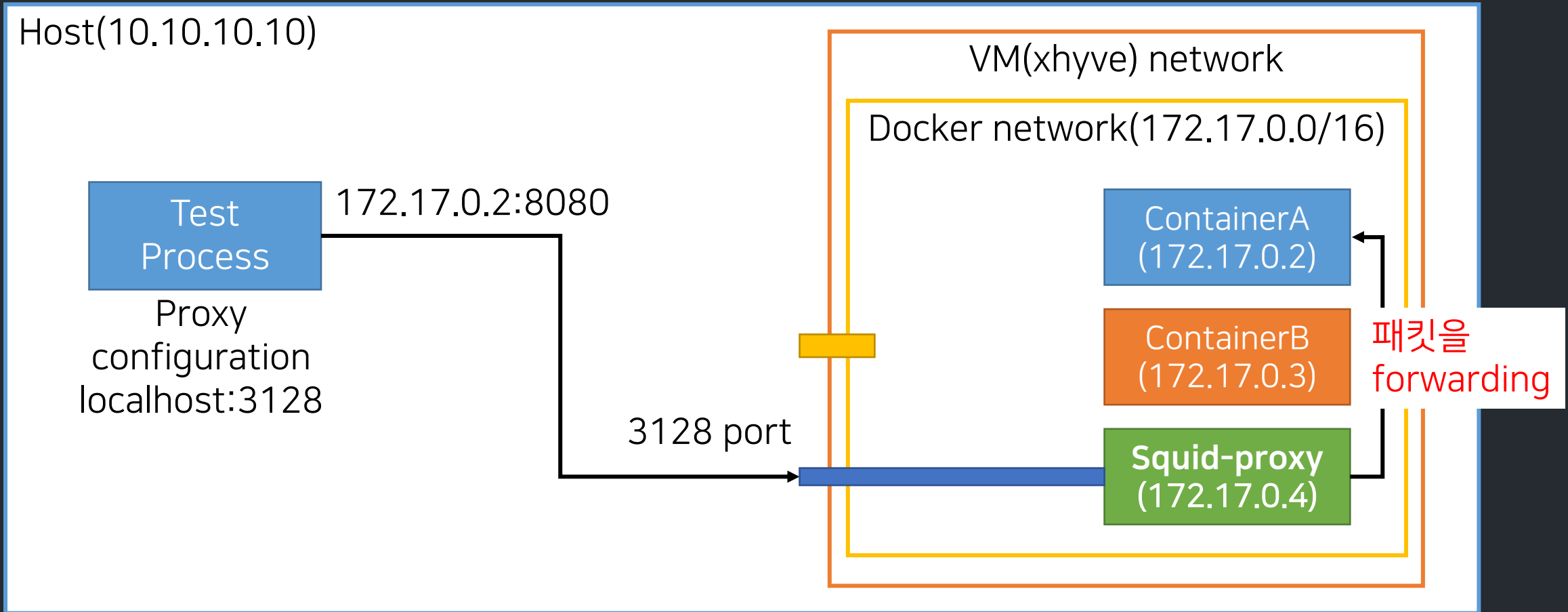
Docker network(172.17.0.0/16)

ContainerA
(172.17.0.2)

ContainerB
(172.17.0.3)

Squid-proxy
(172.17.0.4)

패킷을 forwarding



Akka-http client는 proxy를 지원하지않음

```
# IMPORTANT:
# Please note that this section mirrors `akka.http.client` however is used only for
# such as `Http().superPool` or `Http().singleRequest`.
client = {
  # The default value of the `User-Agent` header to produce if no
  # explicit `User-Agent`-header was included in a request.
  # If this value is the empty string and no header was included in
  # the request, no `User-Agent` header will be rendered at all.
  user-agent-header = akka-http/${akka.version}


  # The time period within which the TCP connecting process must be completed.
  connecting-timeout = 10s

  # The time after which an idle connection will be automatically closed.
  # Set to `infinite` to completely disable idle timeouts.
  idle-timeout = 60 s


  # The initial size of the buffer to render the request headers in.
  # Can be used for fine-tuning request rendering performance but probably
  # doesn't have to be fiddled with in most applications.
  request-header-size-hint = 512

  # The proxy configurations to be used for requests with the specified
  # scheme.
  proxy {
    # Proxy settings for unencrypted HTTP requests
    # Set to 'none' to always connect directly, 'default' to use the system
    # settings as described in http://docs.oracle.com/javase/6/docs/technotes/guides
    # or specify the proxy host, port and non proxy hosts as demonstrated
    # in the following example:
    # http {
    #   host = myproxy.com
    #   port = 8080
    #   non-proxy-hosts = ["*.direct-access.net"]
    # }
    http = default

    # Proxy settings for HTTPS requests (currently unsupported)
    https = default
  }
}
```

 style95 commented on 8 Mar 2017 Author Member + 😊 ...

I am not sure whether akka-http support proxy configuration.
[akka/akka-http#115](#)

 style95 commented on 8 Mar 2017 Author Member + 😊 ...

I could send the request to the container using container IP with [scalaj-http](#) which explicitly supports proxy configuration.

```
import scalaj.http._
.
.
.
it should "run sample without init" in {
  println(Http("http://172.17.0.3:5984").proxy("localhost", 3128).asString)
}
```

Play-ws client 적용

style95 commented on 20 Jun 2017 • edited ▾

Author Member + 😊 ...

@rabbah @markusthoemmes @csantanapr
Please review this.

To recall, let me recap the changes.

1. Socat container.
This is to enable docker remote api with docker for mac.
2. Docker-machine and Mac environment in ansible.
With this pr, there will be one more environment in ansible, `docker-machine`.
This environment is kept for those who use OW with docker-machine.
In the future, this environment will be deprecated.
So, now `mac` environment means Docker for mac environment.
3. Convert AkkaHttpUtils to **Play-ws client**
Since AkkaHttpUtils does not support proxy configuration, http client is changed to `play-ws`.
There is no change in logic.
4. **Squid proxy container**
This is only to run unit tests with Docker for mac.
It will forward all the requests to a given target container.

Since there was no retry-delay on connection error in upstream squid proxy, following tests failed.

```
actionContainers.DockerExampleContainerTests > bad containers should timeout bad proxy w
```

So I added retry-delay, manually compiled it and built docker container.
Now it works as expected.

One remaining task is update [this](#) to my manually built squid container.

I think it would be the best to publish that squid container to `openwhisk namespace` in docker hub.
But if it's not possible, I will publish it in my namespace. (e.g.: `style95/squid:3.5`)

Merged Make OW run with docker for mac #1790
Changes from all commits ▾ File filter... x Clear filters Jump to... ▾ 0 / 18 files viewed ⓘ Review changes ▾

70 ansible/README.md

```
60 + docker run -d -p 3128:3128 style95/squid:3.5.26-p1
61 + `
62 +
63 + You need to configure gradle proxy settings.
64 +
65 + **/.gradle/gradle.properties**
66 + `
67 + systemProp.http.proxyHost=localhost
68 + systemProp.http.proxyPort=3128
54 69 `
55 70
56 71 ### Using Ansible
@ -127,6 +142,7 @@ cd ansible
127 142 ansible-playbook -i environments/<environment> couchdb.yml
128 143 ansible-playbook -i environments/<environment> initdb.yml
129 144 ansible-playbook -i environments/<environment> wipe.yml
145 + ansible-playbook -i environments/<environment> apigateway.yml
130 146 ansible-playbook -i environments/<environment> openwhisk.yml
131 147 ansible-playbook -i environments/<environment> postdeploy.yml
132 148 `
@ -145,6 +161,7 @@ cd <openwhisk_home>
```

Production

Naver 노출



style95 commented on 14 Jan 2017

Member + 😊 ...

I am facing this issue.

```
+ /Users/Naver/git/openwhisk/ansible/./bin/wsk -i --apihost 192.168.0.23 package update
error: Package update failed: The server is currently unavailable (because it is overloa
```

As per the `roles/apigateway/tasks/deploy.yml` file, it is looking for docker images "openwhisk/apigateway"

```
docker_container:
  name: apigateway
  image: openwhisk/apigateway
  state: started
  recreate: true
  restart_policy: "{{ docker.restart.policy }}"
  hostname: apigateway
```

But in my local environment, there is no images named "openwhisk/apigateway" as well as no running apigateway after deployment with `openwhisk.yml`

```
macbook13:ansible style95$ docker images | grep api
macbook13:ansible style95$
```

Is this normal? or did I miss anything?

I did `./gradlew distDocker` to build the openwhisk docker images

Naver 노출



style95 commented on 14 Jan 2017

Member + 😊 ...

I am facing this issue.

```
+ /Users/Naver/git/openwhisk/ansible/../../bin/wsk -i --apihost 192.168.0.23 package update
error: Package update failed: The server is currently unavailable (because it is overloa
```

As per the `roles/apigateway/tasks/deploy.yml` file, it is looking for docker images "openwhisk/apigateway"

```
docker_container:
  name: apigateway
  image: openwhisk/apigateway
  state: started
  recreate: true
  restart_policy: "{{ docker.restart.policy }}"
  hostname: apigateway
```

But in my local environment, there is no images named "openwhisk/apigateway" as well as no running apigateway after deployment with `openwhisk.yml`

```
macbook13:ansible style95$ docker images | grep api
macbook13:ansible style95$
```

Is this normal? or did I miss anything?

I did `./gradlew distDocker` to build the openwhisk docker images

IBM OpenWhisk 담당 부사장 -> 영국 부사장

From: Michael M Behrendt/Germany/IBM
To: Gerry Reilly/UK/IBM@IBMGB
Cc: Todd Moore/Austin/IBM@IBMUS, Ashley Brisco/Birmingham/IBM@IBMUS, Andreas Nauerz/Germany/IBM@IBMDE, Trevor Bodz/Austin/IBM@IBMUS
Date: 15/01/2017 08:41
Subject: Fw: [openwhisk/openwhisk] Document How to Setup OpenWhisk Using Docker for Mac. (#1431)

fyi - naver seems to be doing some active work around openwhisk

```
+ /Users/Naver/git/openwhisk/ansible/../bin/wsk -i --apihost 192.168.0.23 package update --auth
```

Thanks & best regards
Michael

IBM Distinguished Engineer
Chief Architect, Bluemix Core Platform
Mobile: +49-170-7993527
michaelbehrendt@de.ibm.com | @michael_beh

IBM 영국 부사장 -> 한국 IBM 상무

From: Gerry Reilly/UK/IBM

To: ChangWoo Jung/Korea/IBM@IBMKR

Date: 01/17/2017 05:45 AM

Subject: Fw: [openwhisk/openwhisk] Document How to Setup OpenWhisk Using Docker for Mac. (#1431)

Hi ChangWoo

Looks like we are starting to see some real activity from Naver around OpenWhisk. Would be interested if you hear anything?

regards

gerry

IBM 한국 상무로부터의 연락

안녕하세요.

저는 한국 IBM에 근무하는 정창우 라고 합니다.

OpenWhisk와 관련해서 유럽 팀에서 많이 보고 있는데, 김동경씨께서 관심을 가지고 진행하시는 일들에 대해 좀더 알고 싶어하는것 같습니다. 저는 이분야에 현재 직접적으로 관여하고 있지는 않지만, OpenWhisk를 담당하는 VP와 일했던 인연으로 제가 도움이 될수 있는 부분들이 있는지 보려고 합니다.

제가 집이 분당이라서, 사실 퇴근길에 들어서 잠깐 뵙고 (부담없이) 말씀 나눌수 있는 기회가 있으면 좋을것 같은데, 가능하실까요?

Best Regards,

Changwoo Jung (정창우 상무)

Lab Director - Korea Lab & Client Center Korea Executive, University Program Lead for Korea

Member of IBM Academy of Technology, IBM

E-mail: jungcw@kr.ibm.com / Office: +82-2-3781-8422 / Mobile: +82-10-4995-8422

Assistant: Lee, MyungJae (E-mail: leemyj@kr.ibm.com / Tel: +82-2-3781-5206)

Please visit [IBM Korea Lab & Client Center Korea site](#)

IBM 한국 상무로부터의 연락

RE: Fwd: Fw: [openwhisk/openwhisk] Document How to Setup OpenWhisk Using Docker for Mac. (#1431) 

보낸사람 **VIP** 윤준호<juno.yoon@navercorp.com> 주소록에 추가 | [메시지](#) | [약속초대](#)

받는사람 <jungcw@kr.ibm.com>

참조 김동경<dominic.kim@navercorp.com>, 김성관<sungkwan.kim@navercorp.com>, 유장선<jangseon.ryu@navercorp.com>

안녕하세요. 정창우님.

티미팅 진행 진행 가능할것 같습니다.

가능하신 날짜를(가급적 설이후) 알려주시면 저희 사무실 2층 회의실에서 진행하면 될것 같습니다.

저희도 궁금한 점이 좀 있었는데요.. 이를 먼저 알려드리는 편이 나올 것 같습니다.

- * openwhisk 측에서 현재 개발자들에게 어떤 지원을 하고 있는지?
- * 국내에 openwhisk를 사용하는 레퍼런스가 있는지?
- * docker 버전이 증가함에 따라 docker service 등의 신규 기능들이 들어오는데, 이에 대해서 대응 계획이 있는지?

감사합니다.

OpenStack days 2017



Container Day
13:00~13:50

발표명	Serverless Computing Platform with OpenWhisk
발표자	네이버 김동경
발표자 프로필	2010년부터 5년간 삼성전자에서 분산 메시징 / 클라우드 / 빅데이터 / 이벤트 프로세싱에 관련된 플랫폼들을 개발해왔습니다. 현재는 네이버에서 Serverless 컴퓨팅 플랫폼을 개발하고 있고, 관련 오픈소스 구현체인 Apache OpenWhisk의 Contributor로도 활동하고 있습니다.
발표요약	최근 Serverless computing 기술에 대한 관심이 높아지고 있습니다. Serverless computing이란, 개발자는 서버의 provisioning이나 운영을 신경쓸 필요 없이, 코드만 작성해서 등록하면, 플랫폼이 알아서 해당 코드를 실행해주고, 결과를 반환해주는 시스템을 말합니다. 자주 실행되지 않는 로직의 실행이나, Thrid party API 연동, Sandbox 형태의 안전한 실행 환경 등이 필요할 때, 유용하게 이용할 수 있습니다. 네이버 사내에서도 이런 Serverless computing에 대한 요구사항이 생기기 시작했고, 여러 opensource들을 고려하여, Apahce OpenWhisk를 기반으로 구축을 시작했습니다. 네이버 사내 플랫폼들은 Keystone으로 인증/권한이 통합되어 있기에, 본 플랫폼도, Keystone과 연동이 필요했고, OpenWhisk의 인증 및 권한의 개념을 Keystone의 인증/권한 개념으로 매핑하는 작업이 필요했습니다. 본 세션에서는 Serverless computing에 대한 기본적인 소개 및 그 Open-source 구현체인 Apache OpenWhisk에 대한 소개, 그리고 이를 네이버에 도입하는 과정에서 겪고 있는 경험 및 고민들을 공유합니다



Track I
15:10~15:40

발표명	OpenStack 기반의 Kubernetes, 어디까지 해봤니?
발표자	IBM 클라우드 에반젤리스트 공진기 차장
발표자 프로필	개발, 인프라, 네트워크, 보안 등 컴퓨터에 관련된 모든 부분에 알지만 넓은 지식을 토대로 한국IBM에서 Bluemix Technical Evangelist로 활동하면서 새로운 기술과 소식을 전파하고 있습니다.
발표요약	오픈소스 기반의 클라우드와 컨테이너가 확장되면서 Kubernetes 기반으로 OpenStack을 운영하거나, OpenStack 기반으로 Kubernetes를 운영하는 시도가 있습니다. 이 세션에서는 Cinder 스토리지나 로드 밸런서처럼 OpenStack과 Kubernetes를 잘 연동할 수 있는 방법으로부터, 컨테이너 볼륨처럼 Kubernetes에 필요하지만 OpenStack에서는 제공되지 않는 기능들, Swift object storage처럼 OpenStack에서는 제공되지만 Kubernetes에서 지원되지 않는 기능들을 짚어봅니다. 그리고 Kubernetes 플러그인을 활용하거나 새로운 OpenStack 기능을 통해 이 간극을 줄여 OpenStack 기반으로 Kubernetes를 효과적으로 운영할 수 있는 방안을 찾아봅니다.

IBM DeveloperConnect 2017



IBM DeveloperConnect 2017

★ DeveloperConnect 2017 행사 관련 강연자 안내 드립니다

보낸사람 **VIP** SunAh Jang<sajang@kr.ibm.com> 주소록에 추가 | 메시지 | 약속초대

받는사람 <dominic.kim@navercorp.com>

안녕하세요, 김동경님
IBM 개발자 마케팅 장선아입니다

우선 지난 Container Day 2017에서 드린 요청에 발표를 긍정적으로 검토해주셔서 감사합니다.
지난해에 이어 올 DeveloperConnect은 11월 9일에 르메르디앙(구. 리츠칼튼)에서 진행됩니다.

아래와 같이 키노트 스피커는 확정이 되었으며, 세션 아젠다를 확정 중에 있습니다.

Start	End	Duration	Subject	Speaker	
10:30	10:40	0:10	Welcome Speech	Andrew Chang, GM, IBM Korea	
10:40	11:10	0:30	IBM Approach on Open Technology & Developer engagement	Jonas Jacobi, IBM VP, Developer Advocacy	
11:10	11:40	0:30	Watson with GitHub	Christian Weber, GitHub	
11:40	12:10	0:30	Tech trend : Transformation in Cloud Era, OpenWhisk (TBD)	Michael M Behrendt, OpenWhisk	
12:10	13:00	0:50	Lunch		
			Cloud	Open Source	AI
13:00	13:40	0:40			
13:40	14:20	0:40			
14:20	15:00	0:40			
15:00	15:20	0:20	Break		
15:20	16:00	0:40			
16:00	16:40	0:40			
16:40	17:20	0:40			

관련하여, 김동경님의 OpenWhisk 세션에 대한 제목, 시놉시스를 받고자 합니다.
우선 Draft로 OpenStack Day 2017에 있었던 내용을 넣어두었습니다.

제목, 시놉 관련하여 답변 부탁드립니다, 발표자 소개 부분은 동일하게 진행하고자 하는데 혹시 새로운 버전이 있으시면 공유 부탁드립니다.

OpenWhisk 담당 부사장과의 미팅

보낸사람 **VIP** SunAh Jang<sajang@kr.ibm.com> 주소록에 추가 | 메시지 | 약속초대

받는사람 김동경<dominic.kim@navercorp.com>

김동경님, 안녕하세요

확인 결과 **Michael Behrendt 부사장님은 Apache와 Naver의 향후 비즈니스 협력관계에 대해 미팅을 할 의사가 있으신 것으로 확인되었습니다.**
실제 개발단의 기술적인 질문들은 팀내 개발자분과 연결해주시겠다고 하네요. 11월 부사장님 방한시, Naver 임원분과 미팅을 진행하실지 확인 부탁드립니다.
감사합니다.

Regards,

Sunah Jang

Developer Outreach Marketing Manager,
Marketing & Communications, IBM Korea
+82-10-4995-4686
sajang@kr.ibm.com

개발자라면 지금 방문하세요! <https://developer.ibm.com/kr/>

☆ IBM 미팅 내용 공유 

보낸사람  김동경<dominic.kim@navercorp.com> [메시지](#) | [약속초대](#)

받는사람 pasta<dl_pasta@navercorp.com>

참조 김태웅<taewoong.kim@navercorp.com>, 김건희<geonhui.kim@navercorp.com>, <dominic.kim@navercorp.com>

금일 IBM과 진행했던 미팅 내용 공유 드립니다.

- * 일시: 2017. 11. 10
- * 시각: 오전 9시 30분
- * 장소: 여의도 IBM 한국 본사. 12층 m08 미팅룸
- * IBM측 참석자: Michael Behrendt. 정창우 상무, 공진기 차장, 장선아 차장
- * NAVER 참석자: 윤준호, 김동경


주요 내용

실무진과 직접 커뮤니케이션

검색결과 (33) | scalability issue material | 메일 제목만 보기

읽음 삭제 답장 전체답장 전달 이동 필터

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	김동경	[openwhisk-etc] Re: Scalability issue material
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Markus Thoem...	[보낸메일함] Re: Scalability issue material
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Markus Thoem...	[openwhisk-etc] Re: Scalability issue material
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	김동경	[assigned to me] Re: Scalability issue material
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Markus Thoem...	[보낸메일함] Re: Scalability issue material
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Markus Thoem...	[assigned to me] Re: Scalability issue material
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	김동경	[openwhisk-etc] Re: Scalability issue material
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Markus Thoem...	[보낸메일함] Re: Scalability issue material
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	김동경	[openwhisk-etc] RE: Scalability issue material
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	윤준호	[보낸메일함] RE: Scalability issue material
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	윤준호	[openwhisk-etc] RE: Scalability issue material
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	김동경	[openwhisk-etc] RE: Scalability issue material
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	윤준호	[보낸메일함] RE: Scalability issue material
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	윤준호	[임시보관함] RE: Scalability issue material
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	윤준호	[openwhisk-etc] RE: Scalability issue material
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	김동경	[openwhisk-etc] RE: Scalability issue material
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	윤준호	[보낸메일함] RE: Scalability issue material
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	윤준호	[openwhisk-etc] Re: Scalability issue material
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Markus Thoem...	[openwhisk-etc] Re: Scalability issue material

 **rabbah** #1
419 commits **46,395 ++** **45,664 --**



April 2017 October July April

 **markusthoemmes** #2
311 commits **93,474 ++** **82,555 --**



April 2017 October July April

IBM OpenWhisk 중국 개발자와의 만남 이후

-----Original Message-----

From: "Ying Chun Guo" <guoyingc@cn.ibm.com>

To: <dominic.kim@navercorp.com>;

Cc: "Matt Rutkowski" <mrutkows@us.ibm.com>;

Sent: 2018-07-26 (목) 14:54:01

Subject: Apache OpenWhisk Supporter/Provider

Hi, Dominic

It was nice to meet with you at the LC3 @ Beijing. I'm Daisy from IBM OpenWhisk team.

OpenWhisk website is being update. There will be a supporter/provider company list in the new website. Would you like to add naver's logo there ? If you want, my colleague Matt will help. He is the leader of OpenWhisk community. He is working on the website now.

Thanks and regards
Ying Chun Guo (Daisy)

[attachment "NAVER LOGOTYPE.zip" deleted by Matt Rutkowski/Austin/IBM]

NAVER를 OpenWhisk 공식 Supporter로 등록

Supporters

The following companies and organizations have acknowledged support of the Apache OpenWhisk project as contributors or users of the technology.



NAVER 노출 실수가 쏟아올린 작은 공(?)

신선하고 재미있다!

그래서 뭘 했는데?

