

# 3장. 쿠버네티스 모니터링

Mastering kubernetes

# 테스트 환경 변경

회사 테스트 서버가 부족해서 네이버 클라이트 무료 쿠폰 활용

  
NAVER  
CLOUD PLATFORM

Console

Region 한국 / KR 한국어

All Products +

Dashboard

My Products 0 EDIT -

Recently Viewed

Server -

Server

Bare Metal Server

Server / Server

Server 1

+ 서버 생성

상품 더 알아보기

X 다운로드

새로고침

▼

개선안내 [Server] 서버 생성시, 서버명 자동 생성 ... 더보기

시작

정지

재시작

반납

강제 정지

서버 접속 콘솔

모니터링

포트 포워딩 설정

서버 관리 및 설정 변경 ▼

필터 Zone: ✓ 전체 스토리지: ✓ 전체 서버 그룹: ✓ 없음 상태: ✓ 전체 ▼

<input type="checkbox"/>	서버 이름	서버 이미지 이름	서버 사양	상태	비공인 IP	공인 IP	ZONE	모니터링	Network 모니터링
<input type="checkbox"/>	openshift01	ubuntu-16.04...	[Standard] 4vCPU,...	● 정지	10.41.84.222	106.10.37.86	KR-2	기본	해제 ▼

« < 1 > »

# 우분투 16.04 1대에 설치

- <https://computingforgeeks.com/how-to-setup-openshift-origin-on-ubuntu/>

```
$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
```

```
$ sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable"
```

```
$ sudo apt update && sudo apt -y install docker-ce
```

```
$ wget https://github.com/openshift/origin/releases/download/v3.11.0/openshift-origin-client-tools-v3.11.0-0cbc58b-linux-64bit.tar.gz
```

```
$ tar xvf openshift-origin-client-tools*.tar.gz
```

```
$ cd openshift-origin-client*/
```

```
$ sudo mv oc kubectrl /usr/local/bin/
```

```
$ sudo vi /etc/docker/daemon.json
```

```
{  
  "insecure-registries" : [ "172.30.0.0/16" ]  
}
```

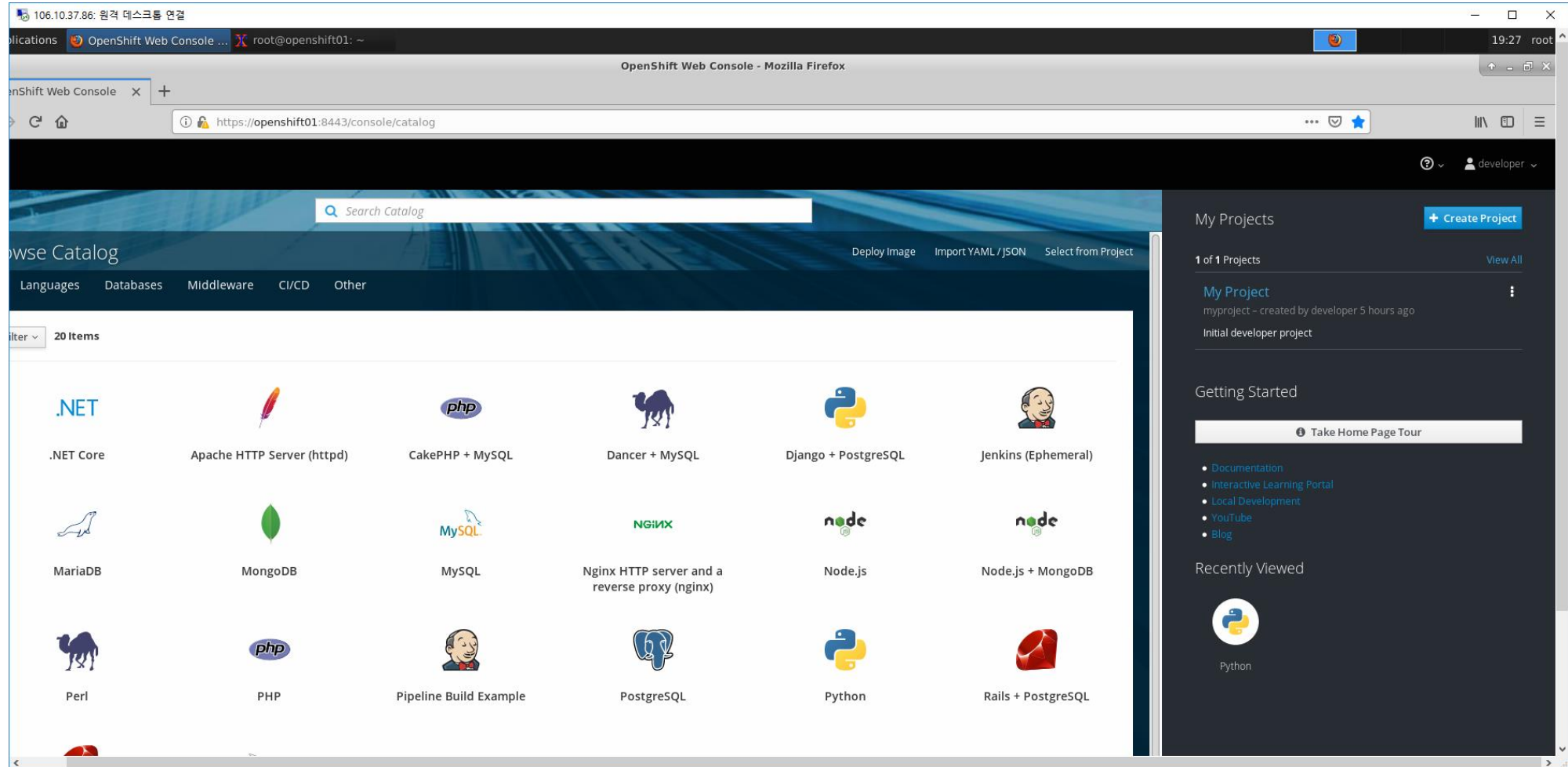
```
$ sudo systemctl restart docker
```

```
$ oc cluster up --routing-suffix=10.41.84.222.xip.io --public-hostname=openshift01
```

