

클라우드 서비스(IaaS/PaaS) 통합 운영·관리 기술 개발 및 SaaS 모니터링 기능 개발

인터페이스 정의서

모니터링

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개 정 이 력

| 버전 | 작성일 | 변경내용[[1]](#footnote-1) | 작성자 | 승인자 |
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| 1.0 | 2018.01.12 | 최초작성 | 이우송 | 정기봉 |
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1. 인터페이스 목록

| **인터페이스ID** | **인터페이스 명** | **Route** |
| --- | --- | --- |
| IF-MONT-021 | openstack\_summary\_view | /v1/openstack/summary |
| IF-MONT-022 | openstack\_project\_summary\_view | /v1/openstack/project/:project\_id/summary |
| IF-MONT-023 | openstack\_node\_system\_info\_collect |  |
| IF-MONT-024 | openstack\_inst\_system\_info\_collect |  |
| IF-MONT-025 | openstack\_node\_message\_info\_collect |  |
| IF-MONT-026 | openstack\_node\_cpu\_usage\_view | /v1/openstack/:nodename/cpu/usage |
| IF-MONT-027 | openstack\_node\_memory\_usage\_view | /v1/openstack/:nodename/mem/usage |

1. create\_pod

|  |  |  |  |
| --- | --- | --- | --- |
| **인터페이스 ID** |  | | |
| **개요** | Create pod | | |
| From | UI | To | Kubernetes\_api |

* 1. Request
     1. Route

|  |
| --- |
| POST /api/v1/namespaces/:namespace/pods |

* + 1. Parameters

| **Name** | **Description** | **Valid Values** | **Example Values** |
| --- | --- | --- | --- |
| Namespace | target namespace | text | default |

* + 1. Body

|  |
| --- |
| {  "apiVersion":"v1",  "kind":"Pod",  "metadata":{  "labels":{  "app":"hello-node"  },  "name":"hello-node",  "namespace":"default"  },  "spec":{  "containers":[  {  "image":"springio/gs-spring-boot-docker",  "name":"gs-spring-boot-docker",  "ports":[  {  "containerPort":8080,  "name":"nodejs-port"  }  ]  }  ]  }  } |

* + 1. Kube File

|  |
| --- |
| apiVersion: v1  kind: Pod  metadata:  name: hello-node  labels:  app: hello-node  spec:  containers:  - name: gs-spring-boot-docker  image: springio/gs-spring-boot-docker  ports:  - name: nodejs-port  containerPort: 8080 |

* + 1. Kubectl cli

|  |
| --- |
| $ kubectl create -f helloworld.yml |

* + 1. cURL

N/A

* 1. Response
     1. Status

201 OK

* + 1. Body

|  |
| --- |
| {  "kind":"Pod",  "apiVersion":"v1",  "metadata":{  "name":"hello-node",  "namespace":"default",  "selfLink":"/api/v1/namespaces/default/pods/hello-node",  "uid":"0f4774ec-8e34-11e8-bc72-fa163eed29a0",  "resourceVersion":"18604",  "creationTimestamp":"2018-07-23T04:51:28Z",  "labels":{  "app":"hello-node"  }  },  "spec":{  "volumes":[  {  "name":"default-token-snd7w",  "secret":{  "secretName":"default-token-snd7w",  "defaultMode":420  }  }  ],  "containers":[  {  "name":"gs-spring-boot-docker",  "image":"springio/gs-spring-boot-docker",  "ports":[  {  "name":"nodejs-port",  "containerPort":8080,  "protocol":"TCP"  }  ],  "resources":{  },  "volumeMounts":[  {  "name":"default-token-snd7w",  "readOnly":true,  "mountPath":"/var/run/secrets/kubernetes.io/serviceaccount"  }  ],  "terminationMessagePath":"/dev/termination-log",  "terminationMessagePolicy":"File",  "imagePullPolicy":"Always"  }  ],  "restartPolicy":"Always",  "terminationGracePeriodSeconds":30,  "dnsPolicy":"ClusterFirst",  "serviceAccountName":"default",  "serviceAccount":"default",  "securityContext":{  },  "schedulerName":"default-scheduler"  }  } |

1. Get\_pods

|  |  |  |  |
| --- | --- | --- | --- |
| **인터페이스 ID** |  | | |
| **개요** | Get pod List | | |
| **From** | UI | To | Kubernetes api |