코드(Commit) != 컨트리뷰션

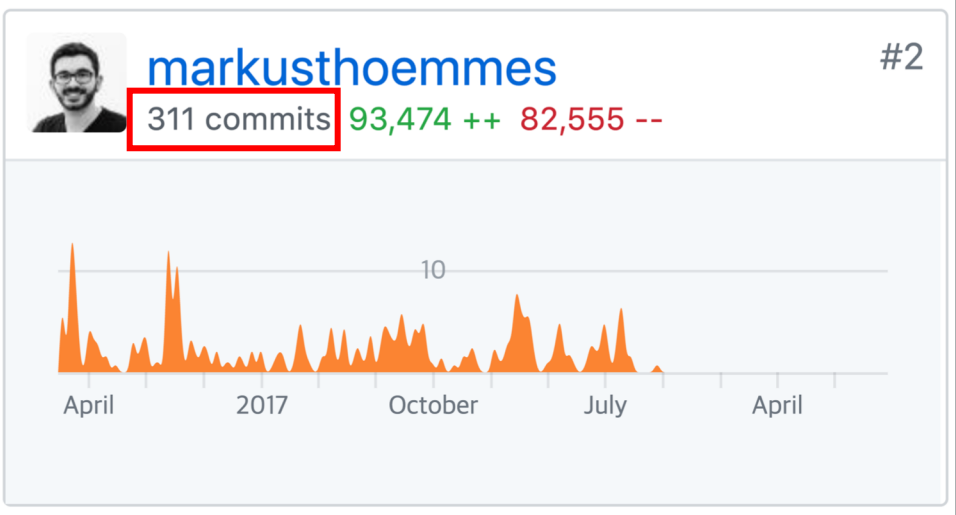


style95

#25

14 commits 1,178 ++ 612 --



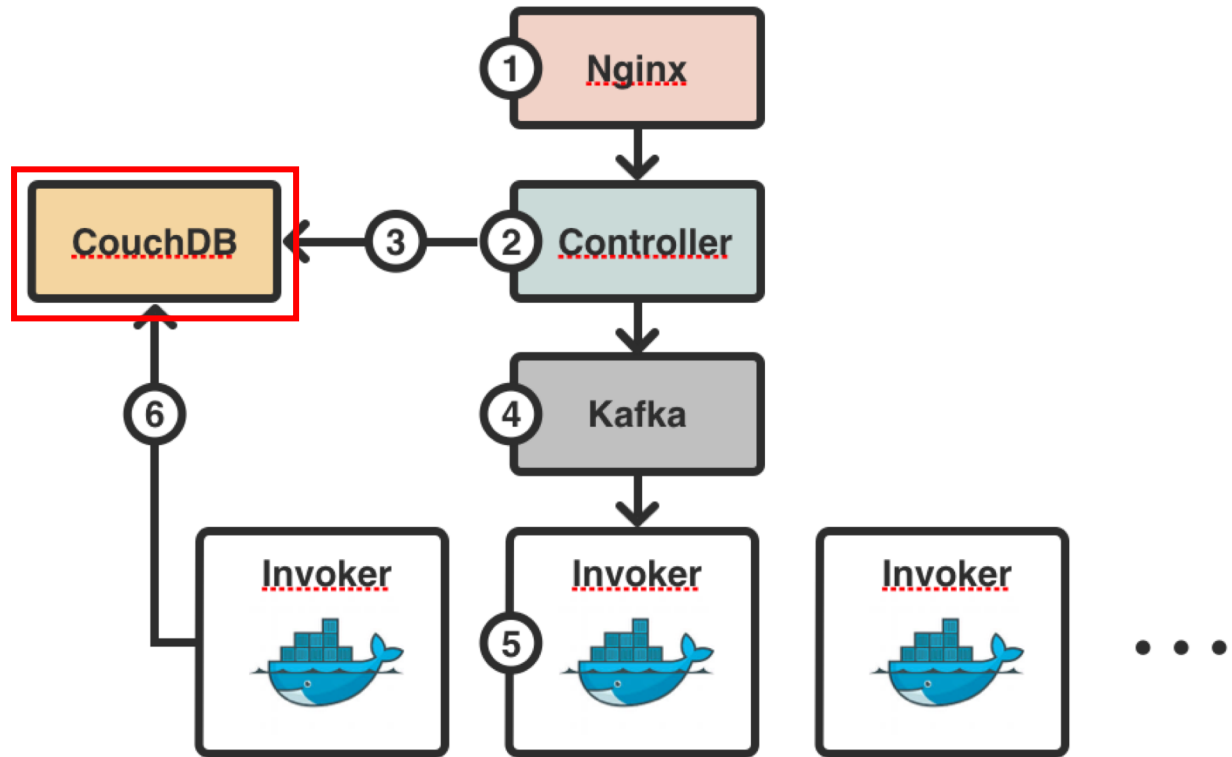


Contribution 포인트

Production 관련

- 성능
- Failover
- 모니터링
- 기능

CouchDB

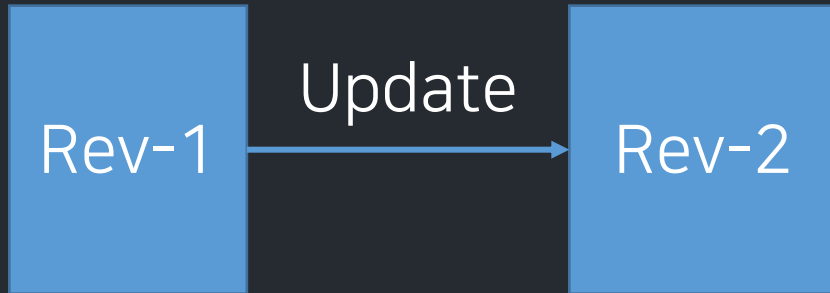


사용자의 함수 저장
실행 결과 저장
인증/권한 정보 저장

CouchDB 이슈

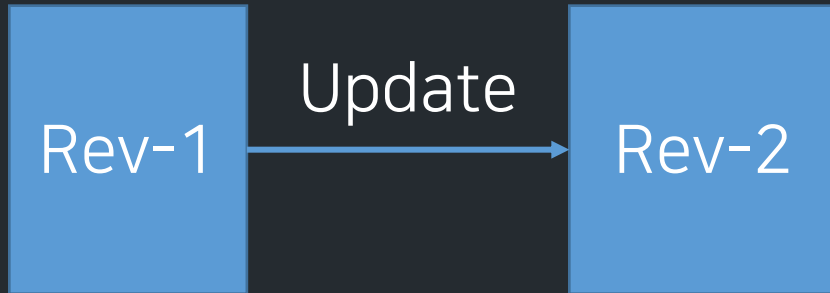
- 데이터 삭제가 되지 않음
- 잦은 Crash
 - High loads에서 Crash
 - Indexing으로 인한 Crash
- ~~불친절한 커미터~~

CouchDB의 삭제 = 업데이트

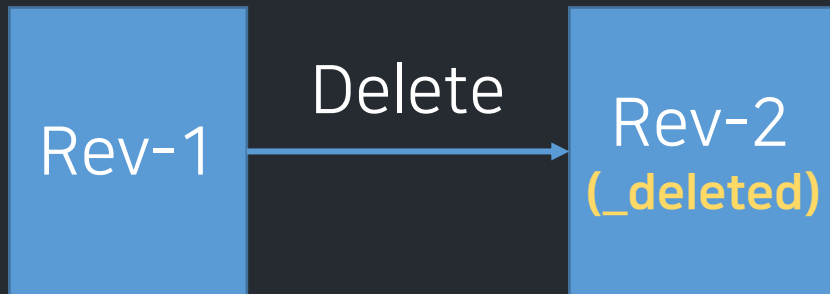


여러 버전의 Rev을 유지하고 있음
Rev을 통해 여러 노드간의 Conflict를 해결

CouchDB의 삭제 = 업데이트



여러 버전의 Rev을 유지하고 있음
Rev을 통해 여러 노드간의 Conflict를 해결



문서 내용은 삭제되지만
Tombstone은 지워지지 않음

CouchDB의 삭제 = 업데이트

```
root@bf83420db0ec:/opt/couchdb# du -h --max-depth 1
64K   ./bin
5.8M  ./erts-6.2
40K   ./etc
19M   ./lib
244K  ./releases
3.2M  ./share
0     ./var
297M  ./data
325M  .
```

초기 상태

CouchDB의 삭제 = 업데이트

```
root@bf83420db0ec:/opt/couchdb# du -h --max-depth 1
64K   ./bin
5.8M  ./erts-6.2
40K   ./etc
19M   ./lib
244K  ./releases
3.2M  ./share
0     ./var
297M  ./data
325M  .
```

초기 상태

```
root@bf83420db0ec:/opt/couchdb# du -h --max-depth 1
64K   ./bin
5.8M  ./erts-6.2
40K   ./etc
19M   ./lib
244K  ./releases
3.2M  ./share
0     ./var
9.8G  ./data
9.8G  .
```

데이터 삽입

CouchDB의 삭제 = 업데이트

```
root@bf83420db0ec:/opt/couchdb# du -h --max-depth 1
64K  ./bin
5.8M ./erts-6.2
40K  ./etc
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244K ./releases
3.2M ./share
0    ./var
297M ./data
325M .
```

초기 상태

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40K  ./etc
19M  ./lib
244K ./releases
3.2M ./share
0    ./var
9.8G ./data
9.8G .
```

데이터 삽입

```
root@bf83420db0ec:/opt/couchdb# du -h --max-depth 1
64K  ./bin
5.8M ./erts-6.2
40K  ./etc
19M  ./lib
244K ./releases
3.2M ./share
0    ./var
13G  ./data
13G  .
```

데이터 삭제

CouchDB의 삭제 = 업데이트

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root@bf83420db0ec:/opt/couchdb# du -h --max-depth 1
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244K ./releases
3.2M ./share
0    ./var
297M ./data
325M .
```

초기 상태

```
root@bf83420db0ec:/opt/couchdb# du -h --max-depth 1
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5.8M ./erts-6.2
40K  ./etc
19M  ./lib
244K ./releases
3.2M ./share
0    ./var
9.8G ./data
9.8G .
```

데이터 삽입

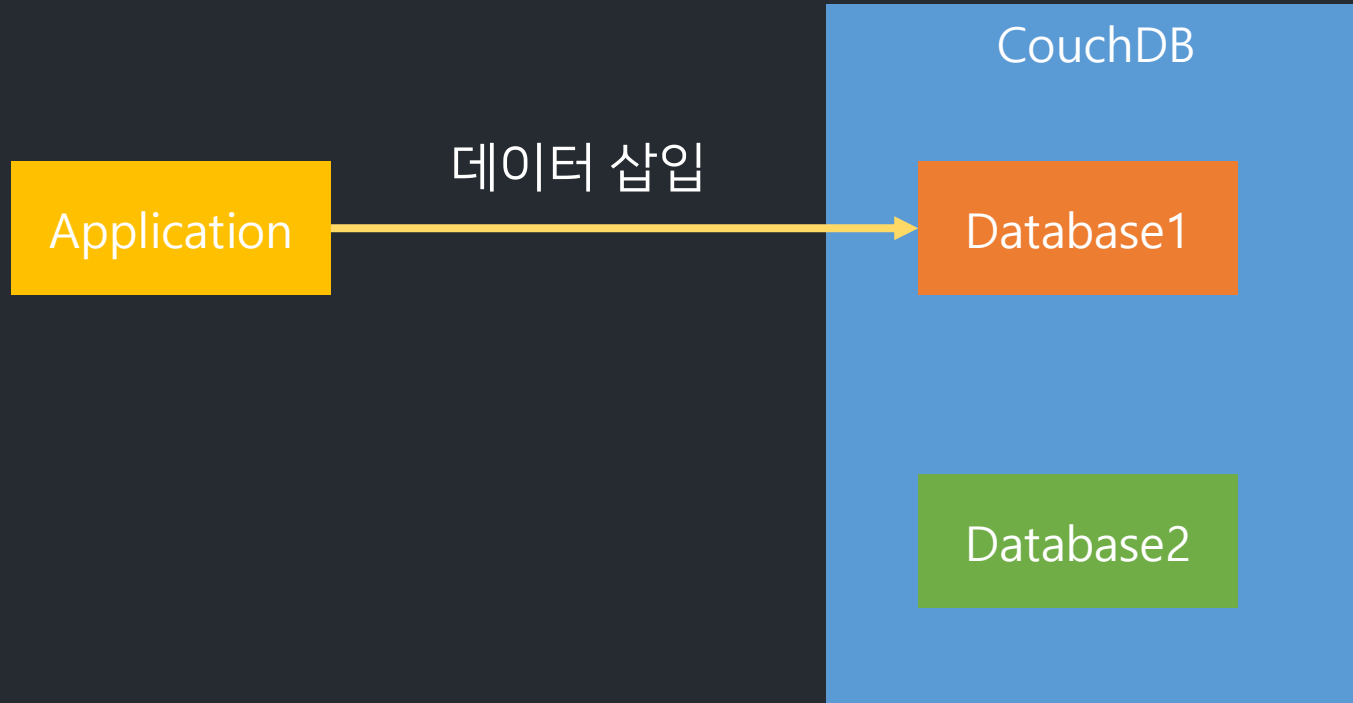
```
root@bf83420db0ec:/opt/couchdb# du -h --max-depth 1
64K  ./bin
5.8M ./erts-6.2
40K  ./etc
19M  ./lib
244K ./releases
3.2M ./share
0    ./var
13G  ./data
13G  .
```

데이터 삭제

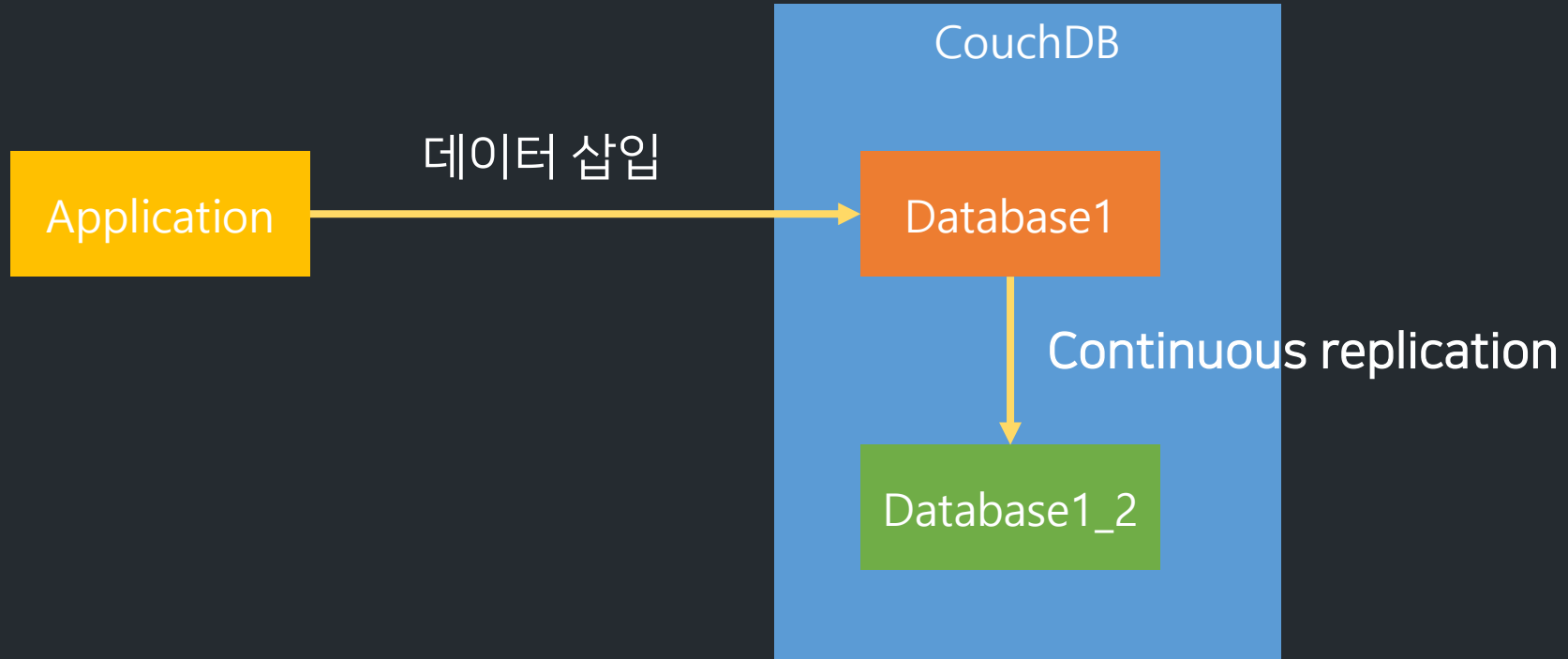
```
root@bf83420db0ec:/opt/couchdb# du -h --max-depth 1
64K  ./bin
5.8M ./erts-6.2
40K  ./etc
19M  ./lib
244K ./releases
3.2M ./share
0    ./var
3.3G ./data
3.4G .
```

Compaction 수행

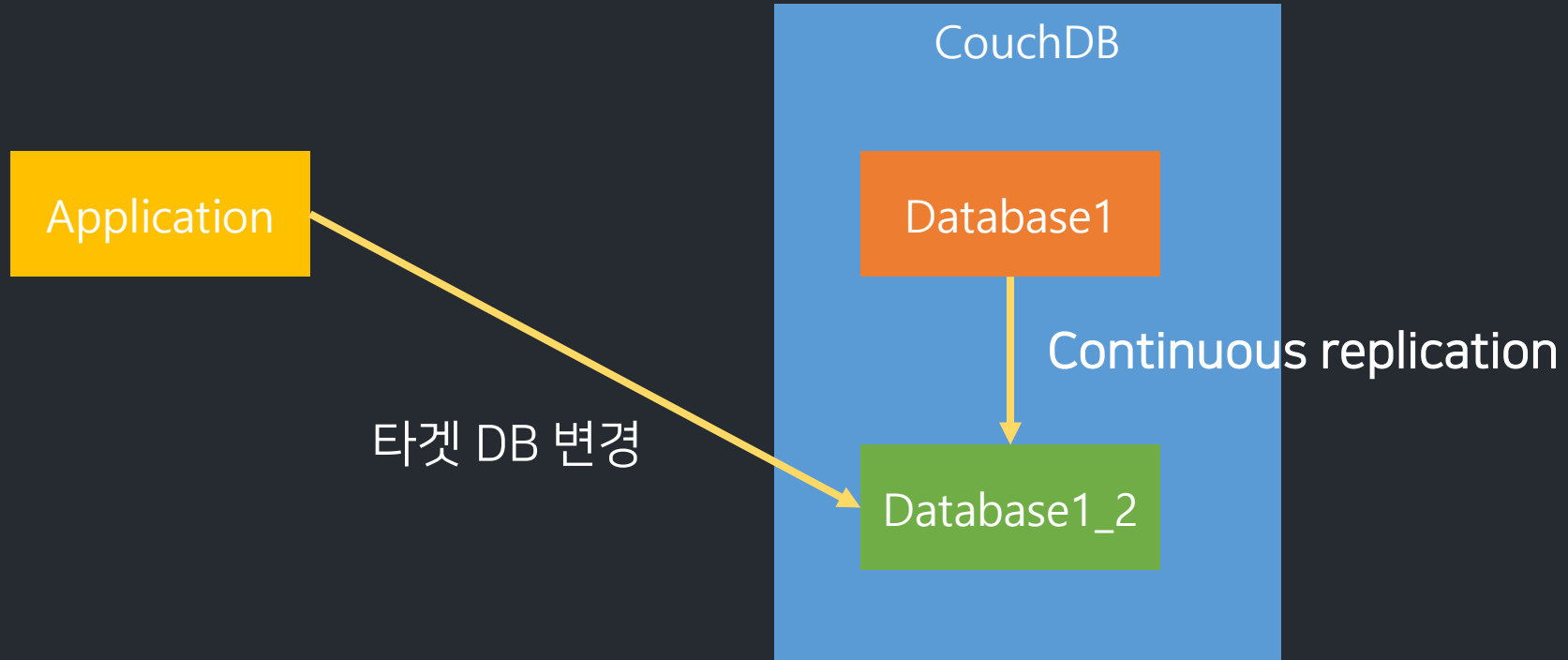
CouchDB의 삭제 = 업데이트



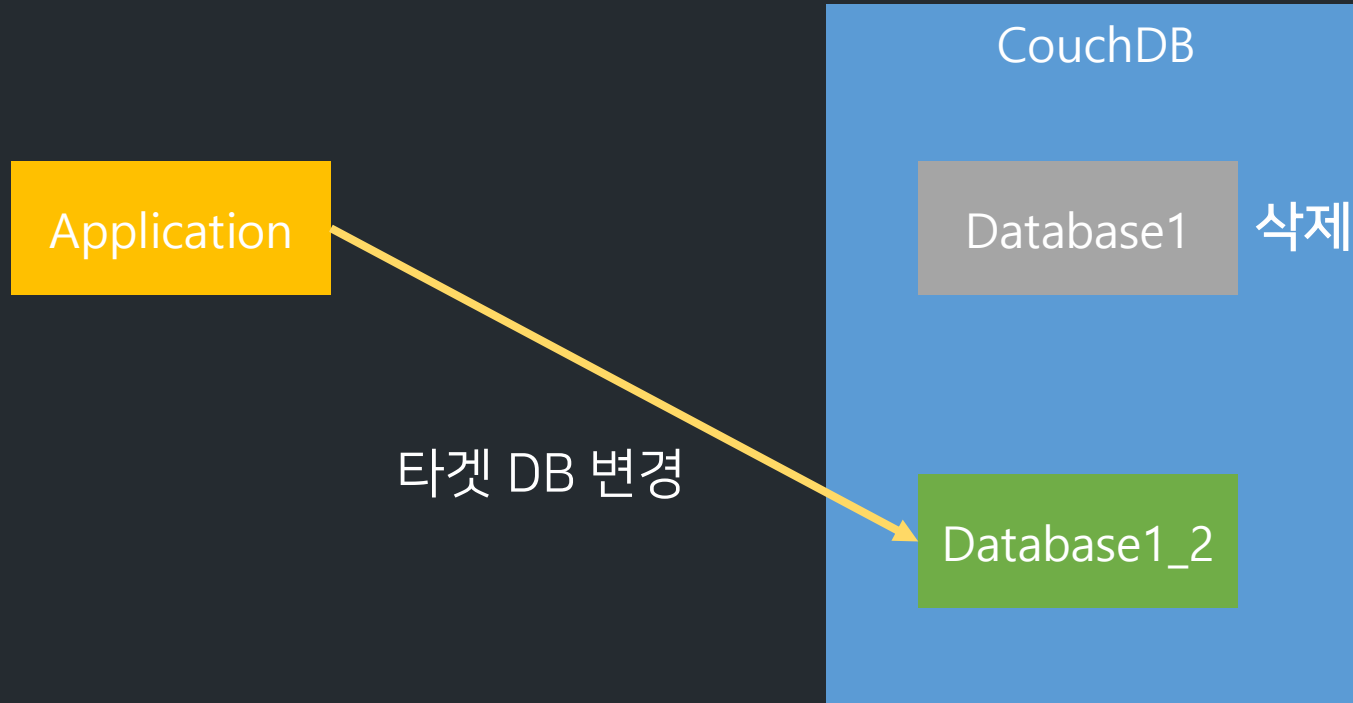
CouchDB의 삭제 = 업데이트



CouchDB의 삭제 = 업데이트



CouchDB의 삭제 = 업데이트



CouchDB 성능 이슈

Investigate CouchDB performance degradation #212

Closed

dominic-kim opened this issue on 12 Dec 2017 · 15 comments



dominic-kim commented on 12 Dec 2017

+ 😊 ...

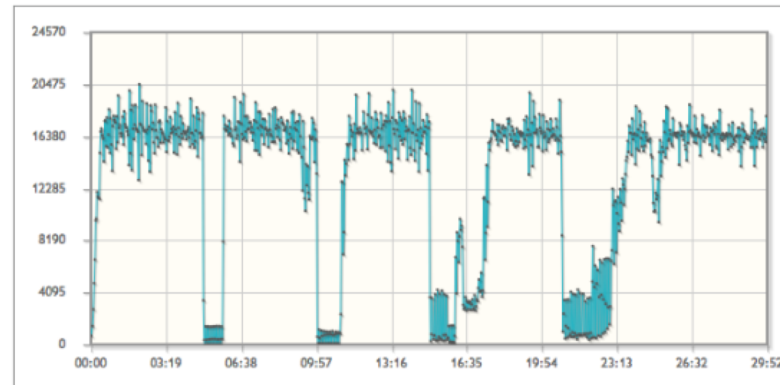
There is periodic performance degradation in CouchDB.
This issue is to investigate the problem and resolve it.

