# REST API-Proj-v.01

1. **REST API Java servlet service source code location , unzip Sample.zip**

..\Sample\src\main\java\com\sample\code\SampleServlet.java

1. Location to Rest API ENDPOINT webapps , ..\Sample\target\Sample.war
2. To Containerize the REST API servlet service using DockerFile , create a Dockerfile and add below ,

FROM tomcat:8.5.12-jre8-alpine  
VOLUME /tmp  
COPY ./Webapp/Sample.war /usr/local/tomcat/webapps/Sample.war  
EXPOSE 8080  
CMD ["catalina.sh", "run"]

1. To build Dockerfile , use below commands,

docker build -t restapi .

docker run -dit -p 8080:8080 restapi:latest

1. **To pull restapi docker image from repository,ignore 3 and 4 steps, use below to pull from public repo ,**

docker pull rameshvenkat/testing:restapiv0.1

1. To deploy application in minikube or kubernetes , use below yaml content,

apiVersion: apps/v1

kind: Deployment

metadata:

  name: script

spec:

  replicas: 1

  selector:

    matchLabels:

      app: script

  template:

    metadata:

      labels:

        app: script

    spec:

      subdomain: rest-api

      imagePullSecrets:

      - name: dockercred

      containers:

      - name: restapi

        resources:

        image: <dockerimagerepo>/restapiV0.1

        imagePullPolicy: Always

        ports:

        - containerPort: 8080

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apiVersion: v1

kind: Service

metadata:

  name: script

spec:

  type: LoadBalancer

  ports:

  - port: 8080

    protocol: TCP

    targetPort: 8080

  selector:

    app: script

To use Nodeport , use below, if using load balancer ignore below,

apiVersion: v1  
kind: Service  
metadata:   
name: script

spec:  
selector:   
app: my-app  
type: NodePort  
ports:   
- name: http  
port: 80  
targetPort: 80  
nodePort: 30036  
protocol: TCP

1. To deploy application in kubernetes use below ,

kubectl apply -f scripts.yaml

1. To check kubectl service , use below,

kubectl get svc

Kubectl get pods



1. Connect Postman to check the restapi service ,

Request URL : http://<IP>:8080/Sample/SampleServlet?email=Delivered-To: santa@northpole.com

Received: by 10.159.41.68 with SMTP id t62csp570647uat;

Thu, 16 Mar 2017 04:44:28 -0700 (PDT)

X-Received: by 10.99.140.69 with SMTP id q5mr9342725pgn.179.1489664668601;

Thu, 16 Mar 2017 04:44:28 -0700 (PDT)

Return-Path: <llbean.511020444@envfrm.r1234s5.com>

Received: from omp.e1.llbean.com (omp.e1.llbean.com. [199.7.202.38])

by mx.google.com with ESMTPS id d2si234254576pli.110.2017.03.16.04.44.28

for <santa@northpole.com>

(version=TLS1\_2 cipher=ECDHE-RSA-AES128-GCM-SHA256 bits=128/128);

Thu, 16 Mar 2017 04:44:28 -0700 (PDT)

Received-SPF: pass (google.com: domain of llbean.511020444@envfrm.r1234s5.comdesignates 199.8.123.38 as permitted sender) client-ip=199.8.123.38;

Authentication-Results: mx.google.com;

dkim=pass header.i=@e1.llbean.com;

dkim=pass header.i=@responsys.net;

dkim=pass header.i=@responsys.net;

spf=pass (google.com: domain of llbean.511020444@envfrm.r1234s5.comdesignates 199.8.123.38 as permitted sender) smtp.mailfrom=llbean.511020444@envfrm.r1234s5.com;

dmarc=pass (p=REJECT sp=REJECT dis=NONE) header.from=e1.llbean.com

Received: by omp.e1.llbean.com id hp9t9o1hctok for <santa@northpole.com>; Thu, 16 Mar 2017 04:25:51 -0700 (envelope-from <llbean.511020444@envfrm.r1234s5.com>)

X-CSA-Complaints: whitelist-complaints@eco.de

Received: by omp.e1.llbean.com id hp9r3u1hctou for <santa@northpole.com>; Thu, 16 Mar 2017 04:22:00 -0700 (envelope-from <llbean.50094@envfrm.rsys5.com>)

MIME-Version: 1.0

Content-Type: multipart/mixed; boundary="----msg\_border\_dPN32EhfaN"

Date: Thu, 16 Mar 2017 04:22:00 -0700

To: santa@northpole.com

From: "L.L.Bean" <llbean@e1.llbean.com>

Reply-To: "L.L.Bean" <reply@e1.llbean.com>

Subject: Climbing mountains. Breaking barriers.

Feedback-ID: 50021:10567834:oraclersys

Message-ID: <0.0.4D.537.1D2EDF347E56956.0@omp.e1.llbean.com>

------msg\_border\_dPN32EhfaN

Date: Thu, 16 Mar 2017 04:22:00 -0700

Content-Type: multipart/alternative; boundary="----alt\_border\_BrDQaPYzhN\_1"

------alt\_border\_BrDQaPYzhN\_1

Content-Type: text/plain; charset="UTF-8"

Content-Transfer-Encoding: quoted-printable

L.L.Bean Email Update

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**OutPut for Servlet service,**