* 1. Request

* + 1. Route

|  |
| --- |
| GET /api/v1/namespaces/:namespace/pods?limit=500 |

* + 1. Parameters

| **Name** | **Description** | **Valid Values** | **Example Values** |
| --- | --- | --- | --- |
| namespace | target namespace | text | default |
| limit | paging size | number | 500 |

* + 1. Body

N/A

* + 1. Headers

|  |
| --- |
| Authorization: Bearer FAGfP91MtRAqEuMLWHNQZf13K6IKRi |

* + 1. cURL

N/A

* 1. Response
     1. Status

200 OK

* + 1. Body

|  |
| --- |
| {  "kind":"PodList",  "apiVersion":"v1",  "metadata":{  "selfLink":"/api/v1/namespaces/default/pods",  "resourceVersion":"24658"  },  "items":[  {  "metadata":{  "name":"hello-node",  "namespace":"default",  "selfLink":"/api/v1/namespaces/default/pods/hello-node",  "uid":"0f4774ec-8e34-11e8-bc72-fa163eed29a0",  "resourceVersion":"18632",  "creationTimestamp":"2018-07-23T04:51:28Z",  "labels":{  "app":"hello-node"  }  },  "spec":{  "volumes":[  {  "name":"default-token-snd7w",  "secret":{  "secretName":"default-token-snd7w",  "defaultMode":420  }  }  ],  "containers":[  {  "name":"gs-spring-boot-docker",  "image":"springio/gs-spring-boot-docker",  "ports":[  {  "name":"nodejs-port",  "containerPort":8080,  "protocol":"TCP"  }  ],  "resources":{  },  "volumeMounts":[  {  "name":"default-token-snd7w",  "readOnly":true,  "mountPath":"/var/run/secrets/kubernetes.io/serviceaccount"  }  ],  "terminationMessagePath":"/dev/termination-log",  "terminationMessagePolicy":"File",  "imagePullPolicy":"Always"  }  ],  "restartPolicy":"Always",  "terminationGracePeriodSeconds":30,  "dnsPolicy":"ClusterFirst",  "serviceAccountName":"default"  }  }  ]  } |

1. Get\_pod Detail

|  |  |  |  |
| --- | --- | --- | --- |
| **인터페이스 ID** |  | | |
| **개요** | Get pod Detail | | |
| **From** | UI | To | Kubernetes api |

* 1. Request
     1. Route

|  |
| --- |
| GET /api/v1/namespaces/:namespace/pods/:podName |

* + 1. Parameters

| **Name** | **Description** | **Valid Values** | **Example Values** |
| --- | --- | --- | --- |
| namespace | target namespace | text | Default |
| podName | Pod Name | text | Hello-pod |

* + 1. Body

N/A

* + 1. Headers

|  |
| --- |
| Authorization: Bearer FAGfP91MtRAqEuMLWHNQZf13K6IKRi |

* + 1. cURL

N/A

* 1. Response
     1. Status

200 OK

* + 1. Body

|  |
| --- |
| {  "kind":"PodList",  "apiVersion":"v1",  "metadata":{  "selfLink":"/api/v1/namespaces/default/pods",  "resourceVersion":"24658"  },  "items":[  {  "metadata":{  "name":"hello-node",  "namespace":"default",  "selfLink":"/api/v1/namespaces/default/pods/hello-node",  "uid":"0f4774ec-8e34-11e8-bc72-fa163eed29a0",  "resourceVersion":"18632",  "creationTimestamp":"2018-07-23T04:51:28Z",  "labels":{  "app":"hello-node"  }  },  "spec":{  "volumes":[  {  "name":"default-token-snd7w",  "secret":{  "secretName":"default-token-snd7w",  "defaultMode":420  }  }  ],  "containers":[  {  "name":"gs-spring-boot-docker",  "image":"springio/gs-spring-boot-docker",  "ports":[  {  "name":"nodejs-port",  "containerPort":8080,  "protocol":"TCP"  }  ],  "resources":{  },  "volumeMounts":[  {  "name":"default-token-snd7w",  "readOnly":true,  "mountPath":"/var/run/secrets/kubernetes.io/serviceaccount"  }  ],  "terminationMessagePath":"/dev/termination-log",  "terminationMessagePolicy":"File",  "imagePullPolicy":"Always"  }  ],  "restartPolicy":"Always",  "terminationGracePeriodSeconds":30,  "dnsPolicy":"ClusterFirst",  "serviceAccountName":"default"  }  }  ]  } |

1. 변경 내용: 변경이 발생되는 위치와 변경 내용을 자세히 기록(장/절과 변경 내용을 기술한다.) [↑](#footnote-ref-1)