요약

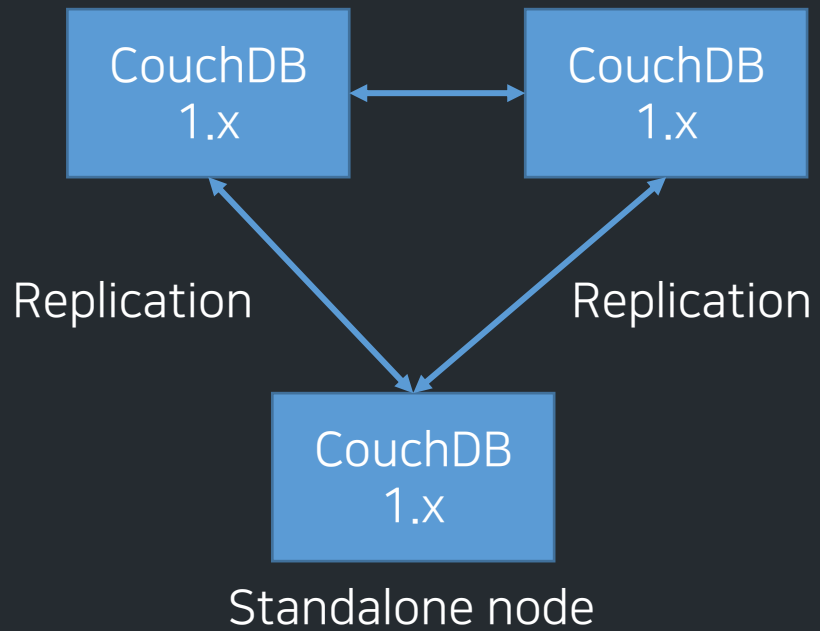
TPS 그래프

[상세 보고서](#)

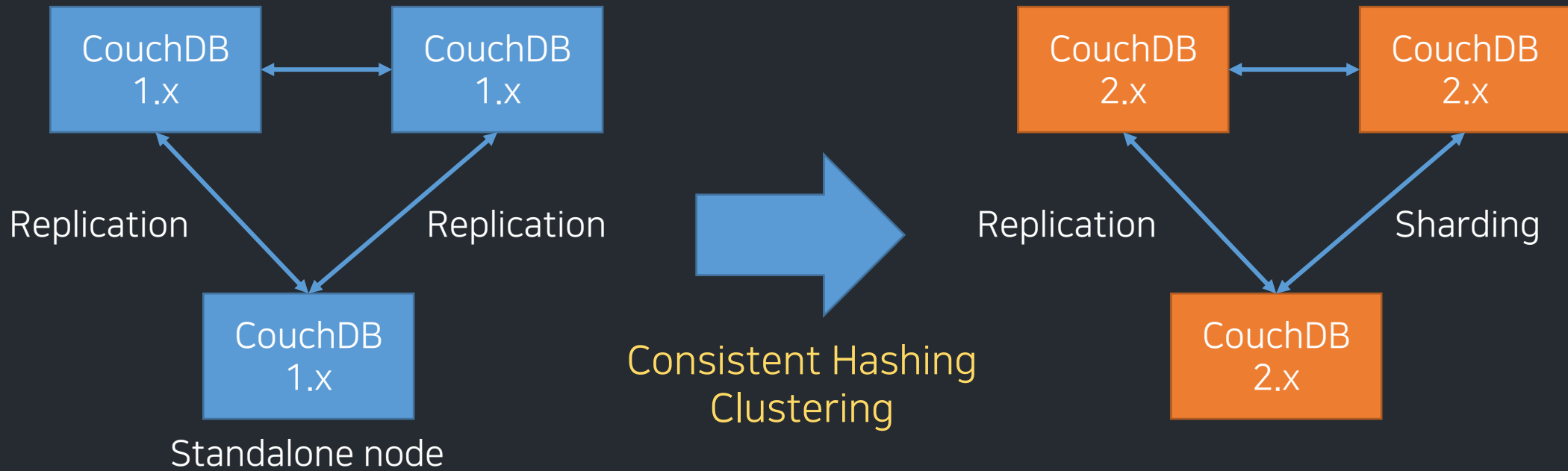
총 Vuser	15,000
TPS	12,920.8
최고 TPS	20,470
평균 테스트시간	682.7 MS
총 실행 테스트	24,972,515
성공한 테스트	23,187,700
에러	1,784,815
동작 시간	00:30:01



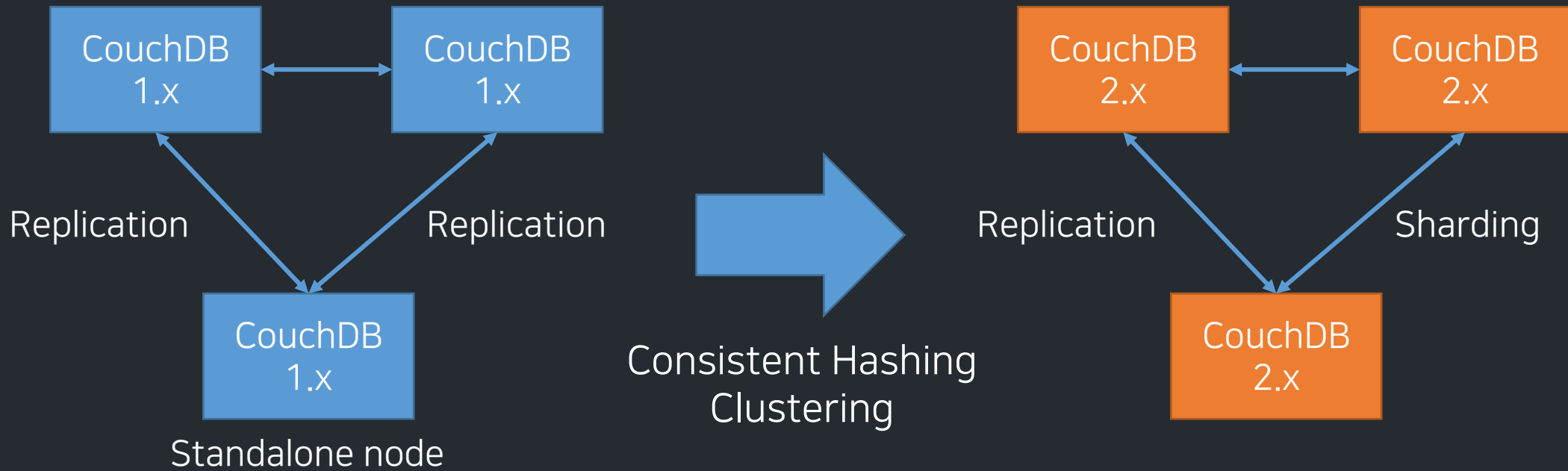
CouchDB 1.x -> CouchDB 2.x



CouchDB 1.x -> CouchDB 2.x

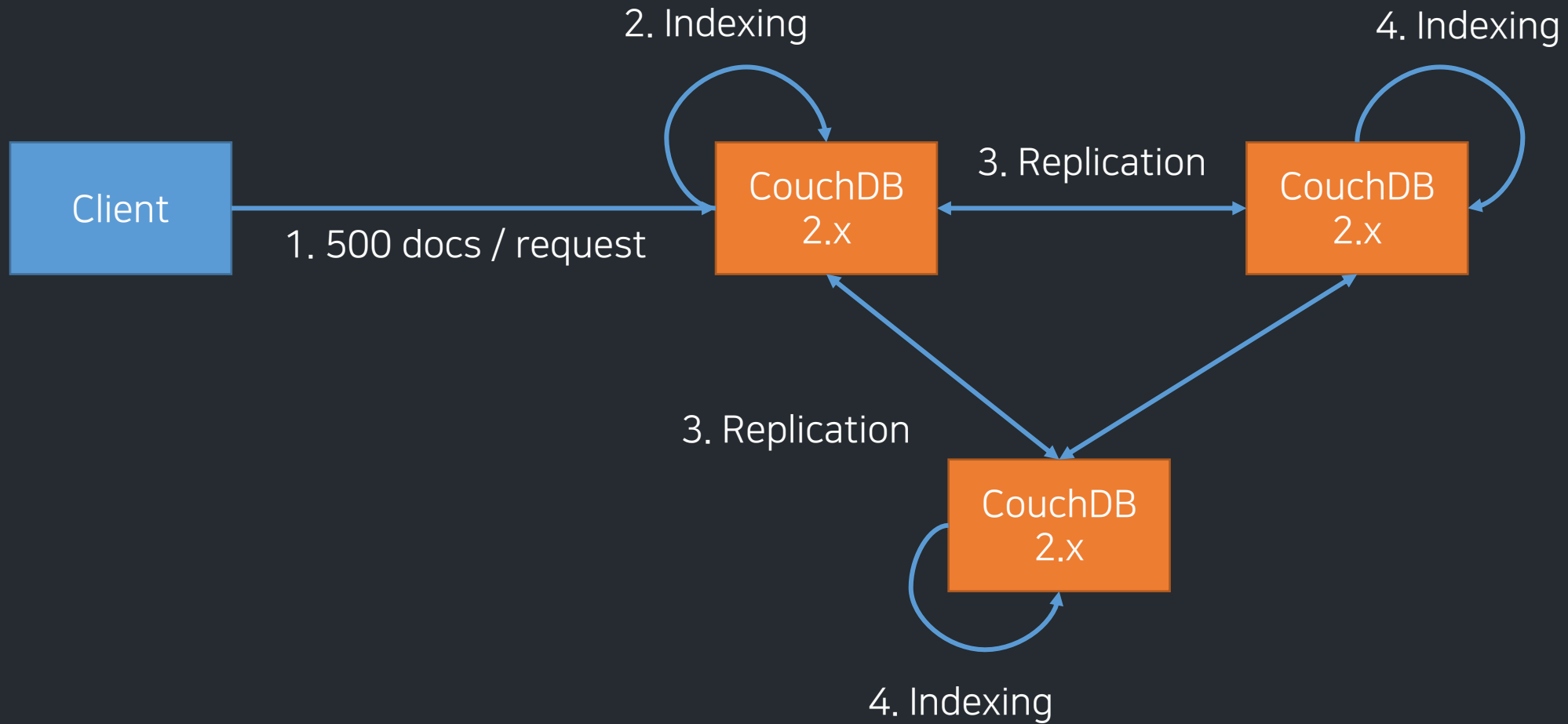


CouchDB 1.x -> CouchDB 2.x

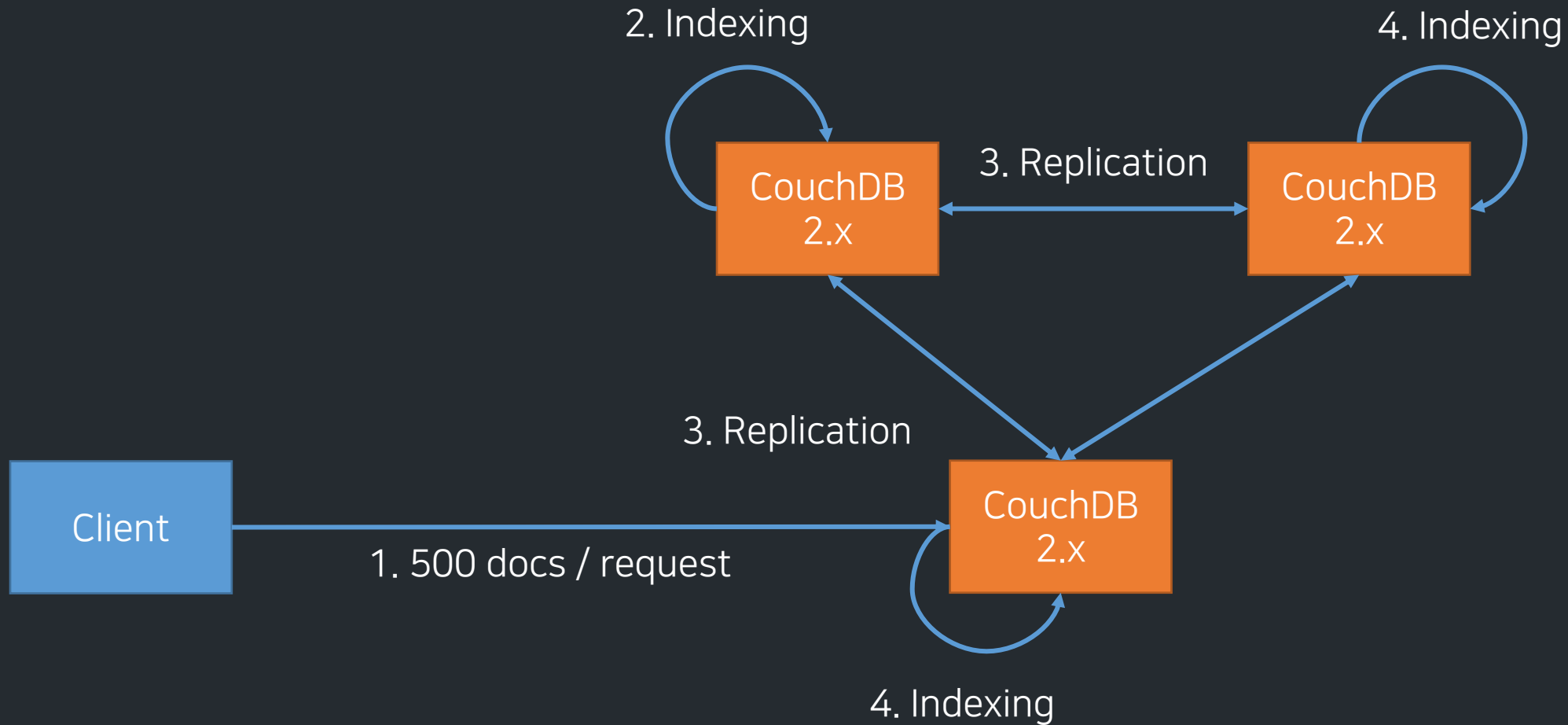


Cloudbant(IBM)사에서 집중적으로 Contribution

Bulk insertion issue



Bulk insertion issue



Bulk insertion issue

couchdb log:

```
/80000000-9fffffff/test.1508232485 couchdb@dev-lambda-exp-db002.ncl {pending_changes,92312}  
/20000000-3fffffff/test.1508232485 couchdb@dev-lambda-exp-db003.ncl {pending_changes,91131}
```

메모리 상에 적용되지 않은 변경들이 쌓이기 시작

CouchDB 성능 이슈

Investigate CouchDB performance degradation #212

Closed dominic-kim opened this issue on 12 Dec 2017 · 15 comments



dominic-kim commented on 12 Dec 2017



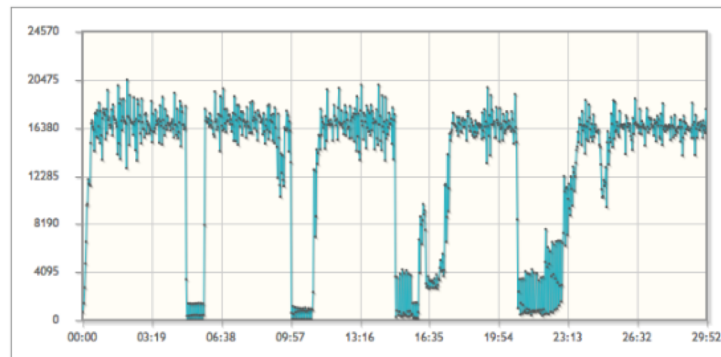
There is periodic performance degradation in CouchDB.
This issue is to investigate the problem and resolve it.

요약

총 Vuser	15,000
TPS	12,920.8
최고 TPS	20,470
평균 테스트시간	682.7 <small>MS</small>
총 실행 테스트	24,972,515
성공한 테스트	23,187,700
에러	1,784,815
동작 시간	00:30:01

TPS 그래프

[상세 보고서](#)



1. Pending_changes가 메모리를 소진

CouchDB 성능 이슈

Investigate CouchDB performance degradation #212

Closed dominic-kim opened this issue on 12 Dec 2017 · 15 comments



dominic-kim commented on 12 Dec 2017



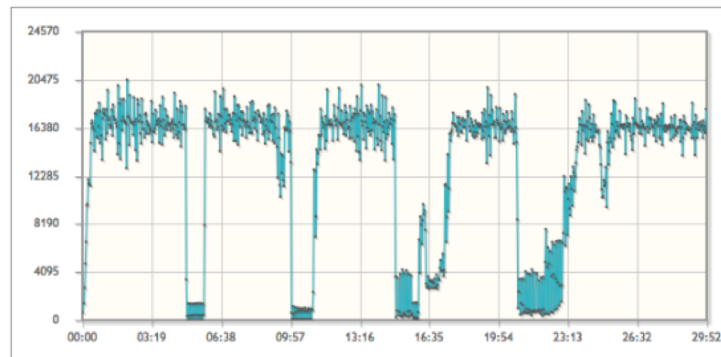
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요약

TPS 그래프

상세 보고서

총 Vuser	15,000
TPS	12,920.8
최고 TPS	20,470
평균 테스트시간	682.7 MS
총 실행 테스트	24,972,515
성공한 테스트	23,187,700
에러	1,784,815
동작 시간	00:30:01



1. Pending_changes가 메모리를 소진
2. 메모리가 100% 달하면 CouchDB 노드가 Crash되고 재시작됨

CouchDB 성능 이슈

Investigate CouchDB performance degradation #212

Closed dominic-kim opened this issue on 12 Dec 2017 · 15 comments



dominic-kim commented on 12 Dec 2017



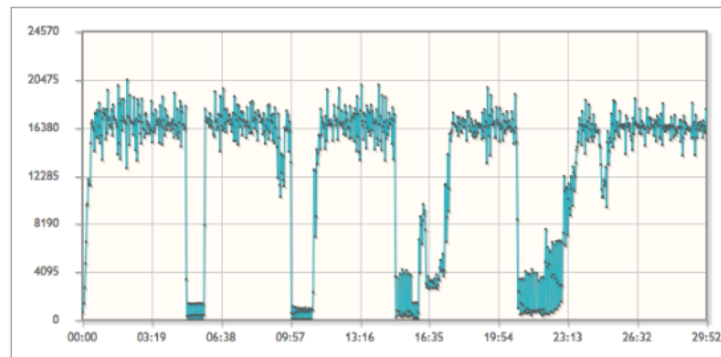
There is periodic performance degradation in CouchDB.
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요약

TPS 그래프

상세 보고서

총 Vuser	15,000
TPS	12,920.8
최고 TPS	20,470
평균 테스트시간	682.7 MS
총 실행 테스트	24,972,515
성공한 테스트	23,187,700
에러	1,784,815
동작 시간	00:30:01



40 Cores CPU

128 GB Memory

2TB SSD

CouchDB 성능 이슈

Investigate CouchDB performance degradation #212

Closed dominic-kim opened this issue on 12 Dec 2017 · 15 comments



dominic-kim commented on 12 Dec 2017



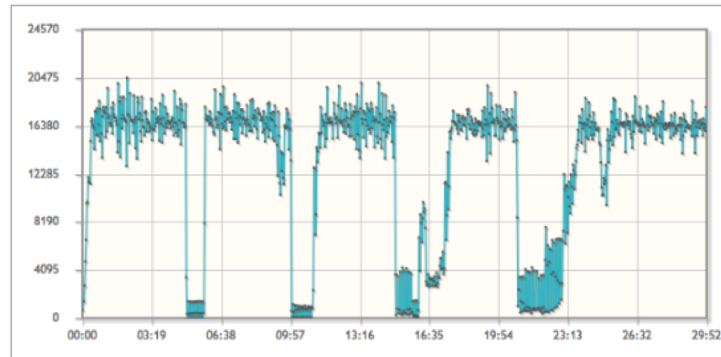
There is periodic performance degradation in CouchDB.
This issue is to investigate the problem and resolve it.

요약

TPS 그래프

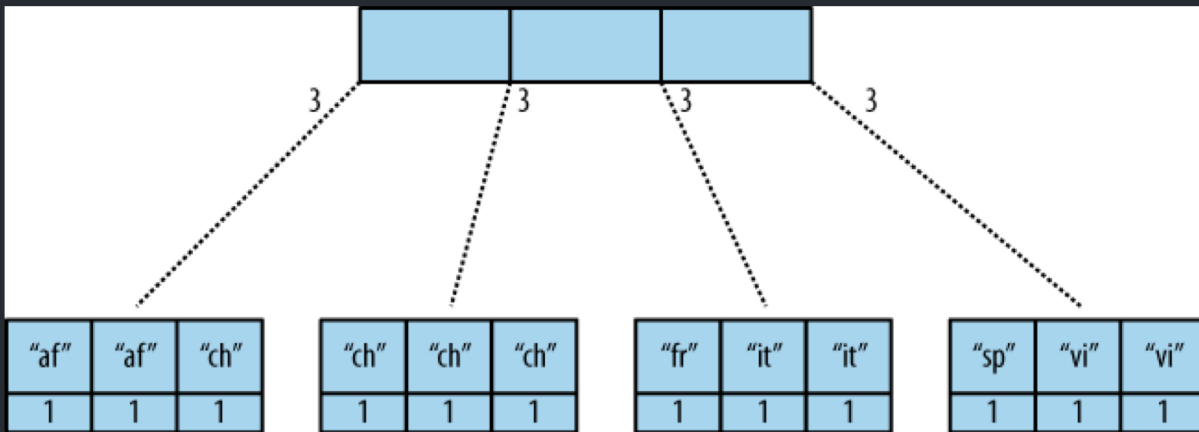
상세 보고서

총 Vuser	15,000
TPS	12,920.8
최고 TPS	20,470
평균 테스트시간	682.7 MS
총 실행 테스트	24,972,515
성공한 테스트	23,187,700
에러	1,784,815
동작 시간	00:30:01



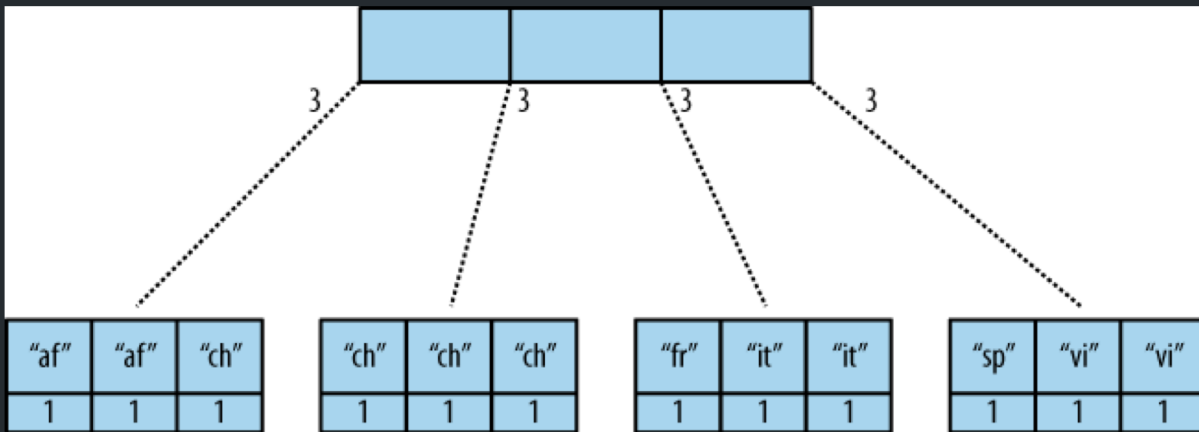
처리되지 못한 데이터의 유실
불안정한 클러스터
불안정한 TPS

CouchDB Indexing 이슈



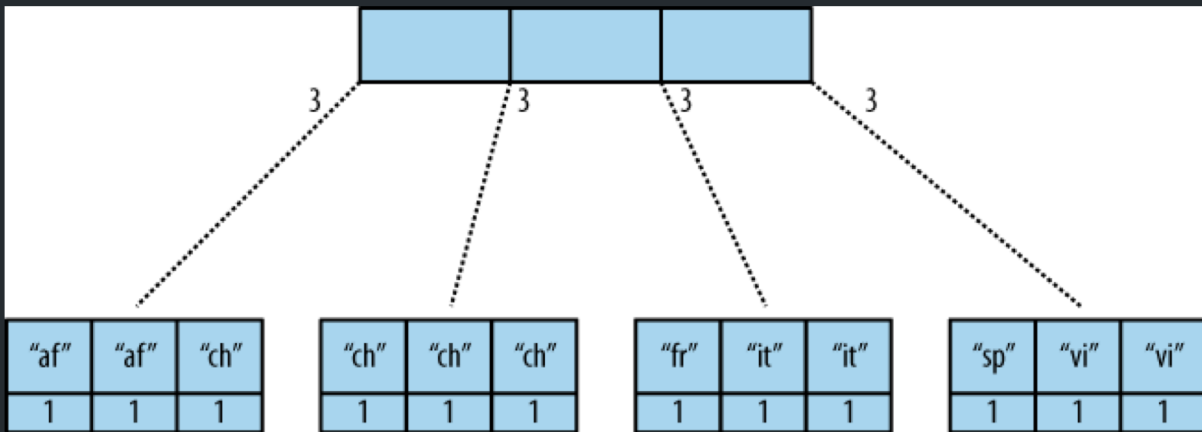
View로 특정 데이터들만 필터링
B-tree를 만들어둠 (Indexing)

CouchDB Indexing 이슈



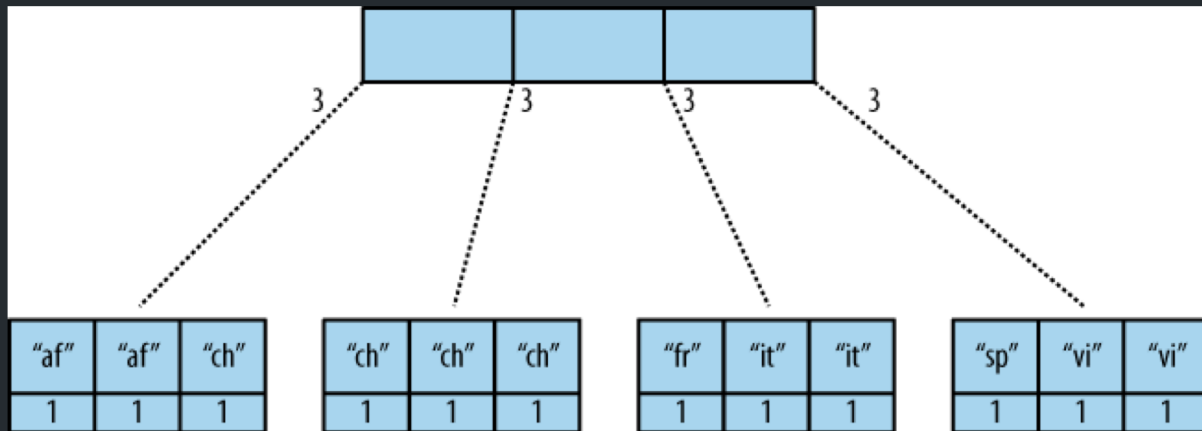
View를 read할 때 갱신이 이루어짐

CouchDB Indexing 이슈



View에 접근이 오랫동안 이루어지지 않으면, 한번에 모든 데이터를 indexing

CouchDB Indexing 이슈



10GB 수준의 데이터를 indexing하다
Crash 발생

CouchDB Indexing 이슈

주기적인 couchdb 인덱싱 수행 #310

Closed oh-seonghyun opened this issue on 7 Mar 2018 · 12 comments



oh-seonghyun commented on 7 Mar 2018 · edited ▾



couchdb는 read query를 요청할때만 indexing을 수행하는 특성이 있습니다.

오랜 기간 데이터가 누적된 후 처음 read하는경우 timeout이 발생할수 있으므로 이를 방지하기 위해 UI단에서 schedule job으로 주기적으로 인덱싱을 수행하도록 해야합니다.

해당 Document

- Activations

주기적인 view read query 수행

커뮤니티에 리포팅 했으나..

[Question] CouchDB crashed during benchmark #1071

Closed style95 opened this issue on 18 Dec 2017 · 5 comments

style95 commented on 18 Dec 2017

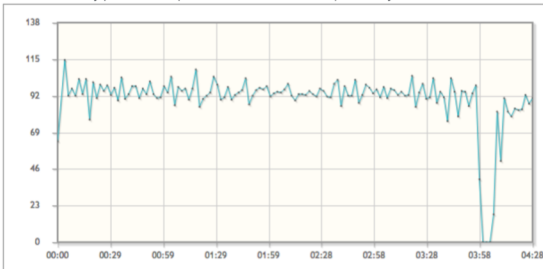
CouchDB crashed during benchmarking.

I deployed 3 nodes.

- node1: 10.113.130.91
- node2: 10.113.130.92
- node3: 10.113.130.93

I sent 500 docs using bulk-insert API.

