**K8 Deployment Step Document**

**Objective:**

Deploy the application using Kubernetes ymal configuration.

The name **Kubernetes** originates from Greek, meaning *helmsman* or *pilot*, and is the root of *governor* and [cybernetic](http://www.etymonline.com/index.php?term=cybernetics). *K8s* is an abbreviation derived by replacing the 8 letters “ubernete” with “8”.

**K8 Deployment Step Json:**

{

"workflows": [

{

"name": "k8-deploy",

"id": 200,

"trigger": "rest",

"expression": "k8deploy",

"method": "GET",

"steps": [

{

"type": "start",

"id": 1,

"next": {

"start": "start"

}

},

{

"base\_url": "",

"token": "",

"action": "",

"data": "",

"k8\_plugin\_name": "k8deploy",

"value\_type": "hb",

"type": "k8-deploy",

"id": "start",

"next": {

"success": "k8-deploy-success",

"failure": "hangup"

}

},

{

"variable\_name": "k8-deploy-value",

"http\_response\_code": "200",

"response\_content\_type": "text/html",

"value\_type": "hb",

"type": "send",

"id": "k8-deploy-success",

"next": {

"success": "hangup",

"failure": "hangup"

}

}

]

}

],

"filters": [],

"server": {},

"plugins": [

{

"id": 25,

"name": "k8plugin",

"type": "k8-plugin",

"version": "1.0",

"template\_type": "hb"

}

]

}

**Rest Step Attributes Description:**

|  |  |
| --- | --- |
| **Attributes** | **Description** |
| **1.base\_url** | Provide base url. |
| **2.token** | Provide a token. |
| **3.k8\_plugin\_name** | Give the k8 plugin name |
| **4.data** | Give the data |
| **5.action** | Provide the type of action  1.create 2.recreate |
| **6.value\_type** | Value\_type used to set the value type.  Value types are two types.  1.hb-HandleBars  2.ftl-Freemarker Template Language. |

**K8 Deployment Step Execution Flow:**

**Logic:**

Get k8 deployment plugin information.Preparing Templates for Kubernetes deployment.Read Templates.Add Templates to Deployer.Build K8 API Client with API Key and Base URL.Create Namespace If not Exists , If Exists delete and recreate