## Deployment on kubernetes with 1 simple container service

```
Kompose convert
Kompose up
Kubectl create -f weather.yml
//Verify
Kubectl get pods
Kubectl get pods --show-all
index.js
process.env.DEBUG = 'WeatherHost'
const debug = require('debug')('WeatherHost'),
    Config = require('./config'),
    request = require('superagent'),
    HostBase = require('microservice-core/HostBase')
const POLL_TIME = 60 * 5 // in seconds
function ctof(c) {
 return Math.round(c * (9 / 5) + 32)
}
class WeatherHost extends HostBase {
 constructor(zip) {
  const host = Config.mqtt.host,
      topic = Config.mqtt.topic
  debug('constructor', topic, zip)
  super(host, topic + '/' + zip)
  this.zip = zip
  this.poll()
 }
 command() {
  return Promise.resolve()
 }
 pollOnce() {
  return new Promise((resolve, reject) => {
    request
     .get('https://home.nest.com/api/0.1/weather/forecast/' + this.zip)
     .end((err, res) => {
      if (err) {
       reject(err)
```

```
}
      else {
       try {
        resolve(JSON.parse(res.text))
       catch (e) {
        console.dir(e.stack)
        reject(e)
     }
    })
  })
 async poll() {
  while (1) {
   debug(this.zip, 'polling')
     const new_state = await this.pollOnce()
     new_state.now.current_temperature = ctof(new_state.now.current_temperature)
     // flatten
     this.state = new_state // { status: JSON.stringify(new_state) }
   catch (e) {
     this.exception(e)
     debug('Exception', e.message, e.stack)
   await this.wait(POLL_TIME * 1000)
function main() {
 const hosts = {}
 Config.weather.locations.forEach((zip) => {
  debug('starting', zip)
  hosts[zip] = new WeatherHost(zip)
})
}
main()
docker file
FROM node:8
ENV TZ=America/NewJersey
```

```
RUN npm install forever -g && \
      useradd --user-group --create-home --shell /bin/false app
ENV HOME=/home/app
WORKDIR /home/app
COPY . /home/app
RUN cd $HOME && npm install
PORT 80:80
CMD ["npm", "start"]
config.js
module.exports = {
 matt: {
  // host where mqtt server resides
  // You can add an entry to this server's /etc/hosts to point
  // the name 'ha' at the mqtt server, or set the MQTT_HOST env
  // variable with your mqtt connect string.
  host: process.env.MQTT_HOST || 'mqtt://ha',
  // This is the base of the topic used to publish/subscribe.
  // For example, autelis/# (on the client) to listen to all updates
  // or autelis/jets to listen for events about the Spa jets.
  // Client can turn on the jets with
       topic: autelist/jets
  //
       message: on
  //
  topic: process.env.topic || 'weather',
 },
 weather: {
  locations: process.env.WEATHER_LOCATIONS?
process.env.WEATHER_LOCATIONS.split(','):[
   '08851', // NJ
},
100 servers
cat servers.txt
Server 1 <IP address 1>
Server2 <IP address 2>
<EOF>
vi <u>sshtrigger1.sh</u>
```

while read -r ip;do ssh-copy-id -i .ssh/id\_rsa.pub \$ip done < servers.txt