It showed steady performance, and after about 4 minutes, suddenly one of nodes crashed.



I got following logs on the nodes.

node1

```
[error] 2017-12-18T03:13:09.183711Z couchdb@10.113.130.91 emulator ----- Error in pro
[error] 2017-12-18T03:13:09.183768Z couchdb@10.113.130.91 emulator ----- Error in pro
[warning] 2017-12-18T03:13:09.183766Z couchdb@10.113.130.91 <-0.294.0> ----- mem3_sync
[error] 2017-12-18T03:13:09.183804Z couchdb@10.113.130.91 emulator ----- Error in pro
[warning] 2017-12-18T03:13:09.183981Z couchdb@10.113.130.91 <-0.294.0> ----- mem3_sync
[warning] 2017-12-18T03:13:09.184206Z couchdb@10.113.130.91 <-0.294.0> ----- mem3_sync
[error] 2017-12-18T03:13:09.186470Z couchdb@10.113.130.91 emulator ----- Error in pro
[error] 2017-12-18T03:13:09.186529Z couchdb@10.113.130.91 emulator ----- Error in pro
[warning] 2017-12-18T03:13:09.186662Z couchdb@10.113.130.91 <-0.294.0> ----- mem3_sync
[warning] 2017-12-18T03:13:09.186962Z couchdb@10.113.130.91 <-0.294.0> ----- mem3_sync
[error] 2017-12-18T03:13:09.188375Z couchdb@10.113.130.91 emulator ----- Error in pro
[error] 2017-12-18T03:13:09.188415Z couchdb@10.113.130.91 emulator ----- Error in pro
[warning] 2017-12-18T03:13:09.188476Z couchdb@10.113.130.91 <-0.294.0> ----- mem3_sync
[warning] 2017-12-18T03:13:09.188649Z couchdb@10.113.130.91 <-0.294.0> ----- mem3_sync
```



wohali commented on 17 Jan 2018

Member + 👤 ...

So in the first paste, CouchDB is saying that an external OS process (couchjs) terminated with exit code 137.

137=128+9, which means some other process has sent you a signal 9, which is SIGKILL. Presumably the kernel oomkiller killed your couchjs process.

My guess? It's your alteration of +A and os_process_limit.

Do not modify +A to such a large number. Our default of +A 16 is correct for most machines, only needing to be *lowered* for smaller machines. (The default Erlang value is 10.) Read more about it here: <https://stackoverflow.com/questions/13479142/when-is-it-appropriate-to-increase-the-async-thread-size-from-zero#13497717>

The os_process_limit value defines how many couchjs processes can run at once. Typically you want this to be # of cores - 1 at most (leaving a core for Erlang and I/O handling), but sometimes less, if you are running more than just CouchDB on a machine (say, the clouseau/dreyfus full-text indexing functionality.)



wohali closed this on 17 Jan 2018

<https://github.com/apache/couchdb/issues/1071>

커뮤니티에 리포팅 했으나..

CouchDB 3-node cluster (Windows) - multiple erlang errors #1073 New issue

Closed harald-d opened this issue on 18 Dec 2017 · 18 comments

harald-d commented on 18 Dec 2017 • edited

Im receiving multiple erlang errors in my CouchDB 2.1.1 cluster (3 nodes), see errors and node configuration below:

3 nodes (10.0.7.4 - 10.0.7.6), Azure application gateway is used as load balancer.
Why do these errors appear? system resources of the nodes are far from overload.

I would be thankful for any help - thanks in advance.

```
rex_i_server: from: couchdb@10.0.7.4(<0.14976.568>) mfa: fabric_rpc:changes/3 exit:timeou
rex_i_server: from: couchdb@10.0.7.6(<13540.24597.655>) mfa: fabric_rpc:all_docs/3 exit:t
rex_i_server: from: couchdb@10.0.7.6(<13540.5991.623>) mfa: fabric_rpc:all_docs/3 exit:ti
req_err(3206982071) unknown_error : normal [<<"mochiweb_request:rcv/3 L180">>,<<"mochiw
** System running to use fully qualified hostnames ** ** Hostname localhost is illegal *
COMPACTION-ERRORS
Supervisor couch_secondary_services had child compaction_daemon started with couch_compa
CRASH REPORT Process couch_compaction_daemon (<0.18509.478>) with 0 neighbors exited wi
gen_server couch_compaction_daemon terminated with reason: {compaction_loop_died,{timeou
```

Assignees
No one assigned

Labels
docker
windows

Projects
None yet

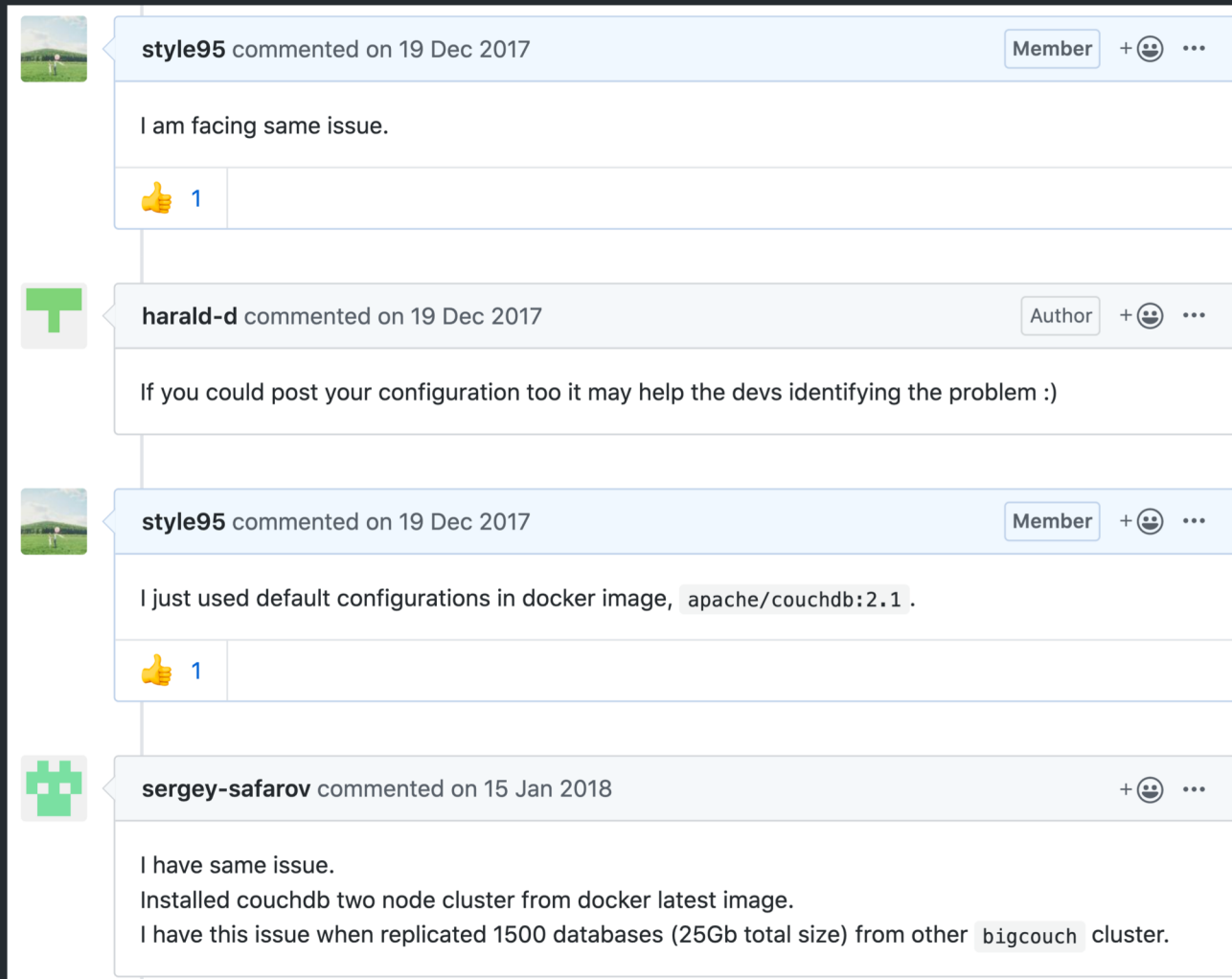
Milestone
No milestone

Notifications [Customize](#)
Unsubscribe
You're receiving notifications because you commented.

5 participants

<https://github.com/apache/couchdb/issues/1073>

커뮤니티에 리포팅 했으나..



The screenshot shows a thread of four comments on a GitHub issue. The comments are from users style95, harald-d, style95, and sergey-safarov. The first comment from style95 (19 Dec 2017) says "I am facing same issue." and has 1 thumbs up. The second comment from harald-d (19 Dec 2017) asks for configuration. The third comment from style95 (19 Dec 2017) says they used default configurations in a docker image. The fourth comment from sergey-safarov (15 Jan 2018) says they have the same issue with a two-node cluster.

style95 commented on 19 Dec 2017 Member + 😊 ...

I am facing same issue.

👍 1

harald-d commented on 19 Dec 2017 Author + 😊 ...

If you could post your configuration too it may help the devs identifying the problem :)

style95 commented on 19 Dec 2017 Member + 😊 ...

I just used default configurations in docker image, `apache/couchdb:2.1` .

👍 1

sergey-safarov commented on 15 Jan 2018 + 😊 ...

I have same issue.
Installed couchdb two node cluster from docker latest image.
I have this issue when replicated 1500 databases (25Gb total size) from other `bigcouch` cluster.

커뮤니티에 리포팅 했으나..



wohali commented on 21 Jan 2018

Member + 😊 ...

No, **it's a valid error,** but it doesn't mean that replication completed with errors. It's one that CouchDB recovers from on its own. It is possible something else is wrong with your setup, of course, but that doesn't mean replication failed on its own.

You can determine if the replication completed successfully via the standard API, not our logfile. I encourage use of the `/_replicator` database.

More information is available here:

<http://docs.couchdb.org/en/latest/replication/replicator.html#replication-states>

I'm closing this for now. **If you can show that you are actually having failed replication** or 500 errors via the HTTP API, not just errors in the logfile, then please reopen.



wohali closed this on 21 Jan 2018

<https://github.com/apache/couchdb/issues/1073>

컨트리뷰션 했으나...

Add environment variables for cluster #32

Closed style95 wants to merge 1 commit into apache:master from style95:add-cluster-env

Conversation 6 Commits 1 Checks 0 Files changed 1

style95 commented on 28 Sep 2017 • edited

Overview

This pr is to add environment variables for CouchDB clustering.

Testing recommendations

```
docker run --name couchdb -d -e NUM_NODES=3 -e NUM_SHARDS=8 -e NUM_READ_QUORUM=2 -e NUM_
```

GitHub issue number

none

Related Pull Requests

none

Checklist

- Code is written and works correctly;
- Changes are covered by tests;
- Documentation reflects the changes;


Add environment variables for cluster b4e4f9a

wohali commented on 29 Sep 2017 • edited

This will not be merged.

The intent is that you will mount and persist the files under `/opt/couchdb/etc/local.d/*`. These settings, and anything else that goes in the `*.ini` files, can be overridden that way.


Further, the `w` and `r` parameters are deprecated as of CouchDB 2.x (they only worked in bigcouch) and have no effect anyway.

 wohali closed this on 29 Sep 2017


<https://github.com/apache/couchdb-docker/pull/32>

MongoDB로 변경

ArtifactStore implementation for MongoDB #3570

 [Open](#) jiangpengcheng wants to merge 8 commits into `apache:master` from `jiangpengcheng:add_mongodb_implementation`

Conversation 16 Commits 8 Checks 0 Files changed 31 +2,218 -0

 jiangpengcheng commented on 24 Apr • edited • Contributor + 🗨️ ⋮

This PR provides a MongoDBArtifactStore implementation to enable using MongoDB for storing subjects, whisks and activation in [MongoDB](#)

Description

Some users may want to use other database backends instead of CouchDB to store entities, this PR provides MongoDB as an alternative choice for these users

MongoDB driver

MongoDB provides [official drivers](#) for many languages, in this case, we pick the [mongo-scala-driver](#), this driver provides an idiomatic Scala API that is built on top of the MongoDB Async Java driver.


Design Considerations


Data Model

The data scheme in MongoDB is just like CouchDB except that MongoDB doesn't have a `_rev` field, below is the data of `whisk.system/invokeHealthTestAction0` in CouchDB and MongoDB:

CouchDB	MongoDB
<pre>{ "_id": "whisk.system/invokeHealthTestAction0", "_rev": "68-e72440f911c64ab11441c09e730e5ab8", "name": "invokeHealthTestAction0", "publish": false, "annotations": [], "version": "0.0.1", "updated": 1524476933182, "entityType": "action",</pre>	<pre>{ "_id": "whisk.system/ir", "name": "invokeHealthI", "publish": false, "annotations": [], "version": "0.0.1", "updated": NumberLong(" entityType": "action", "exec": {</pre>


Reviewers

 chetanmeh

 dubee

At least 1 approving review is required to merge this pull request.

Assignees

 dubee

Labels

None yet

Projects

None yet


Milestone

No milestone

Notifications

You're receiving notifications because you're watching this repository.


5 participants





<https://github.com/apache/incubator-openwhisk/pull/3570>

ElasticSearch Activation Store

Elasticsearch Activation Store #3977

 **Open** dubee wants to merge 3 commits into `apache:master` from `dubee:elasticsearch-activation-store`

Conversation **10** Commits **3** Checks **0** Files changed **6** +1,222 -2 

 dubee commented 12 days ago • edited ▾ Member + 😊 ...

Description

Implementation for an Elasticsearch with Artifact activation store.

Related issue and scope

I opened an issue to propose and discuss this change (#????)

My changes affect the following components

- API
- Controller
- Message Bus (e.g., Kafka)
- Loadbalancer
- Invoker
- Intrinsic actions (e.g., sequences, conductors)
- Data stores (e.g., CouchDB)
- Tests
- Deployment
- CLI
- General tooling
- Documentation

Types of changes

Reviewers

No reviews

Assignees

No one assigned

Labels

wip


Projects

None yet

Milestone


No milestone

Notifications

 **Unsubscribe**

You're receiving notifications because you were mentioned.

3 participants



<https://github.com/apache/incubator-openwhisk/pull/3977>

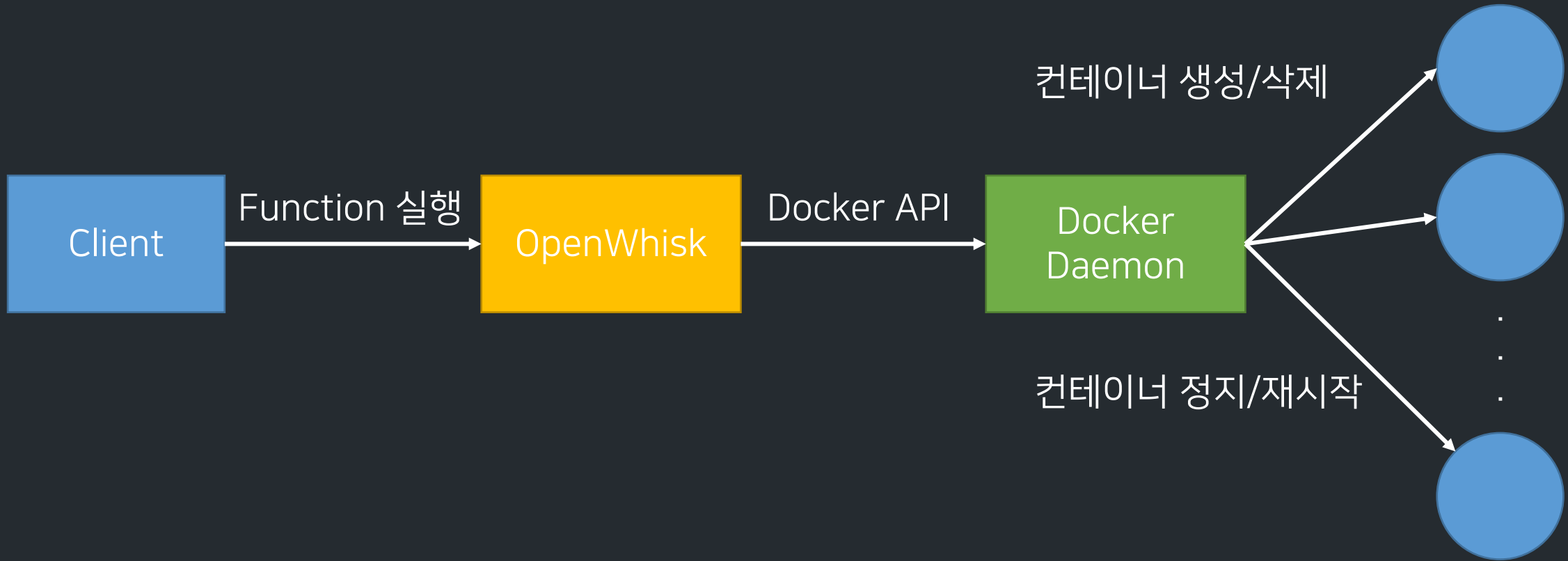
ElasticSearch Activation Store

Data Node (Hot) / 2 Node / Memory 8GB, SSD 192GB							
Doc Count	Query Id	Query Duration			Docs count	Storage size	Primary storage size
		First	Second	Third			
1006100	q1	1 ms	0 ms	0 ms	1006100	724.9mb	361.8mb
	q2	13 ms	11 ms	1 ms	10108600	8.4gb	4.2gb
	q3	5 ms	6 ms	8 ms	52365100	37.7gb	19.1gb
10108600	q1	3 ms	2 ms	2 ms	118840100	81.5gb	41.5gb
	q2	103 ms	102 ms	0 ms			
	q3	58 ms	21 ms	11 ms			
52365100	q1	19 ms	6 ms	4 ms			
	q2	387 ms	307 ms	0 ms			
	q3	75 ms	43 ms	24 ms			
118840100	q1	63 ms	16 ms	7 ms			
	q2	794 ms	727 ms	0 ms			
	q3	184 ms	31 ms	26 ms			

q1 : teacher subject가 실행한 액션 실행시간의 stats를 반환
q2 : groupBy subject의 count 반환 (전체 네임스페이스별 실행 횟수)
q3 : 한시간(1h) interval로 subject별 액션 실행 횟수 반환

Docker daemon 성능 이슈

Docker 데몬의 성능 이슈



Docker 데몬의 성능 이슈

실행 시간	결과
2018. 09. 02. 12:46:40 (3ms)	success
2018. 09. 02. 12:46:39 (2ms)	success
2018. 09. 02. 12:46:38 (3ms)	success
2018. 09. 02. 12:46:37 (2ms)	success

액션 실행 결과

1.5 user

TPS: 6.3

```
avg: 7874 ms
avg: 7878 ms
avg: 7890 ms
avg: 7896 ms
avg: 7906 ms
```

total avg 7888 ms

```
the number of process: 5
time per 10 action: 7888 ms
time per 1 action: 789 ms
action per 1s(TPS): (1000/789) * 5 = 6.3
```

Docker 생성/삭제 API 성능

1.5 user

TPS: 38.1

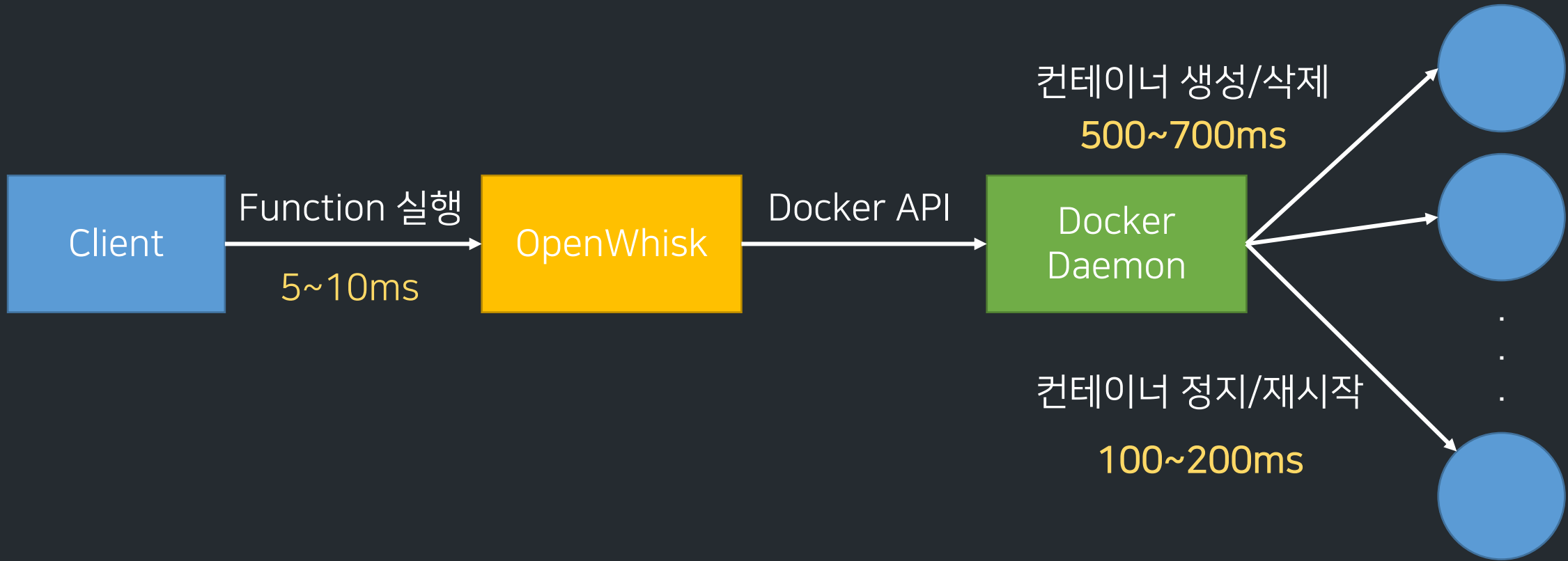
```
node2 avg: 1312 ms
node1 avg: 1312 ms
node4 avg: 1312 ms
node3 avg: 1313 ms
node5 avg: 1313 ms
```

total avg: 1312 ms

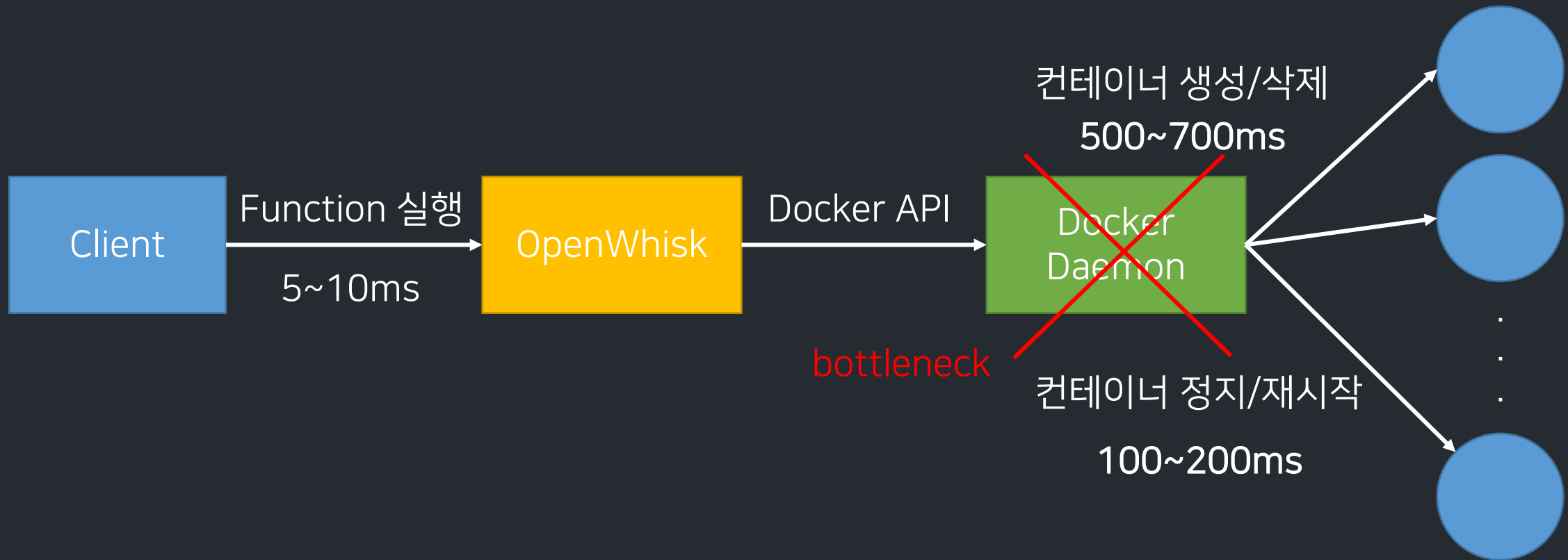
```
the number of node: 5
time per 10 action: 1312 ms
time per 1 action: 131 ms
action per 1s(TPS): (1000/131) * 5 = 38.1
```

