## Currently APIs

We have 3 namespace for APIs

* **/influxdb:** route the traffic to influxdb instance
  + /influxdb/query
* **/ml:** route the traffic to ml instance
  + /ml?appname=acme-air
* **/api:** route traffic to api engine instance
  + /api/autoshift-config/
  + /api/docker-compose/count?appname=acme-air
  + /api/docker-compose/up
  + /api/docker-compose/rm
  + /api/jmeter-load

## APIs needed for Demo 3

**Proposed Basic API Structure**

* Run Autoshift
* Stop Autoshift
* Run Dryrun
* Stop Dryrun
* Add Plan (Clone)
* Delete Plan
* Edit Plan
* Application Dashboard

Version Number for API

Get Autoshift Status (Best Recommendation)

|  |
| --- |
| **API Format:**  {"status":200,"message":"message from server","response":{}}  **Status = HTTP status code**  <http://www.restapitutorial.com/httpstatuscodes.html> |

**Login**

|  |  |
| --- | --- |
|  | GET /api/login/  RETURN  Not Login  {"status":401,"message":"Not Login","response":{}} |

**Home / Applications**

|  |  |
| --- | --- |
|  | GET /api/login/  RETURN (response portion)  Logged In - Render the list of application right away  {  "id": 42,  "first\_name": "Daniel",  "last\_name": "Chen",  "email": "daniel.chen@huawei.com",  "applications": [  {  "id": 3,  "name": "acme-air",  "status\_id": 3,  "service\_count": 3,  "container\_count": 6,  "alert\_count" 0,  "logo": "themes/autoshift/images/logos/acme-air.png"  }  ]  } |

**Delete Application**

|  |  |
| --- | --- |
|  | DELETE /api/app/  PAYLOAD  {“id”: 3}  RETURN  {"status":200,"message":"","response":{}} |

**Upload Temp File**

|  |  |
| --- | --- |
|  | POST /api/upload/  \*Standard file upload  RETURN  {"status":200,"message":"","response":{“uri”:”/tmp/file/path”}} |

**Create Application Using Uploaded Compose File**

|  |  |
| --- | --- |
|  | POST /api/app/  PAYLOAD  {“name”: “Acme Air”, “compose-file”: “/tmp/file/path”}  RETURN  {"status":200,"message":"","response":{“id”:43}} |

**Application Detail**

|  |  |
| --- | --- |
|  | GET /api/app/43  RETURN (response portion)  {  "id": 43,  "name": "Acme Air",  "status\_id": 1,  "compose\_file": {  "web": {  "build": "web",  "command": "python app.py",  "ports": [  "5000:5000"  ],  "volumes": [  "web:/code"  ],  "links": [  "redis"  ]  },  "redis": {  "image": "redis"  },  "datadog": {  "build": "datadog",  "links": [  "redis"  ],  "environment": [  "API\_KEY=\_\_your\_datadog\_api\_key\_here\_\_"  ],  "volumes": [  "/var/run/docker.sock:/var/run/docker.sock",  "/proc/mounts:/host/proc/mounts:ro",  "/sys/fs/cgroup:/host/sys/fs/cgroup:ro"  ]  }  },  "sla\_params": {},  "jmeter": []  } |

**Application Deployment - List of Demand Profiles**

|  |  |
| --- | --- |
|  | GET /api/app/43/jmeters  RETURN (response portion)  [  {  "id": 36,  "type": 3,  "name": "Summer Conference",  "load\_duration": 3600,  "start\_users": 10,  "peak\_users": 2000  }  ] |

**Application Dry Run**

|  |  |
| --- | --- |
|  | GET /api/app/43/dryrun?jmeter=36  RETURN (response portion)  [  {  "id": 264,  "name": "Plan 1",  "status\_id": 1,  "autoplanning": false,  "created": 1470861608,  "services": [  {  "name": "Ngnix",  "cpu\_shares": 2048,  "memory": 512,  "storage": "1T",  "instances": [  {  "location": "path/to/target",  "scale": 2  }  ]  },  {  "name": "MySQL",  "cpu\_shares": 2048,  "memory": 512,  "storage": "1T",  "instances": [  {  "location": "path/to/target",  "scale": 1  }  ]  }  ],  "results": {  "latency": 24,  "cost": 7800,  "throughput": 178,  "error\_rate": 0.2,  }  }  ] |
|  |  |

**Launch Application**

|  |  |
| --- | --- |
|  | POST /api/app/43/  PAYLOAD  {"plan\_id": 65}  RETURN  {"status":200,"message":"","response":{“id”:43}} |