# Openshift 실행 확인

```
root@openshift01: ~  
.  
I0326 19:25:53.666798      2079 interface.go:26] Installing "sample-templates/jenkins pipeline ephemeral" ...  
I0326 19:25:53.666855      2079 apply_list.go:67] Installing "sample-templates/jenkins pipeline ephemeral"  
I0326 19:25:53.666948      2079 apply_list.go:67] Installing "sample-templates/nodejs quickstart"  
I0326 19:25:53.666995      2079 apply_list.go:67] Installing "sample-templates/sample pipeline"  
I0326 19:25:53.667121      2079 apply_list.go:67] Installing "sample-templates/postgresql"  
I0326 19:25:53.667126      2079 apply_list.go:67] Installing "sample-templates/mongodb"  
I0326 19:25:53.667267      2079 apply_list.go:67] Installing "sample-templates/mariadb"  
I0326 19:25:53.667427      2079 apply_list.go:67] Installing "sample-templates/mysql"  
I0326 19:25:53.667587      2079 apply_list.go:67] Installing "sample-templates/dancer quickstart"  
I0326 19:25:53.667884      2079 apply_list.go:67] Installing "sample-templates/cakephp quickstart"  
I0326 19:25:53.667921      2079 apply_list.go:67] Installing "sample-templates/django quickstart"  
I0326 19:25:53.668867      2079 apply_list.go:67] Installing "sample-templates/rails quickstart"  
I0326 19:25:58.904004      2079 interface.go:41] Finished installing "sample-templates/mongodb" "sample-templates/mariadb" "sample-templates/mysql" "sample-templates/dancer quickstart" "sample-templates/nodejs quickstart" "sample-templates/sample pipeline" "sample-templates/postgresql" "sample-templates/cakephp quickstart" "sample-templates/django quickstart" "sample-templates/rails quickstart" "sample-templates/jenkins pipeline ephemeral"  
I0326 19:25:59.323732      2079 interface.go:41] Finished installing "openshift-web-console-operator" "centos-imagestreams" "openshift-image-registry" "openshift-router" "sample-templates" "persistent-volumes"  
Server Information ...  
OpenShift server started.  
  
The server is accessible via web console at:  
https://openshift01:8443  
  
root@openshift01:~# [2~
```