Docker 정지/재개 API 성능

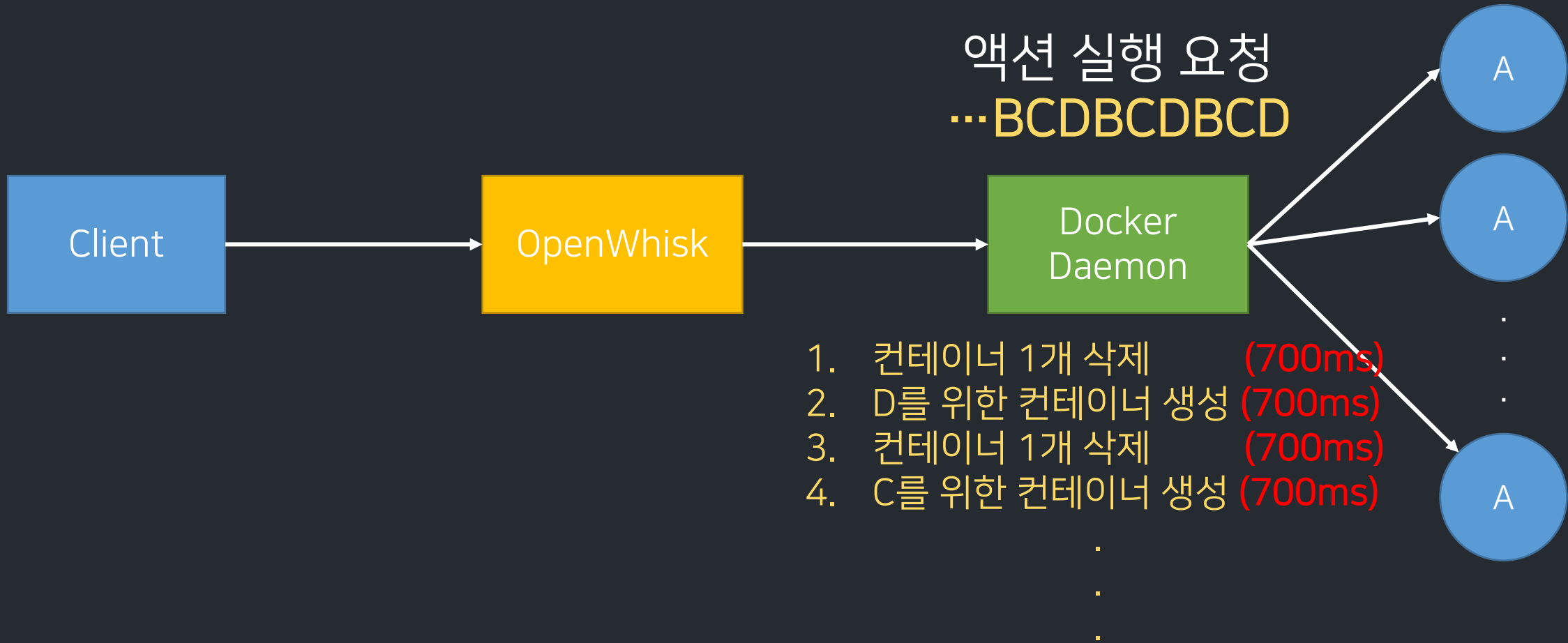
Docker 데몬의 성능 이슈



Docker 데몬의 성능 이슈



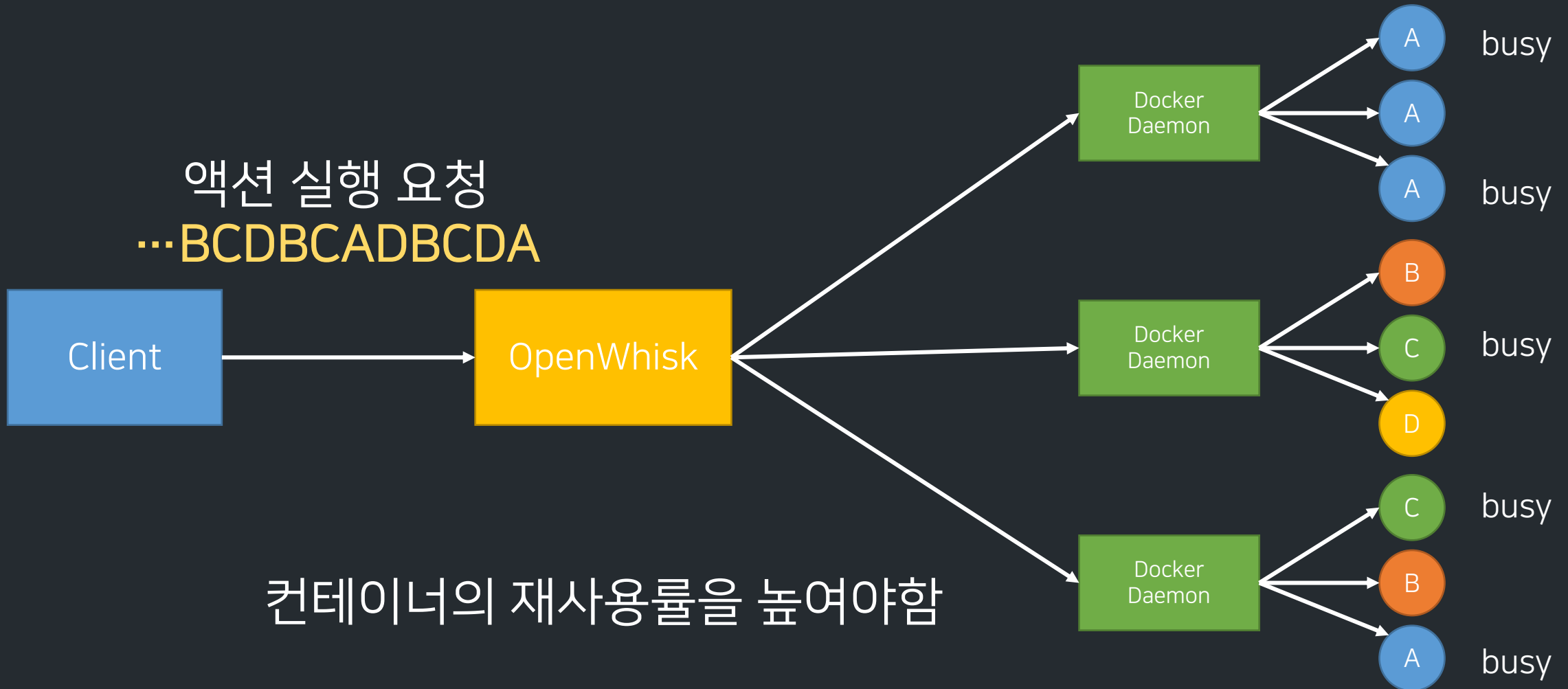
Docker 데몬의 성능 이슈



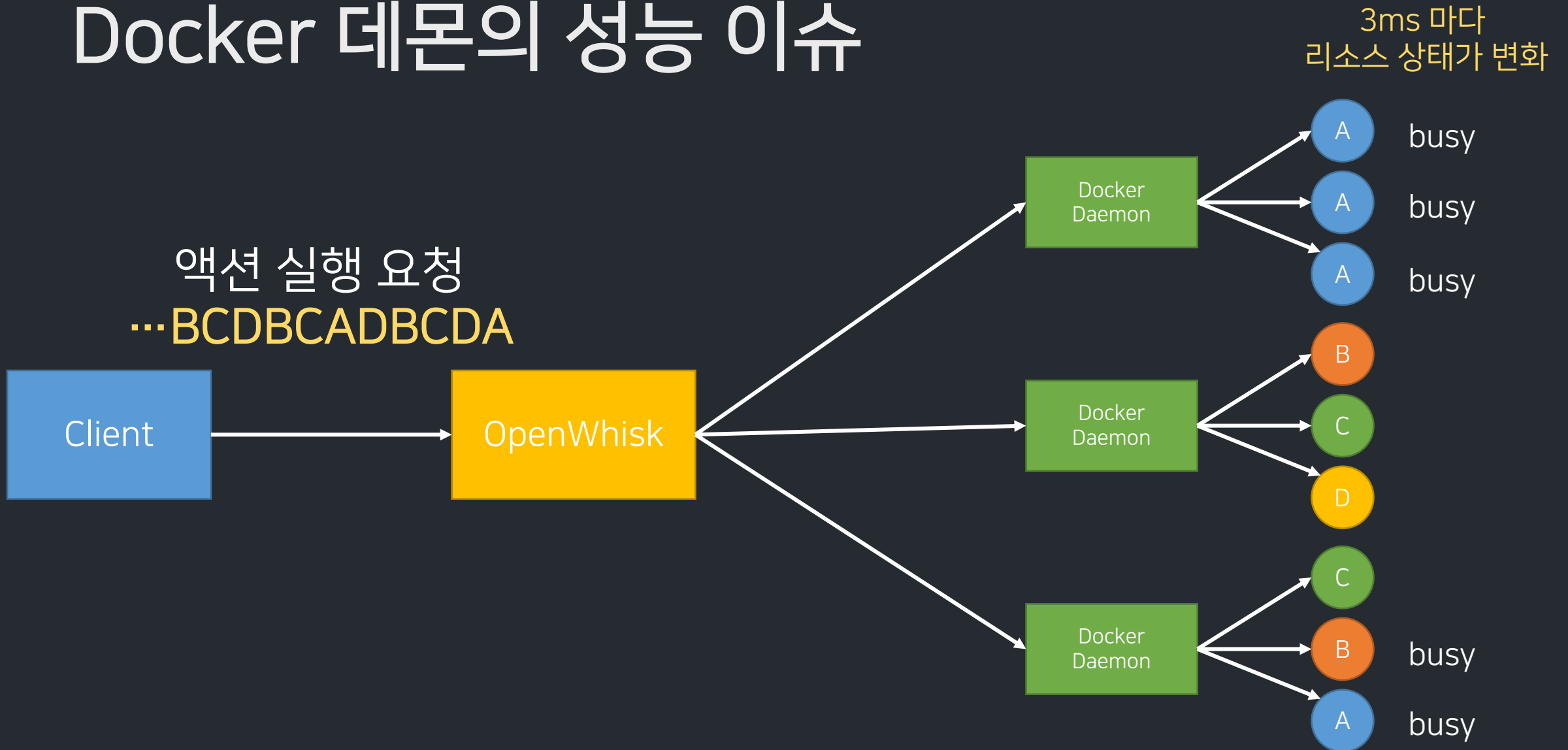
Docker 데몬의 성능 이슈

- Docker API의 처리속도가 느림
- Docker daemon이 요청을 직렬로 처리
- 잦은 API 호출 및 동시 호출 (X)
- Docker API 호출 최소화 및 기존 컨테이너 재사용이 핵심

