

# Smart Cities R6 Test

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## Introduction

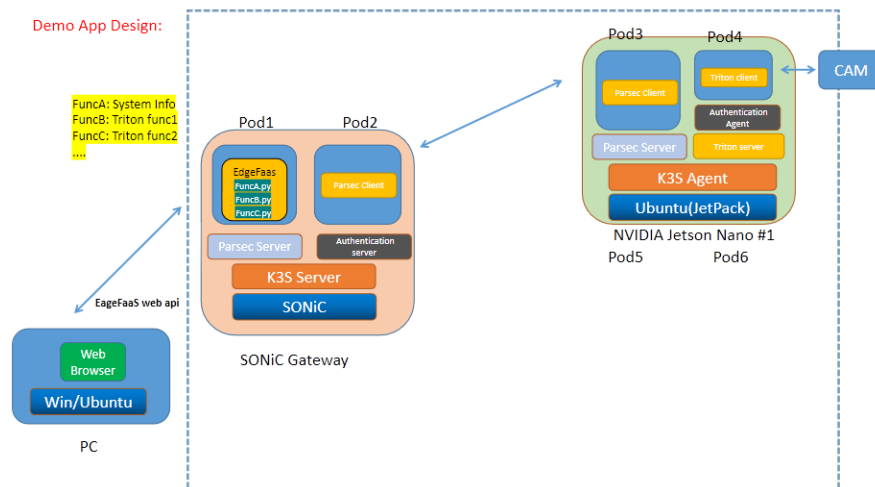
This document covers Test Deployment Environment and Demo App on Smart Cities Blueprint.

## Akarino Test Group Information

N/A

## Overall Test Architecture

PC use curl command line tool to access EdgeFaaS APIs.



## Software Version

Ubuntu 18.04 LTS / Mac 10.15 / Windows 10

curl 7.79.1

## Devices Under Test

centec-7127:

CPU(s): 2

Mem: 4Gb

Nvidia Nano

CPU(s): 4

Mem: 2Gb

## Demo App Test

### • Authentication k3s node

Below show a k3s agent join k3s server

```
admin@sonic:~$ sudo kubectl get nodes
NAME      STATUS   ROLES    AGE   VERSION
sonic     Ready    control-plane,master   11h   v1.22.7+k3s1
admin@sonic:~$ sudo cat /var/lib/rancher/k3s/server/node-token
K10ba418d9437ccb6e1a3c27acd57abb9915d3879e6d72e38b04e8d0abcaa82752::server:9446ca7364eb2561b7f44ca1696b04e4
admin@sonic:~$ sudo kubectl get nodes
NAME      STATUS   ROLES    AGE   VERSION
sonic     Ready    control-plane,master   11h   v1.22.7+k3s1
u0u0-nano Ready    <none>   119s   v1.22.7+k3s1
```

NodeAuthServer will check the node's validity. Check it log file /var/log/NodeAuthServer.log

Below show NodeAuthServer find an invalid node, then remove it from the k3s server.

```
admin@sonic:~$ sudo cat /var/log/NodeAuthServer.log
2022-03-12 20:38:41 info workSrc/main.go:26 Parsec init SUCCESS
2022-03-12 20:38:51 info workSrc/main.go:43 Find new node to be verify:192.168.0.118
2022-03-12 20:38:51 error workSrc/node.go:173 Verify fail:192.168.0.118 reason:Agent Not Ready
2022-03-12 20:38:51 info workSrc/node.go:174 Removing node from k3s server...
2022-03-12 20:39:11 info workSrc/node.go:200 Remove done
admin@sonic:~$
```

Below show NodeAuthServer find a valid node. keep the node in k3s server.

```
admin@sonic:~$ sudo kubectl get nodes
NAME      STATUS   ROLES    AGE   VERSION
sonic     Ready    control-plane,master   13h   v1.22.7+k3s1
u0u0-nano Ready    <none>   31s   v1.22.7+k3s1
admin@sonic:~$ cat /var/log/NodeAuthServer.log
2022-03-12 20:38:41 info workSrc/main.go:26 Parsec init SUCCESS
2022-03-12 20:38:51 info workSrc/main.go:43 Find new node to be verify:192.168.0.118
2022-03-12 20:38:51 error workSrc/node.go:173 Verify fail:192.168.0.118 reason:Agent Not Ready
2022-03-12 20:38:51 info workSrc/node.go:174 Removing node from k3s server...
2022-03-12 20:39:11 info workSrc/node.go:200 Remove done
2022-03-12 20:55:07 warn workSrc/node.go:83 Node is Ready and ping timeout:192.168.0.118
2022-03-12 20:55:07 info workSrc/main.go:43 Find new node to be verify:192.168.0.118
2022-03-12 20:55:07 info workSrc/main.go:54 verify pass:192.168.0.118
admin@sonic:~$
```