# Openshift 웹관리도구 접속



# 실행된 서비스들

The screenshot displays the OpenShift console interface. At the top, the 'okd' logo is on the left, and notification, help, and user ('developer') icons are on the right. Below this is a header bar with a hamburger menu, 'My Project' with a dropdown arrow, a 'Search Catalog' input field, and an 'Add to Project' button. A left sidebar contains navigation links: Overview, Applications, Builds, Resources, Storage, Monitoring, and Catalog. The main content area shows a list of deployed services. At the top of this area are filters for 'Name' (with a dropdown and 'Filter by name' text) and 'List by' (set to 'Application'). The list contains two entries. The first entry is for the 's2i-minimal-notebook' application, with a URL 'http://openshift01' and a deployment configuration 's2i-minimal-notebook, #1' showing '1 pod'. The second entry is for the 'testhttp' application, with a URL 'http://testhttp-myproject.127.0.0.1.nip.io' and a deployment configuration 'testhttp, #1' showing '1 pod'. Each entry has a chevron icon to expand details and a vertical ellipsis for more options.

Filter	Name	Filter by name	List by	Application
APPLICATION	s2i-minimal-notebook			<a href="http://openshift01">http://openshift01</a>
>	DEPLOYMENT CONFIG	s2i-minimal-notebook, #1	1 pod	
APPLICATION	testhttp			<a href="http://testhttp-myproject.127.0.0.1.nip.io">http://testhttp-myproject.127.0.0.1.nip.io</a>
>	DEPLOYMENT CONFIG	testhttp, #1	1 pod	

# 서비스들 모니터링

okd

My Project

Search Catalog

Add to Project

Overview

Applications

Builds

Resources

Storage

Monitoring

Catalog

Monitoring

All Filter by name Hide older resources

Pods

s2i-minimal-notebook-1-l962g

created 3 hours ago

Running - 1/1 ready

getwarped/s2i-minimal-notebook d9b82f1

testhttp-1-zcl6s

created 5 hours ago

Running - 1/1 ready

myproject/testhttp eea54b0

Deployments

s2i-minimal-notebook-1

created 3 hours ago

1 pod

getwarped/s2i-minimal-notebook d9b82f1

testhttp-1

created 5 hours ago

1 pod

myproject/testhttp eea54b0

Stateful Sets

There are no stateful sets in this project.

Events 3 warnings View Details

Pods/testhttp-1-zcl6s

Started container

Started

5 minutes ago

Pods/testhttp-1-zcl6s

pulling image "172.30.1.1:5000/myproject/..." 2 times in the last 5 minutes

Pulling

5 minutes ago

Pods/testhttp-1-zcl6s

Successfully pulled image "172.30.1.1:5000/..."

Pulled

5 minutes ago

Pods/testhttp-1-zcl6s

Created container

Created

5 minutes ago

Pods/s2i-minimal-notebook-1-l962g

Started container

Started

5 minutes ago

Pods/testhttp-1-zcl6s

Back-off pulling image "172.30.1.1:5000/m..."

Back-off

5 minutes ago

Pods/testhttp-1-zcl6s

Error: ImagePullBackOff

Failed

5 minutes ago

Pods/s2i-minimal-notebook-1-l962g

Successfully pulled image "getwarped/s2i-..."

Pulled

5 minutes ago

Pods/s2i-minimal-notebook-1-l962g

Created container


Created

5 minutes ago

# Openshift에 Jupyter 추가

- <https://blog.openshift.com/jupyter-openshift-using-openshift-data-analytics/>
- `oc create -f https://raw.githubusercontent.com/getwarped/s2i-minimal-notebook/master/image-streams.json`


My Project > Add to Project > Catalog > Jupyter Notebook



## Jupyter Notebook


Build and deploy a custom Jupyter Notebook image with pre-bundled notebooks, data files and Python packages.

Version: latest


\* Name 

Identifies the resources created for this application.

\* Git Repository URL

Sample repository for s2i-minimal-notebook: <https://github.com/getwarped/sample-notebooks.git> [Try it ↗](#)

[Show advanced routing, build, deployment and source options](#) 

CreateCancel