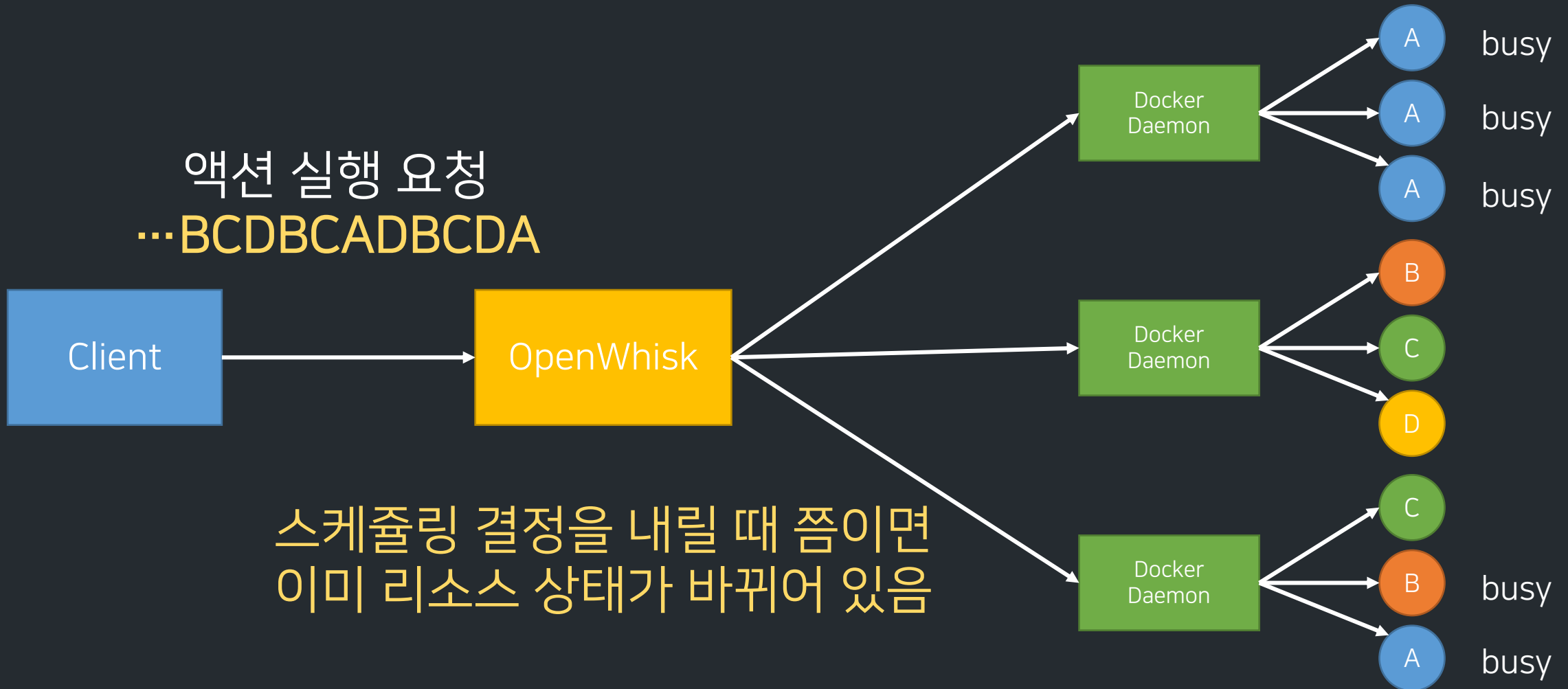
Docker 데몬의 성능 이슈



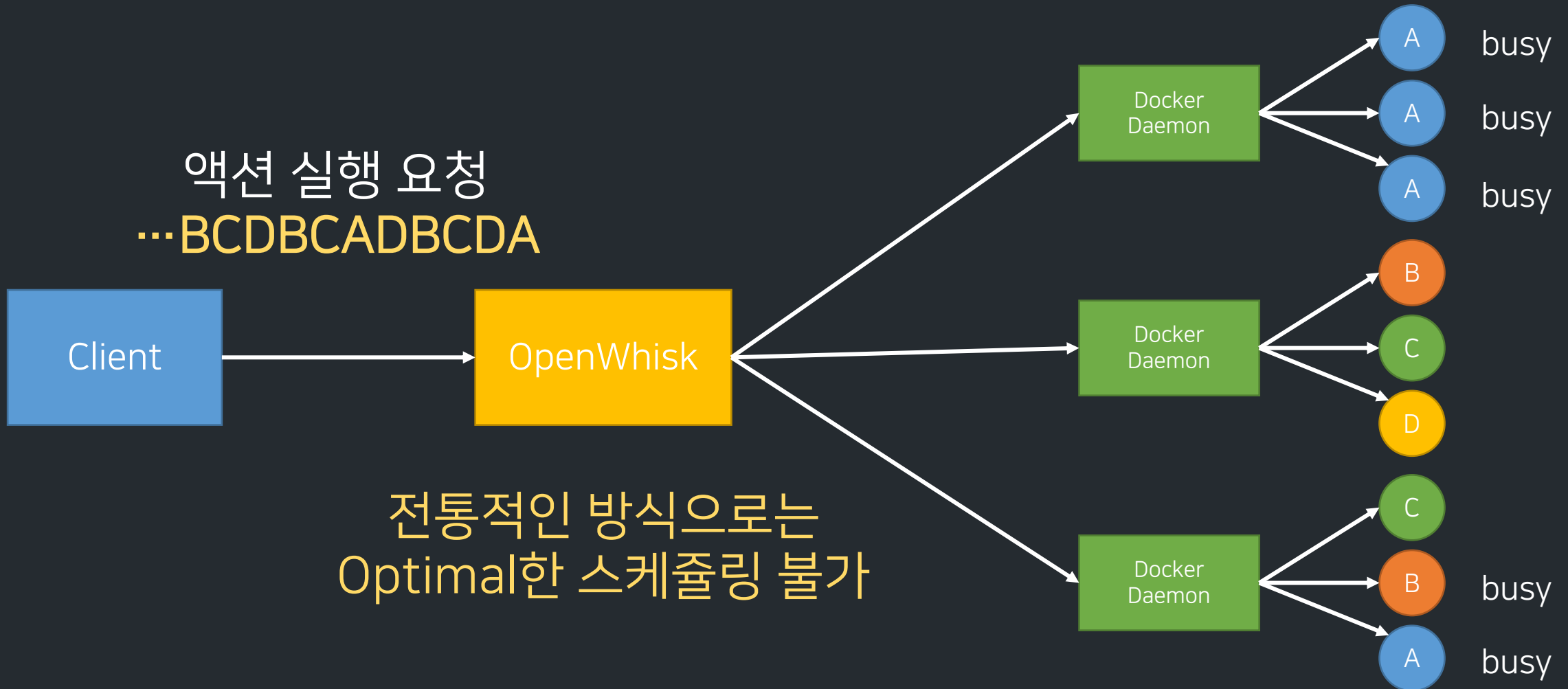
Docker 데몬의 성능 이슈



Docker 데몬의 성능 이슈

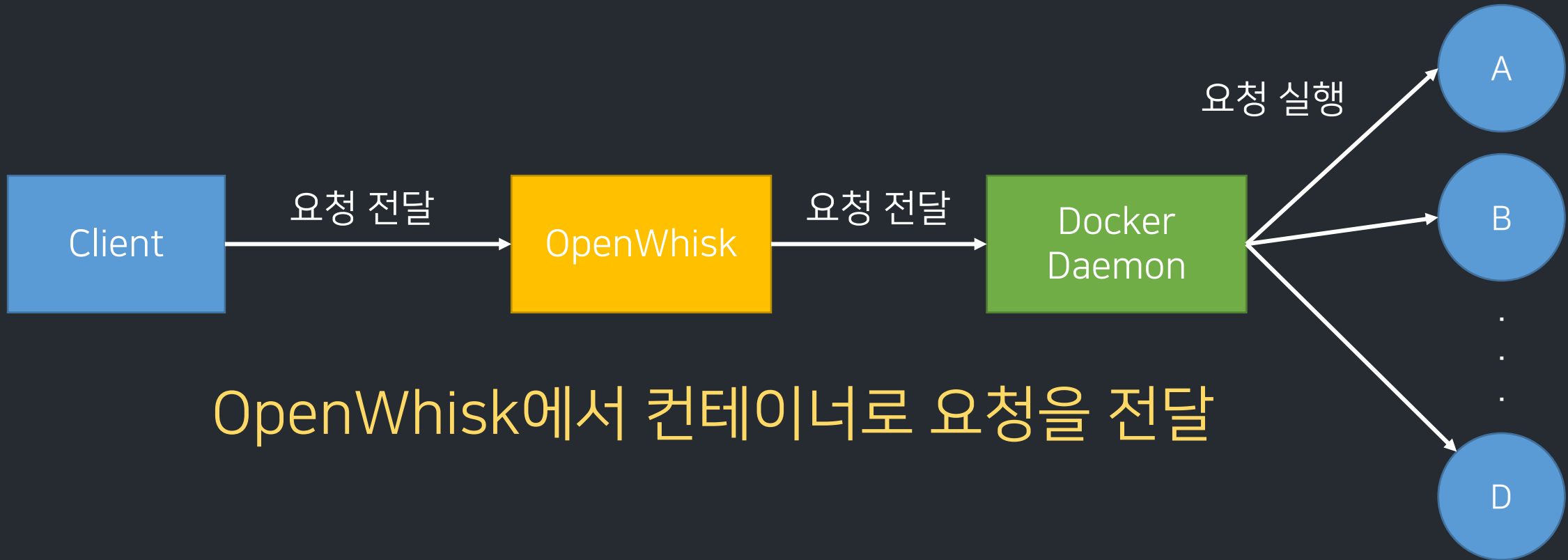


Docker 데몬의 성능 이슈



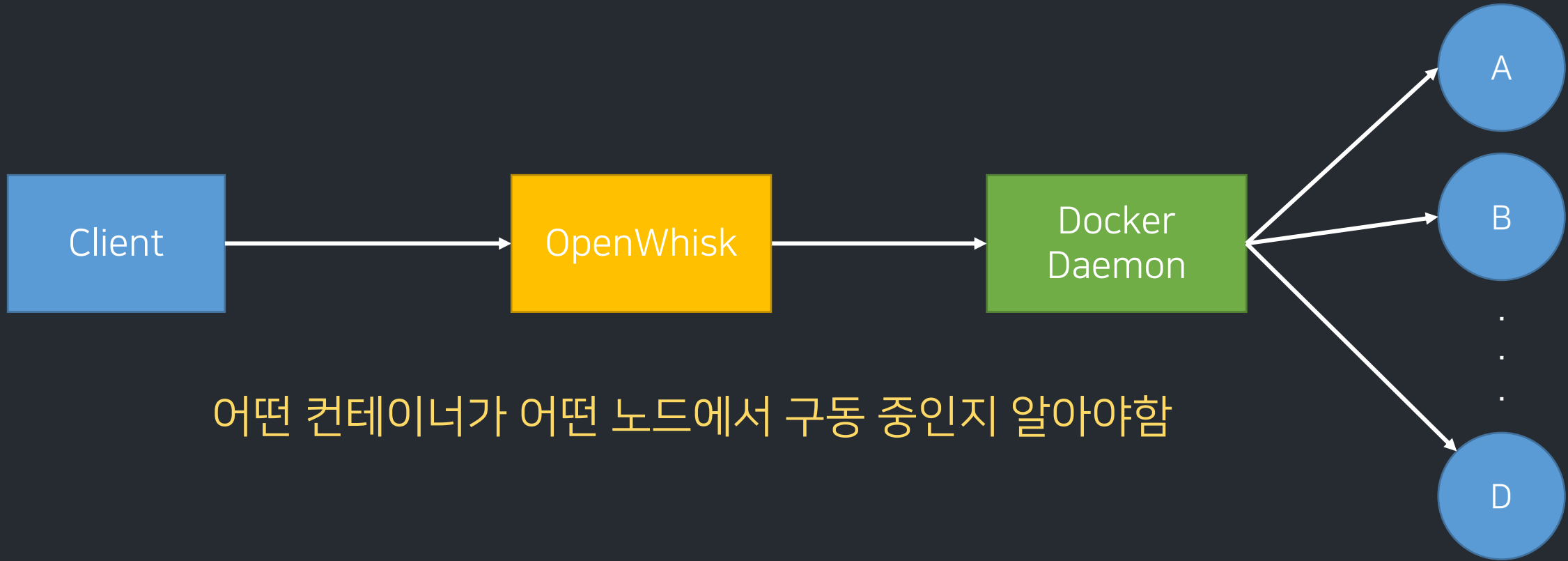
해결 방안1 - Pull 방식

기존방식 - Push

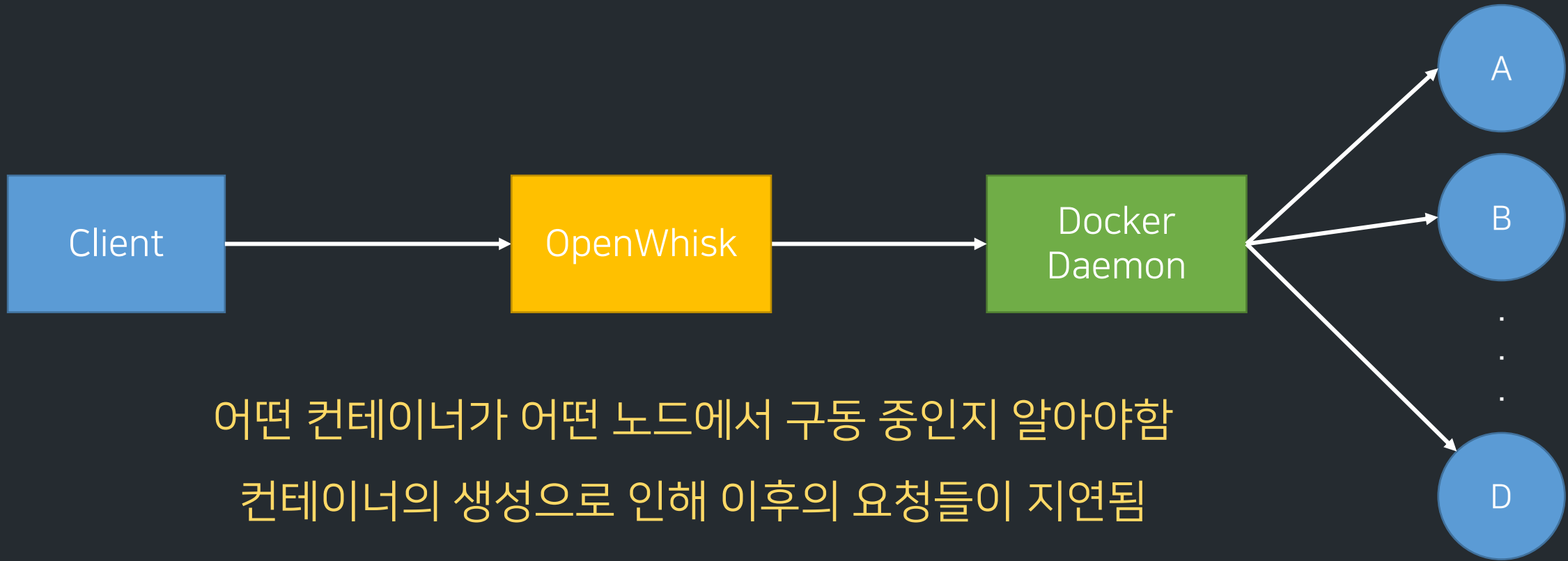


OpenWhisk에서 컨테이너로 요청을 전달

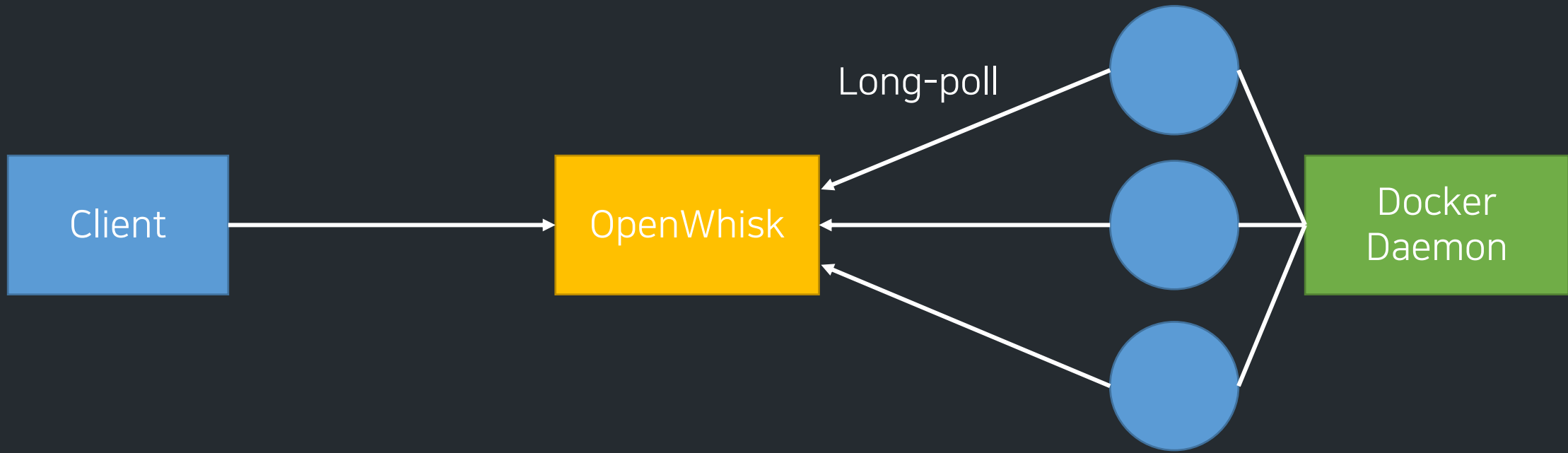
기존방식 - Push



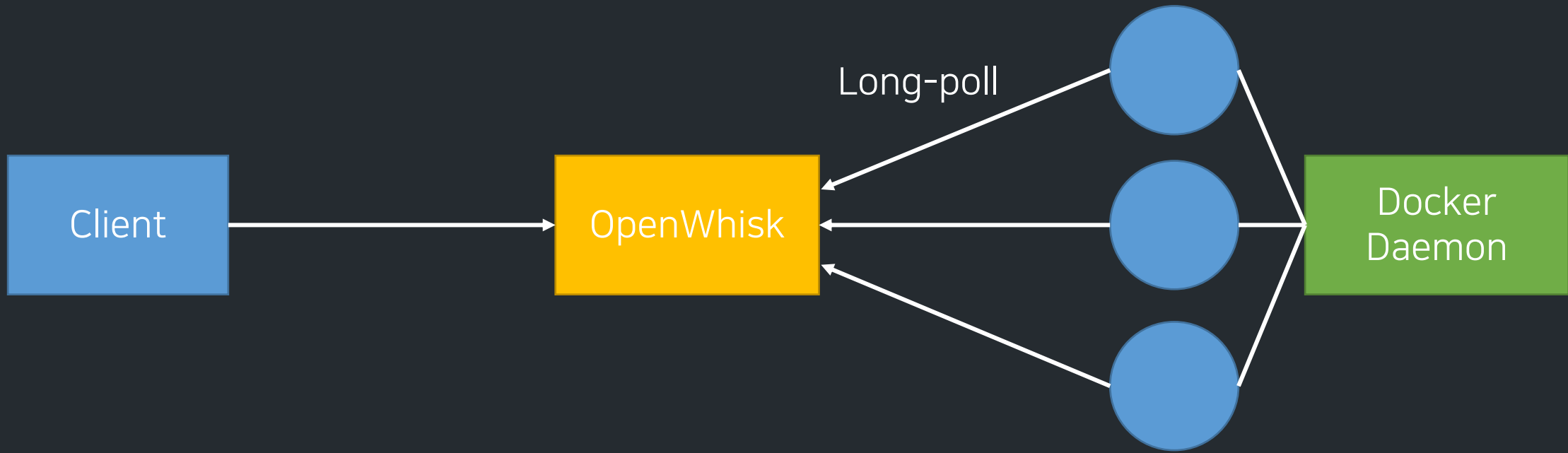
기존방식 - Push



극복방안1 - Pull

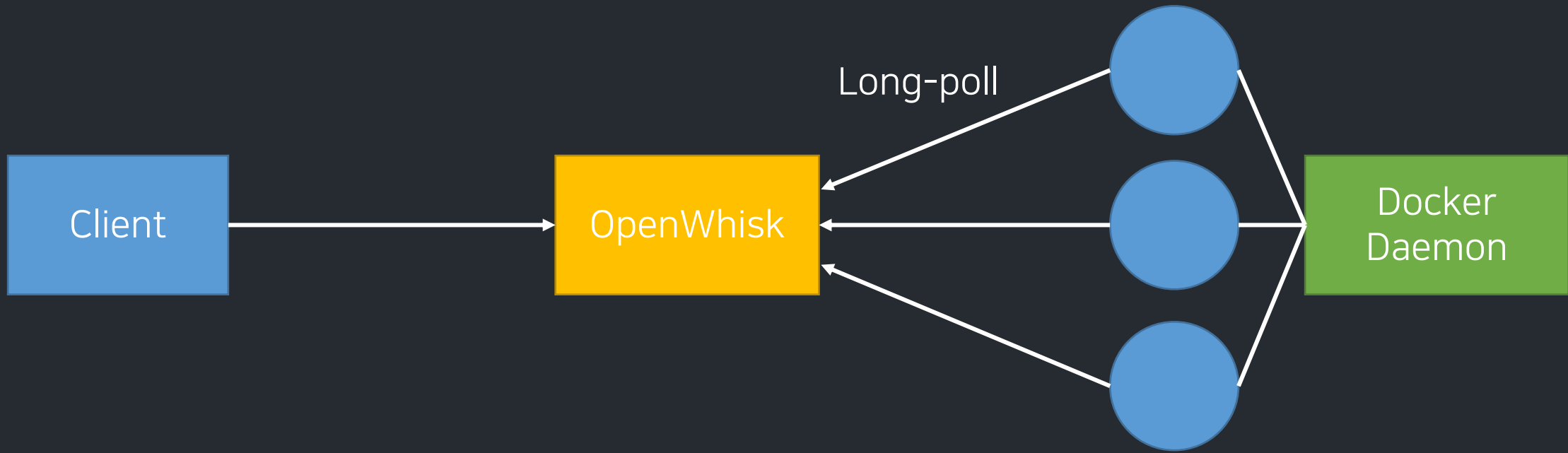


극복방안1 - Pull



각 컨테이너가 직접 요청을 가져감

극복방안1 - Pull



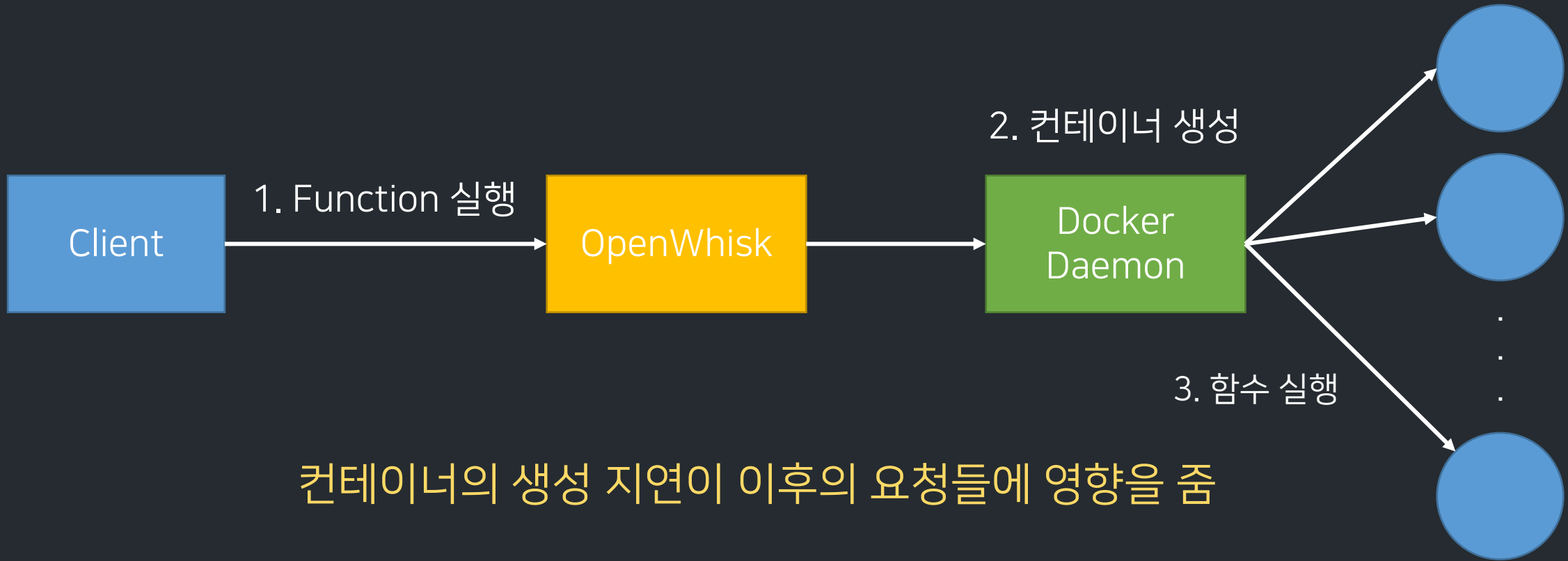
OpenWhisk는 컨테이너의 위치를 신경 쓸 필요가 없음

각 컨테이너가 서로에게 영향을 주지 않음

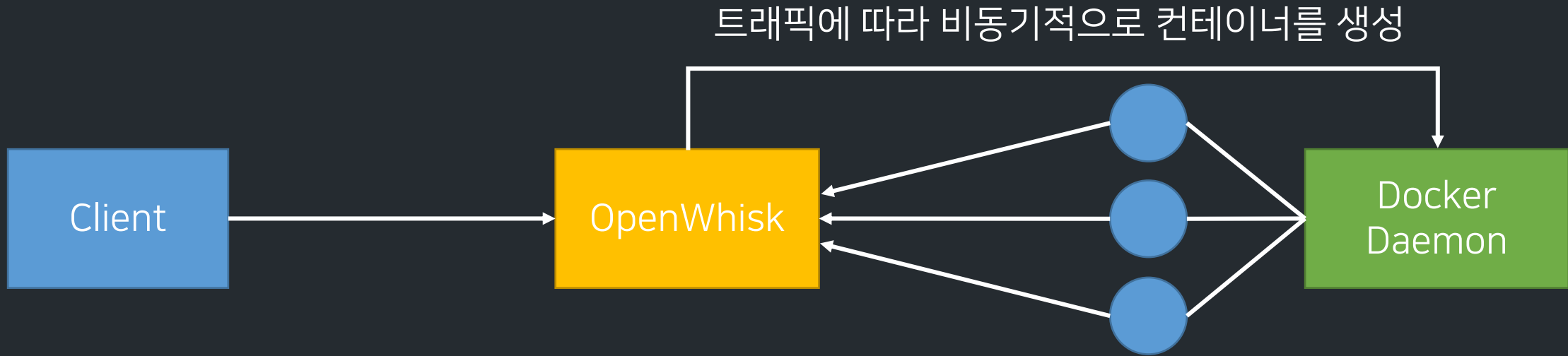
각 컨테이너의 재사용 률을 최대화 할 수 있음

해결 방안2 - 실행과 생성의 분리

기존방식 - 실행 = 컨테이너 생성



극복방안2 - 실행과 생성의 분리



컨테이너의 생성 지연이 기존 실행에 영향을 주지 않음

Docker daemon의 로드를 최대한 분산시킬 수 있음

new-scheduling-proposal-owbiweekly-meeting

홈 삽입 디자인 전환 애니메이션 슬라이드 쇼 검토 보기

레이아웃
원래대로
색선

가 가 간 캐러 X² X₂ 가나 Aa 가

SmartArt 로 변환

그림 간 텍스트 상자 정렬 빠른 스타일

90

91

92 Performance Evaluation

93

94

95

96

97

OpenWhisk Scheduling Proposal

부제목을 입력하십시오

여기에 슬라이드 노트의 내용을 입력하십시오

슬라이드 0/0 .. 97 한국어

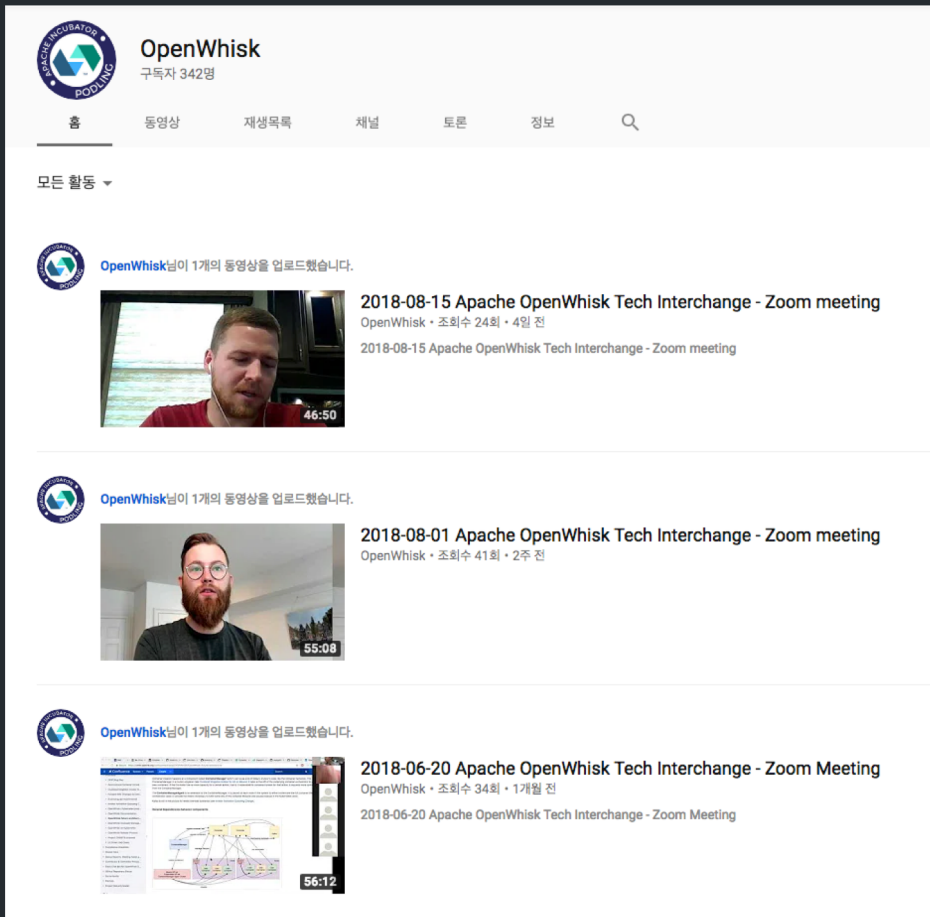
노트 메모

104%

신규 스케줄링 알고리즘 공유

Bi-weekly Meeting

- 전세계 커뮤니티 멤버들이 모임
- 이슈나 신규 기술 등을 공유하는 자리
- 누구나 참석 가능
- 밤 11시에 시작됨

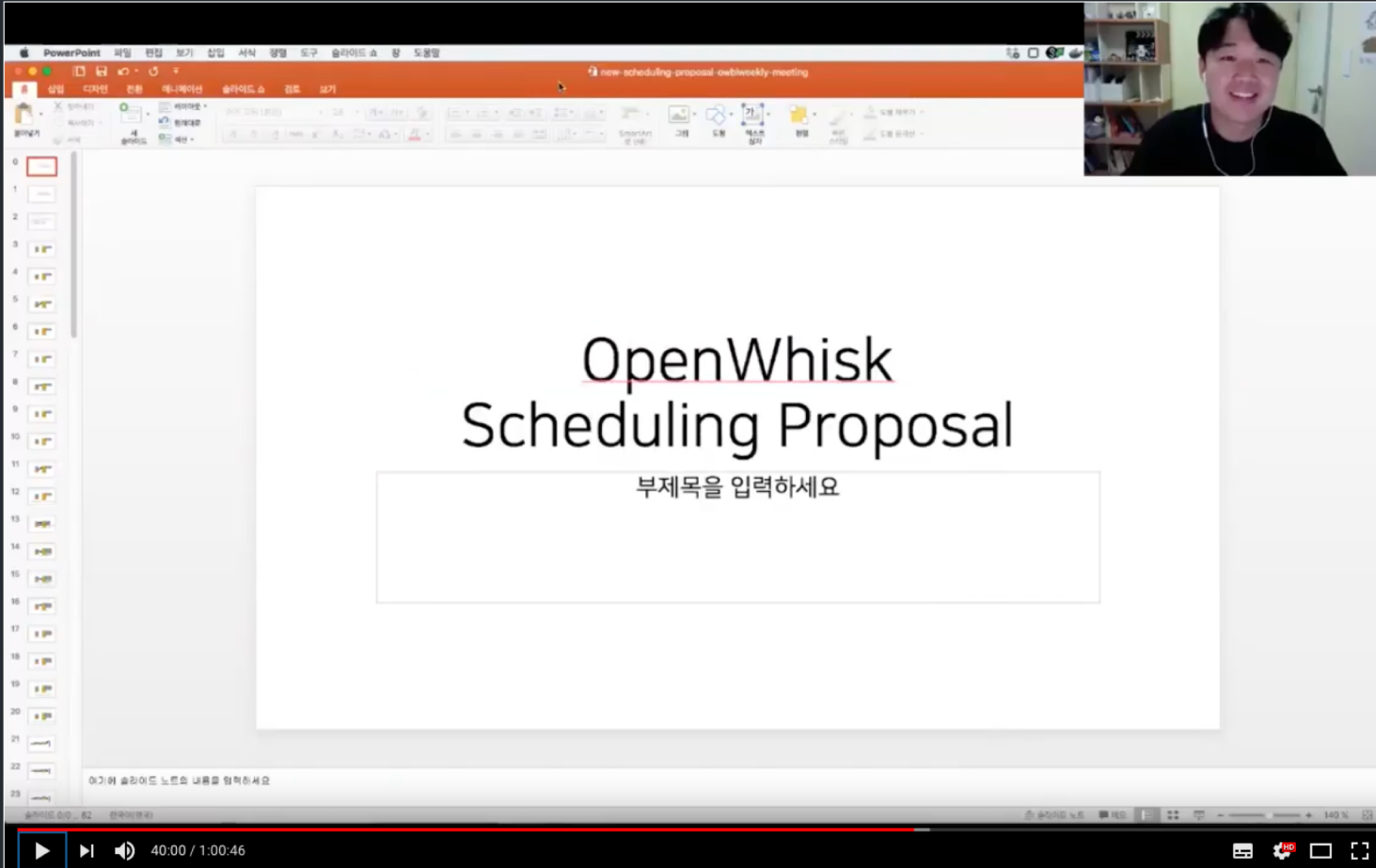


The screenshot shows the YouTube channel page for OpenWhisk, which has 342 subscribers. The channel name is 'OpenWhisk' and it has 342 subscribers. The page displays a list of video uploads:

- 2018-08-15 Apache OpenWhisk Tech Interchange - Zoom meeting**
OpenWhisk · 조회수 24회 · 4일 전
2018-08-15 Apache OpenWhisk Tech Interchange - Zoom meeting
46:50
- 2018-08-01 Apache OpenWhisk Tech Interchange - Zoom meeting**
OpenWhisk · 조회수 41회 · 2주 전
55:08
- 2018-06-20 Apache OpenWhisk Tech Interchange - Zoom Meeting**
OpenWhisk · 조회수 34회 · 1개월 전
2018-06-20 Apache OpenWhisk Tech Interchange - Zoom Meeting
56:12

<https://www.youtube.com/watch?v=cgictUeK-Vk&feature=youtu.be>

신규 스케줄링 알고리즘 공유



The image shows a screenshot of a video player displaying a PowerPoint presentation. The presentation title is "OpenWhisk Scheduling Proposal" and the subtitle is "부제목을 입력하세요". The video player interface includes a progress bar at the bottom showing 40:00 / 1:00:46. A small video feed of a person is visible in the top right corner of the presentation window.

<https://www.youtube.com/watch?v=cgictUeK-Vk&feature=youtu.be>

신규 스케줄링 알고리즘 공유

The image shows a YouTube video player displaying a presentation slide. The slide title is "Problems in real scene - Nondeterministic performance". The slide content includes a bulleted list of points and a diagram illustrating TPS (Transactions Per Second) under various conditions.

Problems in real scene - Nondeterministic performance

- In current architecture, it's not easy to determine **when do we have to add more servers.**
 - Though other invokers have enough capacity, TPS is less if **HomeInvoker** of actions are same.
 - **TPS is not proportional to the number of invokers.** -> Intervention occurred, TPS decreases, not occurred, TPS increases.
 - It's not easy to advertise our official TPS as well.
- **TPS is highly dependent on container creation/deletion.**
 - If **ColdStart** is occurred, execution time become at least 700ms.