### • EdgeFaas API sysinfo

\$ curl 192.168.0.118:8888/sysinfo

----- Nodes -----

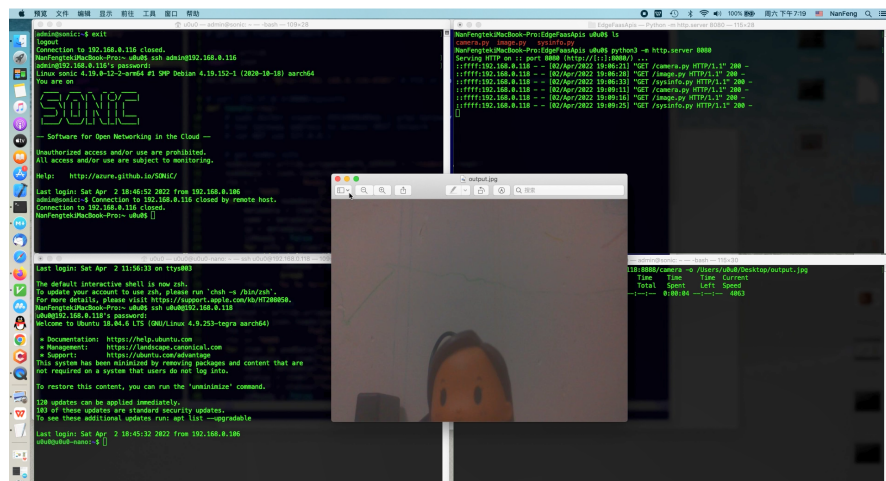
NAME	IP	STAUTS
sonic	192.168.0.116	TRUE
u0u0-nano	192.168.0.118	TRUE

----- Pods -----

NAME	HostIP	STAUTS
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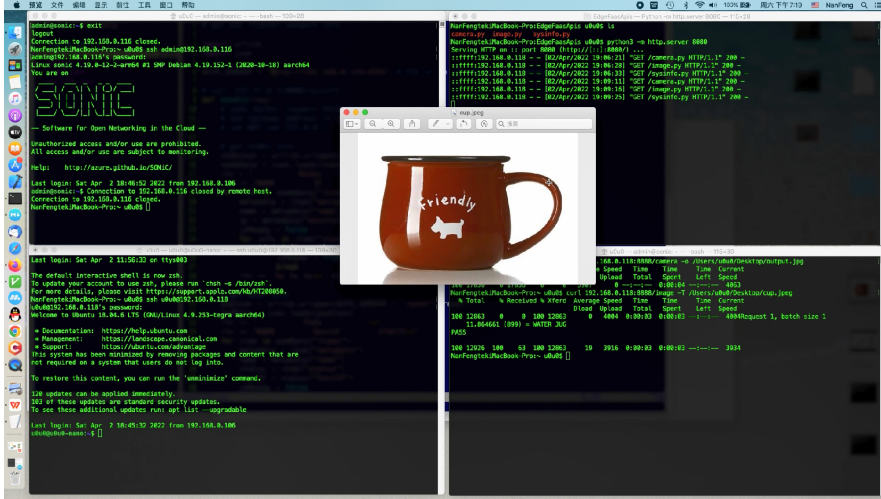
### • EdgeFaas API get camera image

\$ curl 192.168.0.118:8888/camera -o output.jpg



### • EdgeFaas API image recognition

\$ curl 192.168.0.118:8888/image -T cup.jpg



## Test Dashboards

Single pane view of how the test score looks like for the Blue print.

Total Tests	Test Executed	Pass	Fail	In Progress
4	4	4	0	0

## Additional Testing

N/A

## Bottlenecks/Errata

N/A