Diagram Data:

Configuration	TPS
1 action with 100 users	20,000
10 actions with 100 users	6,000
100 actions with 100 users	30
10 action with 100 users	6,000
10 action with 200 users	2,400
10 action with 750 users	30

2018-05-23 OpenWhisk Tech Interchange - Web Meeting
조회수 78회
1 0 공유 ...
OpenWhisk
게시일: 2018. 5. 23.
구독중 346

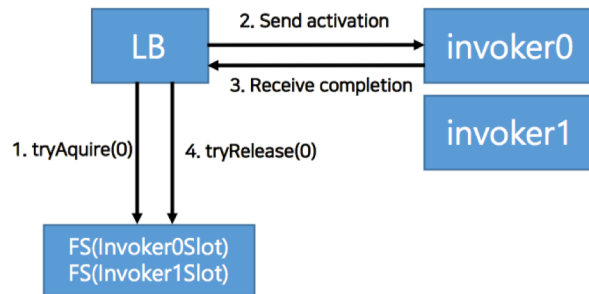
<https://www.youtube.com/watch?v=cgictUeK-Vk&feature=youtu.be>

현재 스케줄링 로직 분석

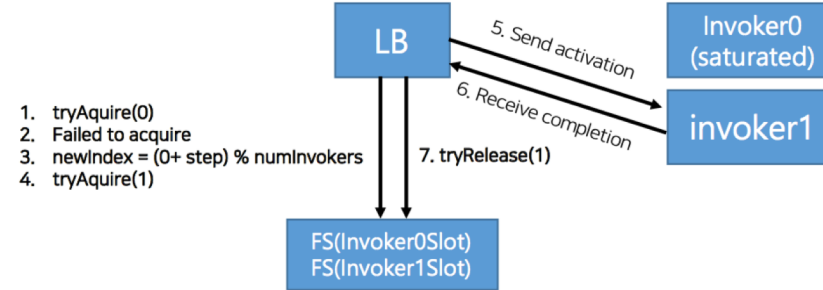
Current Implementation (3/6) - *Forcable Semaphore*

- Loadbalancer chooses invoker based on *ForcableSemaphore*

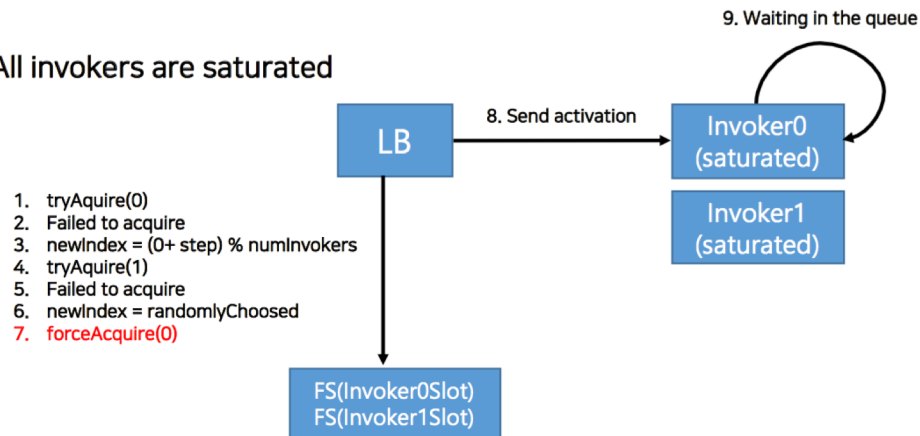
Normal situation



Home Invoker is saturated

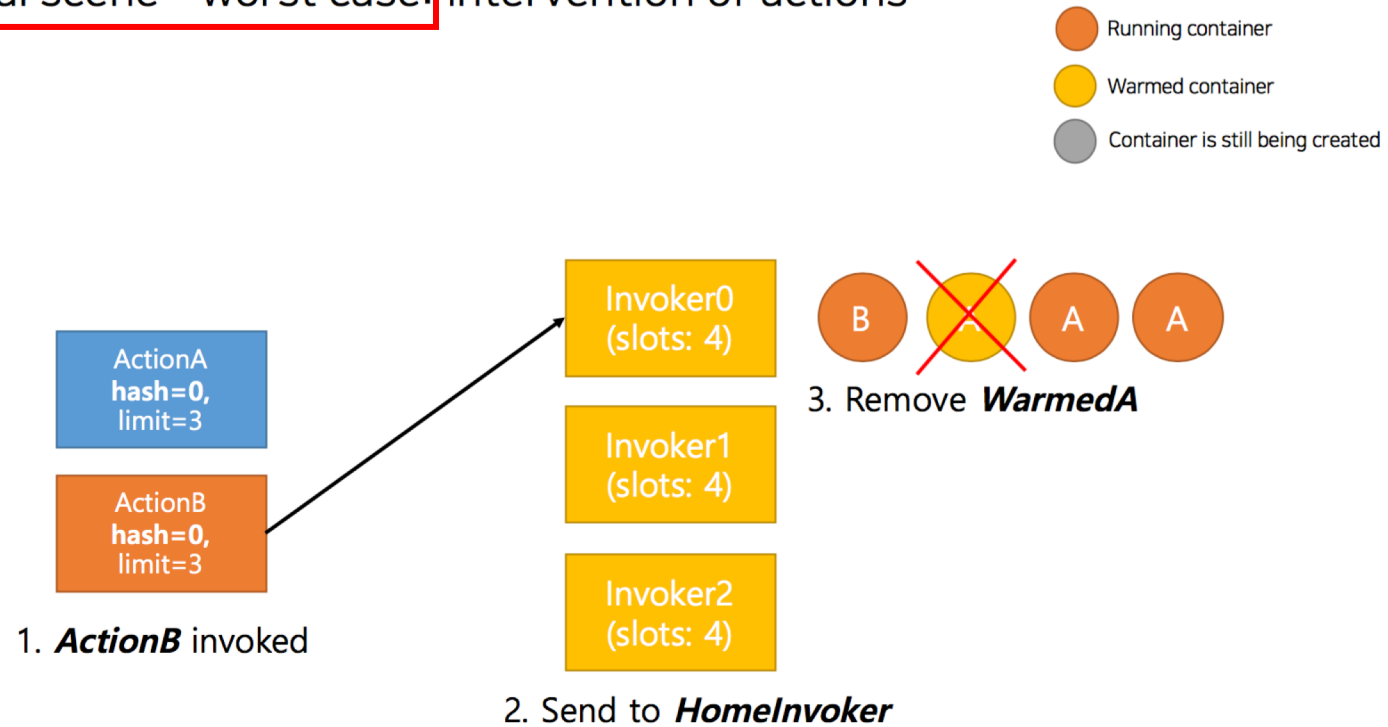


All invokers are saturated



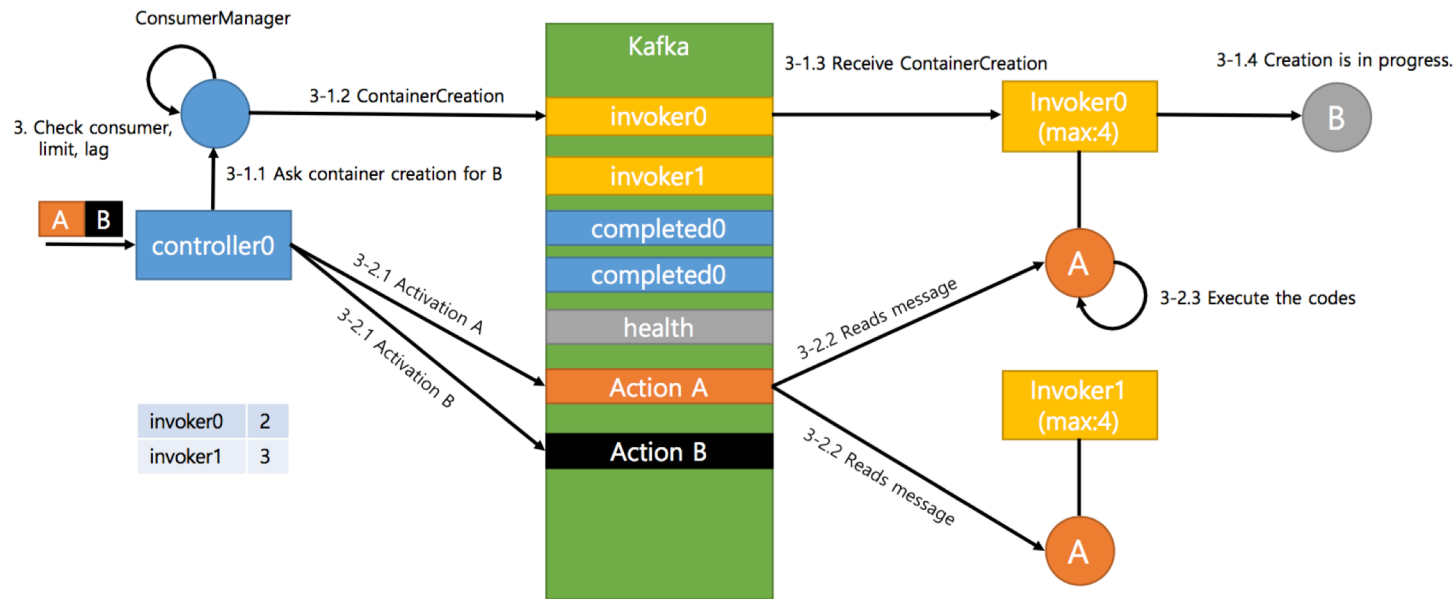
성능 이슈 분석

Problems in real scene – worst case: intervention of actions



신규 알고리즘 제안

Autonomous Container Scheduling: Performance Isolation

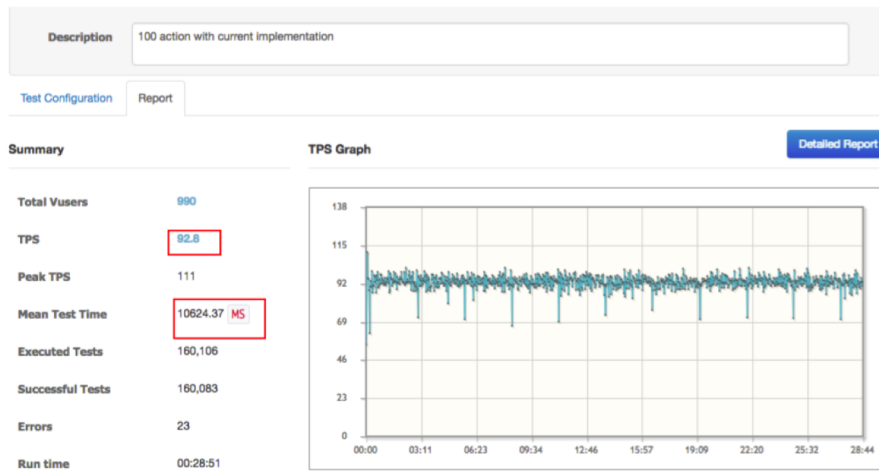


Container creation does not affect the existing container performance

Proto-typing 및 성능 비교 벤치마크

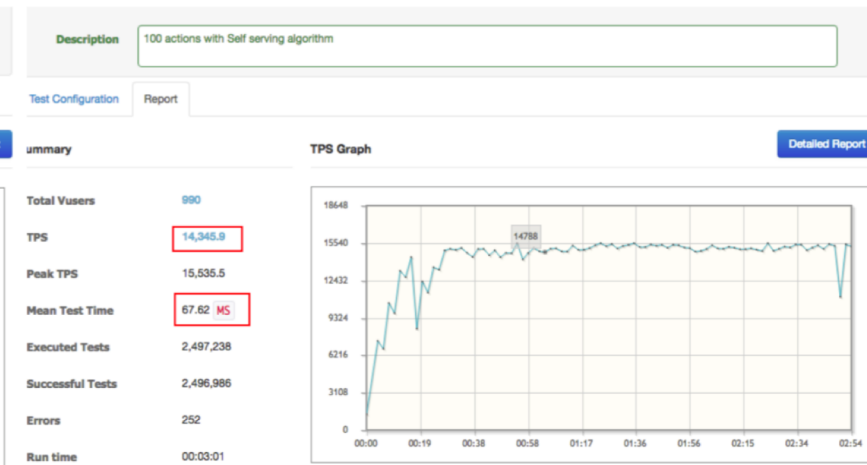
Performance comparison - 100 actions test

Current implementation



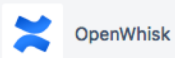
100 actions with 180 containers

New implementation



100 actions with 1 containers each(100 containers)

163 times more TPS
158 times faster execution



페이지

블로그

공간 바로가기

Project links

페이지 트리

- Subproject listing

- Policies

Proposals

- [WIP] Bug Day

- [WIP] OpenWhisk on Knative

- AI Actions

- **Autonomous Container Sch...**

- Clustered Singleton Invoker f...

- Forward Wiki Changes to Co...

- Illustrating api-experimental

- Invoker Activation Queueing ...

- OpenWhisk / Kubernetes pro...

- OpenWhisk Documentation P...

- OpenWhisk future architecture

- OpenWhisk Graduate Manage...

- OpenWhisk on Kubernetes

- OpenWhisk Release Process

- OpenWhisk Website Redesign

- Project CREDITS proposal

- Proposal to Include Karate(B...

- Slack Chat Bot for OpenWhis...

페이지 / OpenWhisk Project Wiki / Proposals

Autonomous Container Scheduling

작성자 : Dominic Kim - 5월 25, 2018

I described the details in the attached file. I will give a speech on this at biweekly meeting on 6th June, 2018.



Main agendas are as follow:

Index

1. Current implementation details
2. Potential issues with current implementation
3. New scheduling algorithm proposal: Autonomous Container Scheduling
4. Review previous issues with new scheduling algorithm
5. Pros and cons of new scheduling algorithm
6. Performance evaluation with prototyping



OpenWhisk future architecture

Markus Thömmes님이 작성, 8월 14, 2018에 최종 변경



Architectural differences



We currently basically have 2 ways of deploying OpenWhisk:

1. On raw VMs or bare-metal machines, where we need to deploy the invokers to each of the worker nodes to be able to create containers locally and manage them to make a lot of performance optimisations.
2. Atop a container orchestrator, where we can transparently generate containers across a cluster of worker nodes. The concept of the invoker feels foreign in this



Yes, there are multiple flavors to both of those (there's an invoker-centric version of the Kubernetes deployment for instance), but in essence it boils to the two flavors

The issue here is, that the needs and abstractions for these two types are different and make it hard to exist next to each other in one shared codebase. This causes

Proposal

I believe we can (and should) converge on an architecture that abstract the VM/bare-metal case away and give the Controller direct access to the containers for each [Scheduling, Clustered Singleton Invoker for HA on Mesos](#) and it is a natural fit for the orchestrator based deployments, which the whole community seems to move to

The following is a proposal on where we could move to in the future. Please note that not all of it is completely thought out until the end and there are open questions converge our topologies and get an overall better and cleaner picture.

The main goal of this document is to help us discuss on the overall architecture and then decide on a direction that we all think is viable to go in. It is **not** meant to be separate discussions. It is meant though to identify early show-stoppers or concepts that we think cannot fly.

1. Overview

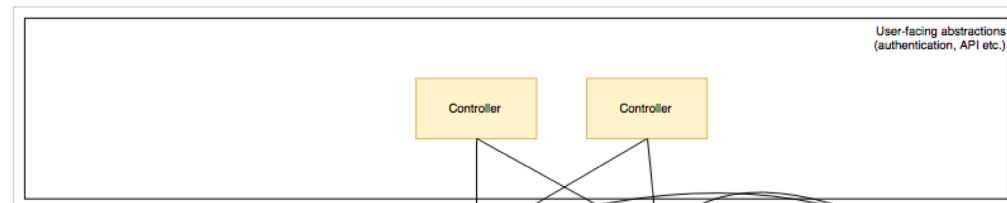
The overall architecture revolves around a clear distinction between user-facing abstractions (implemented by the Controller as of today) and the execution system, where the containers (similar to [Autonomous Container Scheduling](#) in a sense). The Controller orchestrates the full workflow of an activation (calling ``/run``, getting the result from the Invoker as we know it today from the critical path. Picking a container boils down to choosing a free (warm) container from a locally known list of containers for a specific

Container creation happens at a component called **ContainerManager** (which can reuse a lot of today's invoker's code, like the container factories). The ContainerManager uses the underlying container orchestrator to create new containers. If the **ContainerRouter** has no more capacity for a certain action, that is, it exhausted its containers k

The **ContainerManagerAgent** is an extension to the ContainerManager. It is placed on each node in the system to either orchestrate the full container lifecycle (no or pause/unpause in the Kubernetes case).

Kafka is still in the picture to handle overload scenarios (see [Invoker Activation Queueing Change](#)).

General dependencies between components



Autonomous Container Scheduler v2

작성자 : Dominic Kim - 11월 28, 2018

This document describes the next version of *Autonomous Container Scheduling*.

- Basics
- 1. Segregation of container creation and activation processing
- 2. Location-independent scheduling.
- 3. MessageDistributor
- 4. ContainerProxy Lifecycle changes
- 5. ETCD
- 6. ActionMonitor
- 7. Changes in Throttler.
- 8. ETC
 - 8.1 Handling of Action updates
 - 8.2 Drawbacks of ACS
 - 1. It is more effective for short-running actions.
 - 2. Since a container is asynchronously created, the first invocation can take a little bit more time.
 - 3. In the big cluster(e.g: # of controllers/invokers > 500-1000), it might not be effective because it rely on ETCD transaction and Kafka partitions.

Basics

Currently, *discussion and the implementation for future architecture of OW* are in progress.

I agree with many parts of the future architecture and that would be the right direction to step up, IMHO.

(I hope I can also participate in the implementation of them.)

It seems, however it will take some time to take those into OW and stabilize them.

What if we can improve the performance of OpenWhisk more than 150 times with the relatively small amount of efforts by adopting new scheduler based on current architecture?

I think it would be worth to take it in until the new implementation is ready.

With SPI abstraction, the new scheduler can even coexist with the existing one.

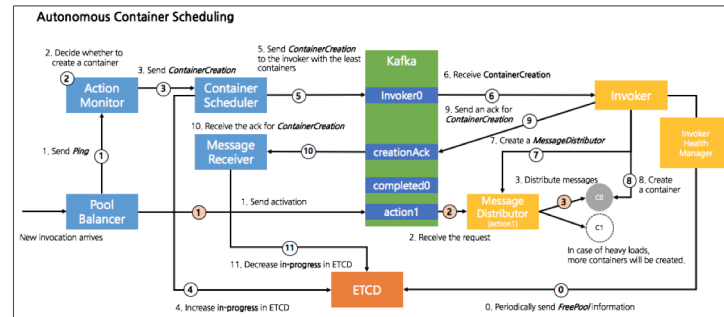
OW operators can choose the suitable scheduler which fits their needs the best.

In the *Autonomous Container Scheduler*(I will call it *ACS* in the rest of this document), there are following major changes:

- Activation is handled in a best-effort manner.
 - One container will try its best to handle activations
 - When existing containers are not enough to properly handle incoming activations, more containers are created for the action.
- Once action containers are initialized, they exist longer than the current implementation.
 - They wait for subsequent requests for about 5-10s (configurable value).
- The criteria for throttling is no more *activation per minute*, now the throttler cares *the number of containers for the given action(namespace)* and *processing speed of existing containers*.
 - It denotes that once a container is initialized, it is occupied by the given action.

The following diagram depicts the basic flow of *container creation* and *activation invocation*.

Each path is separately handled. So there are only 3 steps in the *activation path*.



Distributed Scheduler #758

Merged

geonhui-kim merged 92 commits into `master` from `without-debugger` on 4 Jun

Conversation 6

Commits 92

Checks 0

Files changed 115



dominic-kim commented on 30 May

+ 😊 ...

No description provided.



dominic-kim and others added some commits on 13 Feb

- Initial commit for Scheduler 6580b39
- Initial commit for Activation gRPC Service (#608) ac8dd87
- Fix unused-import issue (#610) 5e2e025
- Etcd Utils (#609) ... 6e888e9
- Add ActivationServiceImpl (#612) ... 4646177
- Add Etcd Leadership api (#614) 5c6b89f
- Unify Etcd clients (#615) f73d044
- Add MemoryQueue and leader election process (#616) ... d6e3c98
- Queue gRPC service (#617) ... 149221d

[Scheduler] Initial commit for Scheduler #4547

 Open style95 wants to merge 2 commits into `apache:master` from `style95:add-the-scheduler` 

 Conversation 7

 Commits 2

 Checks 0

 Files changed 5



style95 commented on 6 Jul

Member



This is an initial commit for the new core component, "the scheduler".
This PR supersedes the previous PRs, #4507, #4532.

Now we agree with incremental merging into the master.

We will implement modules based on the order defined in this page and add design documents under the page as well:

<https://cwiki.apache.org/confluence/display/OPENWHISK/Component+Design>

I added the first component design document for the "scheduler" component.

<https://cwiki.apache.org/confluence/display/OPENWHISK/Scheduler>

I created a new label, "scheduler".

All PRs which are dependent on this PR will be labeled with it.

첫 PR 오픈





















View mode: threaded

Deep Search, 3 year view

Clear filters

Show next 10

Show stats panel.

-  **Dominic Kim** [dev@openwhisk](#) **Re: [VOTE] Release Apache OpenWhisk Command-line Interface (CLI), Op...** 2 people 4 replies 2019-09-23 01:48 
I am not sure this is my issue, but file scanning is failed in my mac while verifying the release. ... scanning for executable files... pass...
-  **Dominic Kim** [dev@openwhisk](#) **Re: [NOTICE] OW Tech. Interchange Mtg. start time changed (1 hour earlier)** 0 replies 2019-09-19 07:12 
Dear community. Thank you all for generosity. I would try my best to attend the meeting and encourage others to do as well. Best re...
-  **OpenWhisk Team SI...** [dev@openwhisk](#) **[slack-digest] [2019-09-17] #random** 0 replies 2019-09-18 08:54 
2019-09-17 10:45:31 UTC - chetanm: <https://demo.kibble.apache.org/dashboard.html?page=repos&view=3662950f538659f6acce...
-  **Dominic Kim** [dev@openwhisk](#) **Re: Re: Backpressure for slow activation storage in Invoker** 3 people 4 replies 2019-09-16 15:32 
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Subscribe

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Show next 10

100개 스레드 참여





















View mode: threaded

Deep Search, 3 year view

Clear filters

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핵심적인 기능 및 구조 개선과
프로젝트 운영 및 릴리즈에 참여 중

general | OpenWhisk Slack

https://openwhisk-team.slack.com/messages/C3TPCAQG1/convo/C3UDXSFA6-1557990815.051900/

Connect 계산 TTS등록 드라이브 예약 디자인 일정 시간 관리 paas_pasta Chat Slack Contr OpenWhisk Lambda Apache web

OpenWhisk

style95

Jump to...

All Unreads

Threads

Channels

- # apigateway
- # composer
- # events-meetups-confs
- # general
- # jobs
- # kubernetes
- # performance
- # random
- # website
- # wskdeploy

+ Add a channel

Direct Messages

- Slackbot
- style95 (you)
- chetanm
- dgrove
- kpavel
- Mingyu Zhou
- mrutkowski
- Nikolai Starodubtcev
- rr
- Sven Lange-Last
- vincent_hou

#general

1,251 7 | Talk about OpenWhisk follow Code of Conduct: <https://github.com/openwhisk/>

Yesterday

rr 11:37 PM
my guess will be you have a promise that isn't resolved and so the action times out another usual suspect is a `request` that hangs (edited)

francois 11:38 PM
Mm I was wondering about some problems with promises too. Ok I will check that again. thanks!

rr 11:39 PM
try running `node <your action.js>` locally and see if it terminates

francois 11:40 PM
well I don't have this problem locally and it occurs sometimes, I would

11:40 PM So maybe once in a while there's a problem to connect to the remote server I'm calling

Today

Yang 3:11 AM
joined #general.

bin 4:18 AM
Hello everyone! I have a question here. Is it possible to install the lean configuration of OpenWhisk using helm?

dgrove 4:22 AM
You should be able to do it by just adding a flag to your myCluster.yaml (<https://github.com/apache/incubator-openwhisk-deploy-kube#deploying-lean-openwhisk-version>)

```
1 controller:
2   lean: true
```

Message #general

Thread

#random

style95 May 16th at 4:13 PM
@Jin.C I am not sure this is relevant to your case, but when I download `csv` file via a web action, I used following headers:

```
'headers': {
  'Content-Type': 'text/csv',
  'content-length': str(len(results)),
  'Content-Encoding': 'UTF-32',
  'charset': 'UTF-32LE',
  'Content-Disposition':
  'attachment;filename=ExportedData.csv'
},
```

14 replies

Jin.C 1 month ago
Whether you request a specific Content-Encoding is a different matter from whether you get a result in the requested format. What do you see in the response header for the action call? (edited)

style95 1 month ago
I am trying to enable gzip compression in a webaction, how can I confirm the html is passed with compressions in chrome?

Jin.C 1 month ago
I think you need an extension in Chrome to be able to tweak the options. Why don't you use `curl` on terminal? (edited)

Jin.C 1 month ago
Oh I think I misunderstood you.

Jin.C 1 month ago
You can see the response header in [Developers Tool](#)

Invitation to become Apache OpenWhisk Committer and PPMC member: Dominic Kim



받은편지함 x



Rodric Rabbah <rodric@gmail.com>

나, private에게 ▾

4월 6일 (토) 오후 8:51



Hello Dominic,

The Apache OpenWhisk Project Management Committee (PMC) hereby offers you committer privileges to the project as well as a membership on the Podling Project Mgmt. Committee (PPMC). Please read both parts of this email below.

Committer privileges are offered on the understanding that you'll use them reasonably and with common sense. We like to work on trust rather than unnecessary constraints.

Being a committer enables you to more easily make changes without needing to go through the patch submission process.

Being a committer does not require you to participate any more than you already do. It does tend to make one even more committed. You will probably find that you spend more time here.

Of course, you can decline and instead remain as a contributor, participating as you do now.

A. This personal invitation is a chance for you to accept or decline in private. Either way, please let us know in reply to the private@openwhisk.apache.org address only.

B. If you accept the invitation, you will also have to choose a unique Apache account username and let us know. We need this before we can proceed with account creation and assigning required permissions. To verify that your desired username does not already exist, please head over to the [people index \[1\]](#) and do a quick search to see if the login id is in use. Please also choose an email forwarding address for your Apache account.

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2017. 2.1 ~ 2019. 4.6.

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2017. 2.1 ~ 2019. 4.6. 2년 2개월

From: Markus Thömmes <markusthoemmes@apache.org>

Sent: Tuesday, March 26, 2019 10:28 AM

To: private@openwhisk.apache.org

Subject: Re: [DISCUSS] Dominic Kim PPMC membership

Definitely. He's a natural fit for the contributor position and **knows the innerts of the system like few others.**

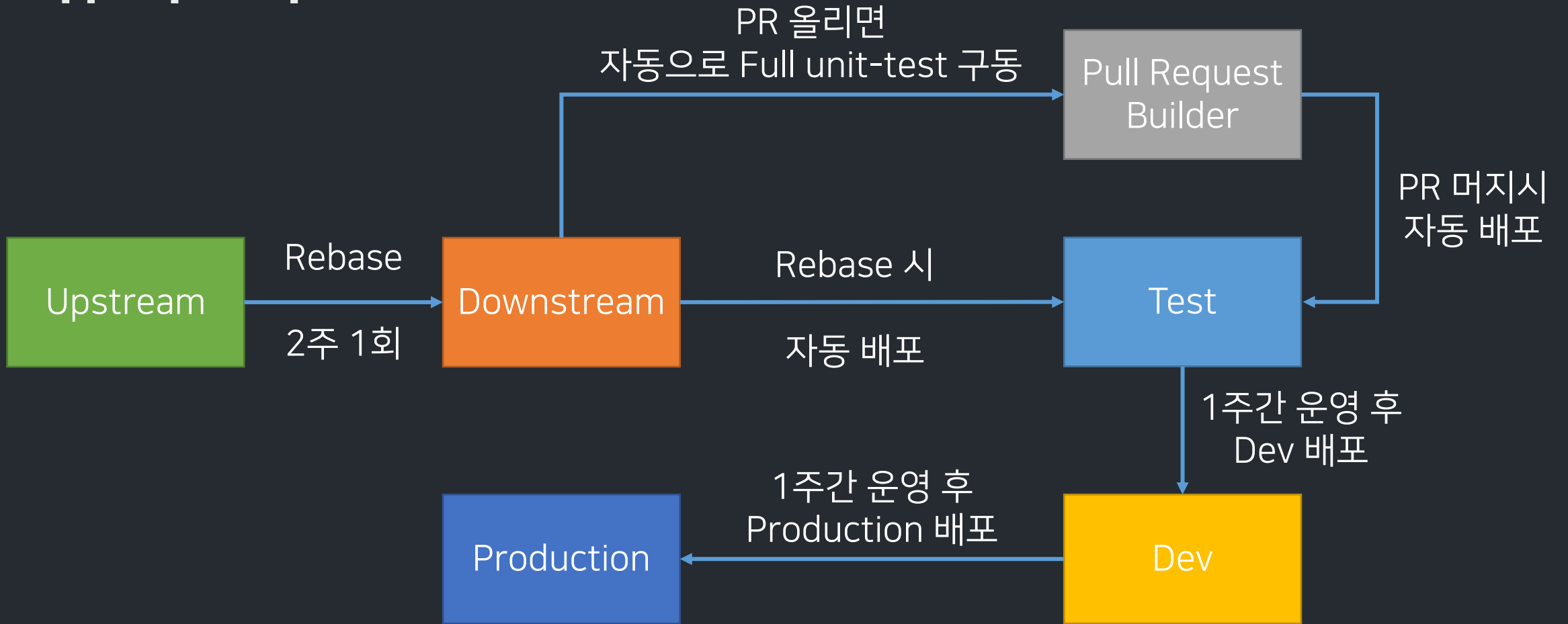
+1 from me.

그리고 지금은...

2017년 3월 시작



유지보수



유지보수

- 주기적인 Rebase (2주 1회 Rebase)
 - PR builder를 통해 Unit test
 - Test존에 자동 배포 및 검증
 - Dev존에 배포 후 1주간 운영
 - Production 존에 최종 배포
- 오픈소스 CLI와 호환
- Contribution first

Fork 수는 늘어만 가고



 **Repositories** 48

 **People** 154

 **Teams** 6

 **Projects** 0

 **Settings**

Find a repository...

Type: All ▾

Language: All ▾

Customize pins

 **New**

요즘은?

에러 및 로그가 제대로 출력되지 않는 이슈 #437

 Closed

dominic-kim opened this issue on 26 Apr 2018 · 15 comments



dominic-kim commented on 26 Apr 2018




아래의 액션을 실행해보면 결과와 로그창에 아래처럼 나옵니다.

<https://lambda.pasta.navercorp.com/lambda/workspace/style95/actions/airs>

```
결과 로그
Execution time : 2018-04-26 14:39:41
cURL command:
  curl -X GET "https://lambda-real.navercorp.
Error: Request failed with status code 400
```

```
결과 로그
Error: Request failed with status code 400
```

요즘은?


 donggyu-lee commented on 26 Apr 2018 • edited ▾ + 😊 ...

@dominic-kim


현재 액션 실행에 대한 로그는 실행에 대한 activationId를 가지고 요청하여 세팅해주고 있습니다.

```
this.$http.get(`/lambda/api/activations/${this.updateAction.namespace}/${data.activationId}`, {
```

그런데 웹 액션 같은 경우 액션 실행 후 response에 해당 액션 실행에대한 activationId가 넘어오지 않아 그 당시 웹 액션은 로그 출력을 일단 하지 않는 것으로 이야기 됐던것 같습니다.

 dominic-kim commented on 26 Apr 2018 Author + 😊 ...

아..!
그런거군요..
Upstream contribution이 들어가야 될것 같네요.
하다못해 header에라도 activaiton ID가 넘어오도록..

 dominic-kim commented on 26 Apr 2018 Author + 😊 ...

upstream에 일단 이슈 올렸습니다.
<https://github.com/apache/incubator-openwhisk/issues/3582>

👍 2

요즘은?

[Feature Request] Include activation ID in web action header.

[Edit](#)[New issue](#)

#3582

Closed

style95 opened this issue on 26 Apr 2018 · 4 comments · Fixed by #3671



style95 commented on 26 Apr 2018

Member + 😊 ...

Environment details:

- Any

Steps to reproduce the issue:

1. Invoke a web action.

Provide the expected results and outputs:

```
function main(params) {  
  return { response: params };  
}
```

```
curl -X GET 'localhost/api/v1/web/myNamespace/hello.json'  
{  
  "response": {  
    "__ow_method": "get",  
    "activationId": "f
```

Assignees



No one—assign yourself

Labels



None yet

Projects



None yet

Milestone



No milestone

Notifications


Customize

🔊 Unsubscribe

You're receiving notifications because you're watching this repository.


3 participants

요즘은?

 **markusthoemmes** commented on 26 Apr 2018 Member + 😊 ...


Great idea! To broaden this up a bit: Shall we report the activation ID as a header in any request that generates an activation ID (trigger fire, blocking invokes).

👍 3

 **style95** referenced this issue on 18 May 2018


Activation id in header #3671 Merged

📄 8 of 21 tasks complete

 **rabbah** commented on 24 May 2018 Member + 😊 ...

Markus, Dominic have you thought about using the request id (aka tid) as the activation id? This would avoid creating a new activation id is several cases, and is already in the header thanks to recent changes.

👍 1

 **style95** commented on 24 May 2018 Author Member + 😊 ...

@**rabbah** Yes I have seen transaction id is included in `X-Request-Id` , if it is ok to override it using activation id, I will work on it.

요즘은?

Activation id in header #3671

Merged rabbah merged 4 commits into apache:master from style95:activation-id-in-header on 23 Aug 2018

Conversation 47 Commits 4 Checks 0 Files changed 8 +91 -52

style95 commented on 18 May 2018 • edited

This closes #3582

Description

This change will add activation id in the response headers.
Since same logic needs to be used in both collection API and web action API, I created dedicated trait for custom headers.

Related issue and scope

I opened an issue to propose and discuss this change (#3582)

My changes affect the following components

- API
- Controller
- Message Bus (e.g., Kafka)
- Loadbalancer
- Invoker
- Intrinsic actions (e.g., sequences, conductors)
- Data stores (e.g., CouchDB)
- Tests
- Deployment

Reviewers: markusthoemmes, cbickel, rabbah

Assignees: cbickel

Labels: None yet

Projects: None yet

Milestone: No milestone

Notifications: Unsubscribe

요즘은?

The screenshot shows a Slack interface on a web browser. The browser's address bar displays the URL `https://openwhisk-team.slack.com/messages/DH...`. The Slack sidebar on the left shows the workspace name "OpenWhisk" and a list of direct messages, with "Sven Lange-Last" selected. The main chat area shows a message from "Sven Lange-Last" at 3:25 PM, which is highlighted with a red box. The message text is: "hello dominic", "i'm contacting you because of your work on updating the docker client to a later version: [https://github.com/apache/incubator-openwhisk/pull/4430](\"https://github.com/apache/incubator-openwhisk/pull/4430\") which strategy do you have in mind? do you also want to exploit features of later docker versions instead of staying on what docker 1.12 provides? i would like to synchronize on this...". Below this is a response from "style95" at 3:33 PM, which says "Hi", "Yes", and "I think we anyway need to update the docker version to the latest one in the future (edited)". At the bottom, there is a text input field with the placeholder "Message Sven Lange-Last" and icons for attachments, mentions, and emojis.

IBM쪽에서

방향 논의를 위해 먼저 연락 음

요즘은?

The screenshot shows a Slack interface on a web browser. The browser's address bar displays the URL `https://openwhisk-team.slack.com/messages/DG...`. The top navigation bar includes various application icons such as Connect, 계산, TTS등록, 드라이브, 예약, 디자인, 일정, Chat, Slack, Contr, OpenWhisk, and Lambda. The left sidebar shows the user's profile as 'OpenWhisk style95' and a list of direct messages including Slackbot, style95 (you), chetanm, dgrove, kpavel, Mingyu Zhou (highlighted), mrutkowski, Nikolai Starodubtcev, rr, Sven Lange-Last, and vincent_hou.

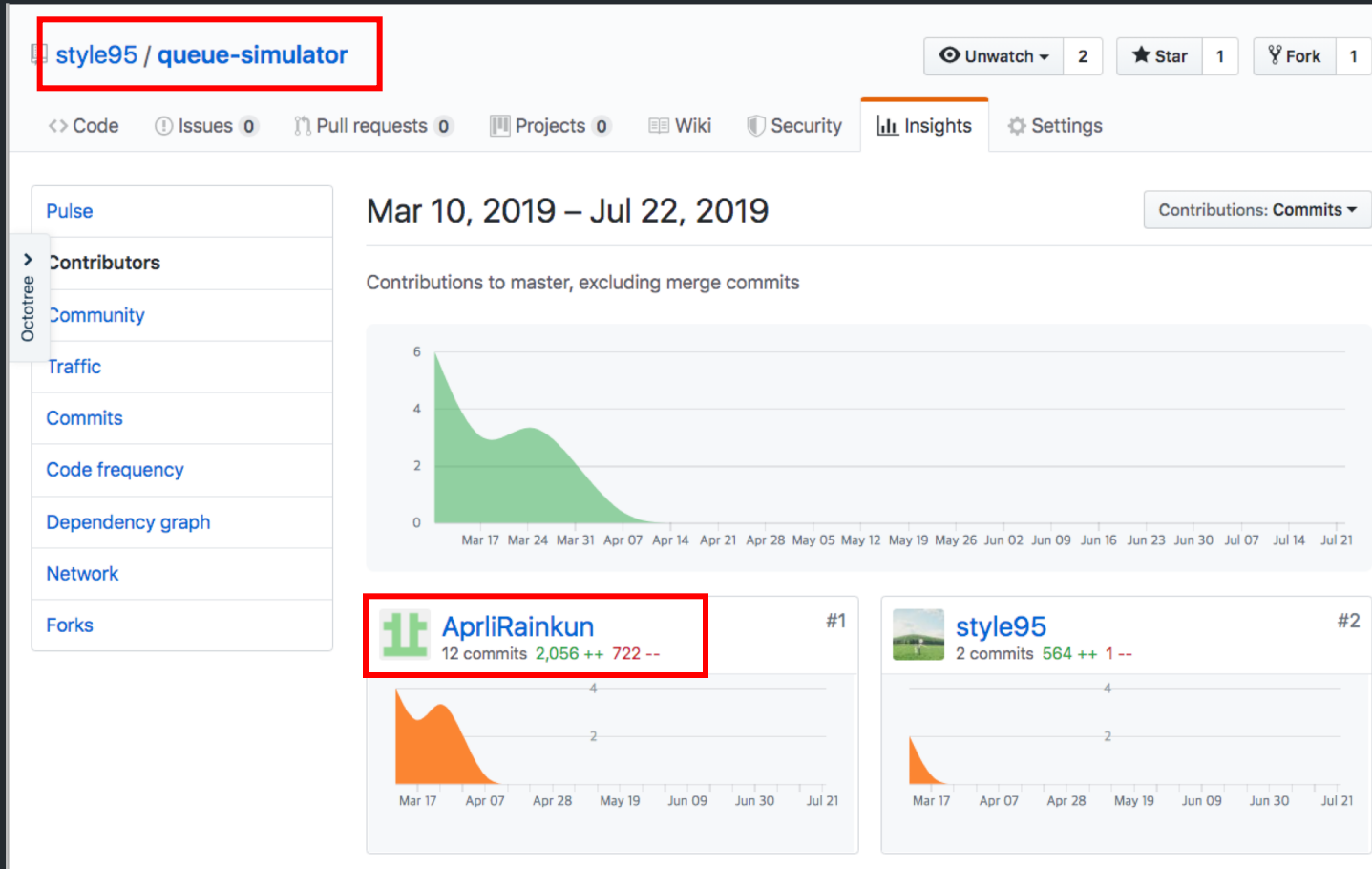
The main chat area shows a conversation with 'Mingyu Zhou' who is currently 'away'. The messages are as follows:

- Thursday, April 18th**
 - style95** 5:48 PM: Hi Mingyu. Any good news do you have?
- Tuesday, May 7th**
 - Mingyu Zhou** 9:23 AM: Hi Dominic, sorry for the inactivity. Recently, I've been working with my thesis. It takes me a lot of time. And I'm afraid that I would require another month for my thesis. Would you mind if I shift away for a while? I'll be back for the open source community as soon as I finish the paper work and see if there is anything I can bring to openwhisk from my research.
 - style95** 10:13 AM: (Message partially visible)

The input field at the bottom shows a plus sign icon, the text 'Message Mingyu Zhou', and icons for emojis, mentions, and reactions.

상하이 교통대 학생으로부터의 연락

요즘은?



Remote로 협업

algorithm-simulator/src/main/scala/style95/StatusLogger.scala

```
...   ...   @@ -30,6 +32,7 @@ class StatusLogger(outDir: String) extends Actor with Act  
30   32  
31   33     private var snapshots = ArrayBuffer.empty[QueueSnapshot]  
32   34     private var records = ArrayBuffer.empty[ActivationRecord]  
35   +   private var predictions = ArrayBuffer.empty[PredictedTps]
```



style95 on 2 Apr Owner



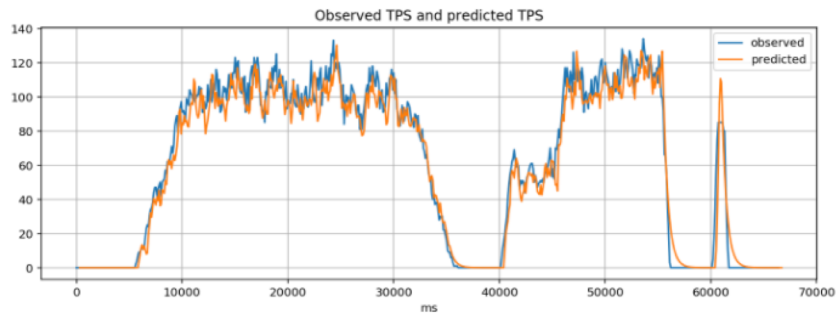
Is this to compare actual data and prediction data?



AprliRainkun on 2 Apr Author Contributor



Yes, the predictions are collected to see how they differ from the actual load.



You may want to have a look at the notebook. It shows some simulation status and metrics.

<https://github.com/style95/queue-simulator/blob/07f7ed7c2610f371fe4144dc06300a075b59661a/log-visualizer/visualizer.ipynb>



1



style95 on 3 Apr Owner



Cool~!




Reply...

Resolve conversation

다양한 논의 및 리뷰

Naver Cloud Platform



로그인 회원가입 Languages

소개 서비스 솔루션 요금 고객지원·FAQ 파트너

사용자 가이드 Console

서비스

Compute, Storage, Networking, Database, Management, Security 등 다양한 클라우드 서비스를 만나보세요

[전체 서비스 목록 보기](#)

Compute

- Server
- SSD Server
- GPU Server
- Virtual Dedicated Server
- Bare Metal Server
- Auto Scaling
- Cloud Functions**
- HPC(High Performance Computing)

Storage

- Object Storage **Update**
- File Storage
- Block Storage
- NAS
- Backup
- Data Teleporter

Networking

- Load Balancer
- DNS
- Global Internet Service
- CDN **Update**
- Global CDN **Update**
- IPsec VPN
- NAT Gateway
- Global Route Manager

Database

- Cloud DB for MySQL
- Cloud DB for Redis
- Cloud DB for MSSQL
- MSSQL
- MySQL
- CUBRID
- Redis
- PostgreSQL
- MariaDB

Security

- Secure Zone **Update**
- Basic Security
- ACG
- App Safer
- Site Safer
- File Safer
- Security Monitoring
- SSL VPN
- Web Security Checker **Update**
- System Security Checker
- App Security Checker
- Compliance Guide
- KMS(Key Management Service)

AI Service

- Clova Speech Recognition(CSR)
- Clova Speech Synthesis(CSS)
- Clova Face Recognition(CFR)
- Papago SMT
- Papago NMT
- Papago Korean Name Romanizer
- TensorFlow Server
- TensorFlow Cluster
- Chatbot **Update**

Application Service

- GeoLocation
- Maps
- CAPTCHA
- nShortURL
- Simple & Easy Notification Service(SENS) **Update**
- API Gateway **Update**
- Search Trend
- RabbitMQ
- Simple RabbitMQ Service
- Cloud Outbound Mailer **Update**
- Pinpoint **New**

Media

- Live Transcoder
- VOD Transcoder
- Image Optimizer

Dev Tools

- Jenkins
- SourceCommit

Business Application

- WORKPLACE [g]
- WORKPLACE [k]

요즘은?

Add `binding` annotation to record an action path not resolved #4211

Merged style95 merged 9 commits into apache:master from upgle:feature/add-origin-path on 13 May

Conversation 23 Commits 9 Checks 0 Files changed 11 +249 -65

upgle commented on 9 Jan • edited

Description

If the user invokes an action in a package binding, they can't know a package binding path from which action is invoked. because the current activation structure only records the resolved action path.

for example, suppose we have the following entities:

- package : pkg1
 - action : pkg1/action1
- package pkg2 bind pkg1
- package pkg3 bind pkg1

If user invokes the pkg2/action1 action and the pkg3/action1 action, all path annotations of invoked action in binding packages are saved as namespace/pkg1/action1.

```
"annotations": [  
  {  
    "key": "path",  
    "value": "namespace/pkg1/action1"  
  },  
]
```

Reviewers: rabbah, style95 (checked)

Assignees: rabbah

Labels: controller, enhancement, review

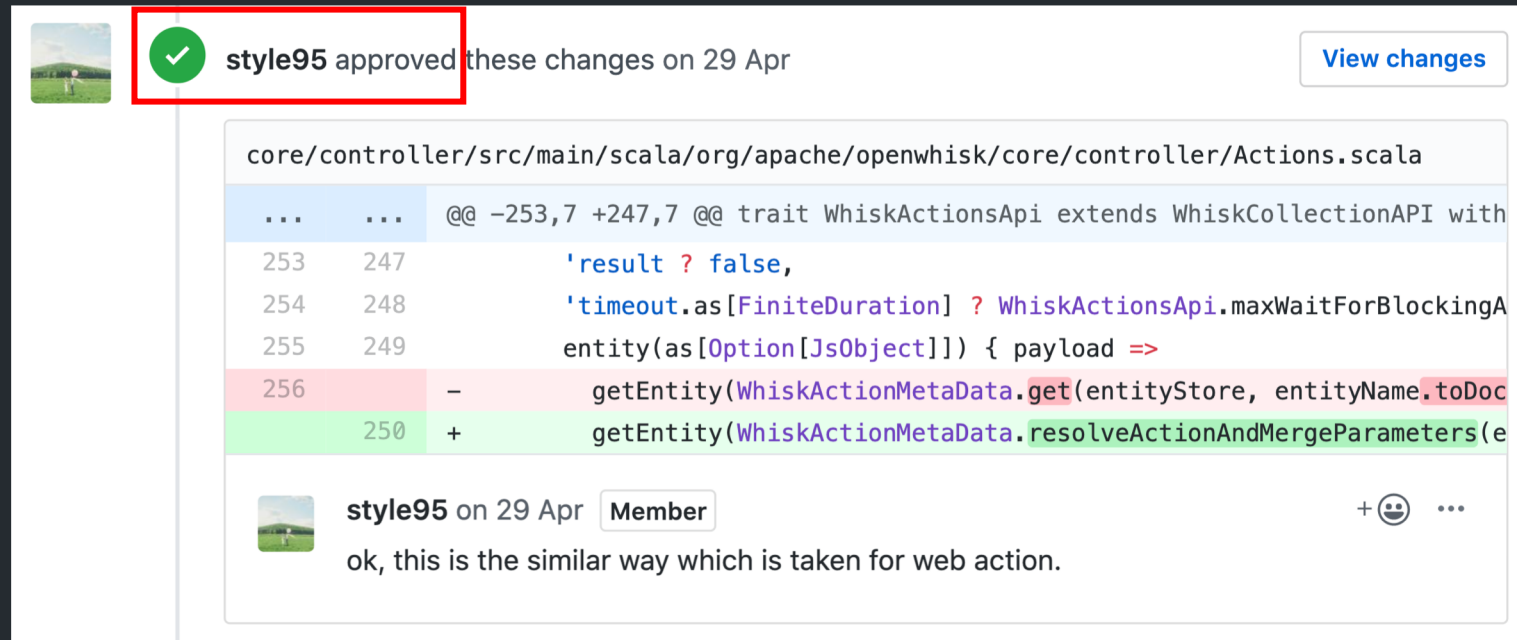
Projects: None yet

Milestone: No milestone

Notifications: Customize

Unsubscribe


요즘은?



The screenshot shows a GitHub pull request interface. At the top, a user profile for 'style95' is highlighted with a red box, next to a green checkmark icon and the text 'style95 approved these changes on 29 Apr'. To the right is a 'View changes' button. Below this is a code diff for the file 'core/controller/src/main/scala/org/apache/openwhisk/core/controller/Actions.scala'. The diff shows a change from line 256 to line 250, where the method 'getEntity(WhiskActionMetadata.get(entityStore, entityName.toDoc))' is replaced with 'getEntity(WhiskActionMetadata.resolveActionAndMergeParameters(e...))'. Below the code diff is a comment from 'style95' on 29 Apr, with a 'Member' badge, stating 'ok, this is the similar way which is taken for web action.' There are also reaction and more options icons to the right of the comment.


core/controller/src/main/scala/org/apache/openwhisk/core/controller/Actions.scala

```
...    ...    @@ -253,7 +247,7 @@ trait WhiskActionsApi extends WhiskCollectionAPI with
253    247        'result ? false,
254    248        'timeout.as[FiniteDuration] ? WhiskActionsApi.maxWaitForBlockingA
255    249        entity(as[Option[JsonObject]]) { payload =>
256    -        getEntity(WhiskActionMetadata.get(entityStore, entityName.toDoc
250    +        getEntity(WhiskActionMetadata.resolveActionAndMergeParameters(e
```



 style95 on 29 Apr Member + 😊 ...

ok, this is the similar way which is taken for web action.

요즘은?

 **style95** commented on 7 May Member + 😊 ...

I would merge this in **72 hours** if there is no objection based on silent consent.

  **style95** merged commit **7a304c1** into `apache:master` on 13 May View details Revert

2 checks passed

Apache Guidelines

- 중요한 의사 결정 전에 최소 48시간 ~ 72시간의 시간을 두어야한다.
- 최대 72시간 동안 반대가 없으면, 암묵적인 동의로 간주한다

느낀점

- **다이나믹한 개발 경험**
 - 영국, 독일, 미국 등, 전 세계의 개발자들과 함께 커뮤니케이션
 - Apache 프로젝트에 내 코드가 들어가는 경험
- 누구에게나 평등한 기회: 코드로만 표현되고 평가받음
- 장소에 구애 받지 않을 수 있음
- 다양한 외부 발표 기회

START

NOW



좋은점?

Invitation to become Apache OpenWhisk Committer and PPMC member: Dominic Kim



받은편지함 x



Rodric Rabbah <rodric@gmail.com>

나, private에게 ▾

4월 6일 (토) 오후 8:51



Hello Dominic,

The Apache OpenWhisk Project Management Committee (PMC) hereby offers you committer privileges to the project as well as a membership on the Podling Project Mgmt. Committee (PPMC). Please read both parts of this email below.

Committer privileges are offered on the understanding that you'll use them reasonably and with common sense. We like to work on trust rather than unnecessary constraints.

Being a committer enables you to more easily make changes without needing to go through the patch submission process.

Being a committer does not require you to participate any more than you already do. It does **tend to make one even more committed**. You will probably find that **you spend more time** here.

커미터가 되면, 훨씬 더 많이 프로젝트에 헌신하는 경향이 있다.

너는 더 많은 시간을 프로젝트에 할애하게 될 것이다.

좋은점?



김동경 <dominic.kim@navercorp.com>

style95, dominic.kim에게 ▾

감사합니다
김동경 드림

이 메일은 나눔글꼴로 작성되었습니다.

김동경 KIM DONG KYOUNG
PaaS

경기도 성남시 분당구 불정로 6 네이버
Mobile 01026962181
Email dominic.kim@navercorp.com

NAVER

보낸사람: 김동경 <dominic.kim@navercorp.com>

받는사람: style95@apache.org

참조: dominic.kim@navercorp.com

날짜: 2019. 4. 15. 오후 5:53

제목: test

발송 도메인:: apache.org

인증기관: navercorp.com

보안: apache.org에서 이 메일을 암호화하지 않았습니다. [자세히 알아보기](#)

: Google 맵식에 따르면 중요한 메일입니다.

좋은점?

To Apache communities > 받은편지함 x



Adam Alami <adaa@itu.dk>

dev@brpc.apache.org, dev@jackrabbit.apache.org, dev@shiro.apache.org, dev@bval.apache.org, dev@calcite.apache.org, dev@singa.incubator.apache.org, dev@camel.apache.org, dev@ca

Dear Apache communities,

I'm conducting a survey part of my PhD studies to understand Pull Requests assessment in open source communities. Your participation is anonymous. The link to the survey below:

<https://icse2020.limequery.com/913965?lang=en>

Please help and participate. It takes less than 10 mins. I will share the results of the survey with the Apache communities as soon as they become available

Kind regards

Adam Alami

PhD Fellow

IT UNIVERSITY OF COPENHAGEN

Rued Langgaards Vej 7

DK-2300 Copenhagen S

4D04


E-mail: adaa@itu.dk


PHONE (+45) 72 18 50 71

www.itu.dk



IT UNIVERSITY OF COPENHAGEN


좋은점?



프로필 항목 등록 ▼ ... 

김동경
PaaS Software Engineer at Naver, Committer & PMC member of Apache OpenWhisk
대한민국 서울 관악구 · 1촌 92명 · [연락처](#)

 The Apache Software Foundation
 중앙대학교

소개 

Serverless platform devops
Apache Openwhisk Committer and PMC member,
Function as a Service,
PaaS,

Thank You! 👍

Q & A