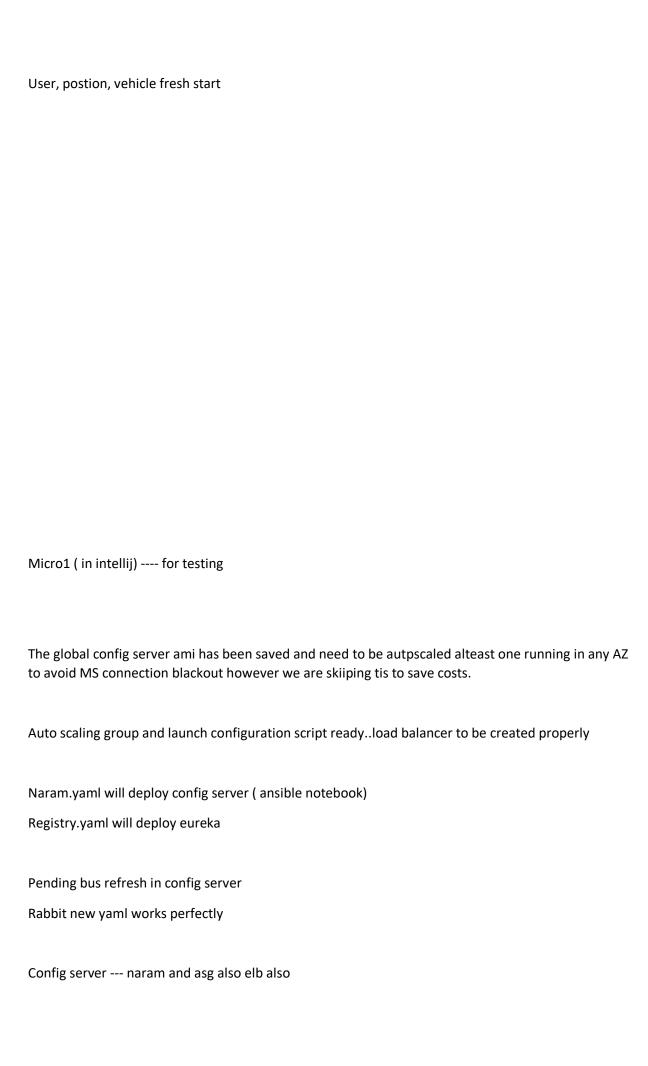
2 MRCConfigServer (Spring cloud config server) coupled with Git (MRC Config)assymetric encryption used with JWT token 8012 eclipse
3 Zuul API Gateway – Eclipse 8011
4 JWTMS(in E/copy)main user account details (JWT auth) (random port with discovery service) intellij
5 MICRO1 (Angular appp)
6 Micro3possim (eclipse) – Position simulator8080 (queue name fleetman) (couple it with eureka later)
7 Micro4possim Position tracker (which recives data from queue) intellij
8 MICRONOD (Nodejs backend) (coap server and websocket client) messages received from coap client in pi is routed to angular frontend usinf websockets visualcode
9 Msvehicle ms with vehicle details (feign operation) intellij
ELK Updated (in E/Thesis private/ELK) (kibana 5601elastic 9200logstash 9600) skipped due to time constarints and exisiting useless problems
time constanints and exisiting useless problems
COap client in Raspberry coap_ms done
· · · · · · · · · · · · · · · · · · ·
Web app locally deployed in containerset up angular ansiblke and deploy web app blue/black///try
using docket community
Company to contain an few access. ELIK Details and
Separate container for queue, ELK, Database

1 Msregistry (discovery microservice) 8010 eclipse



Rabbit – only ansible pla rabbitnew.yaml
Eureka only script registry.yaml
Ec2_instance.yaml for Jenkins
Try a simple web app Rahul Shetty deployment using Jenkins and blue/green deployment
Guess the number game understand and push to git thymeleaf
FIRST STEP
Manualcreate elastic ip for the same and provide it in rabbitnew.yaml
Start rabbit Msrabbitnew.yaml
Rabbit done
SECOND STEP
Start config server
Asgstart conflaod balancer(default manually created coupled created)can be accessed with elb
Config server running
THIRD STEP
Eureka registry startno asg or elbjust registry.yaml which will take already created elastic ip
FOURTHE STEP
Sample web srarted (with elastic ip in docker enveureka issue solved)
,

RUN CONFIG ASG WHEN STARTING FREE FIFTH FLEETMAN TRACKER AND VEHICLE DETAILS(FEIGN) DONE SIXTH HYSTRIX FALL BACK **SEVENTH GATEWAY EIGHT USER SERVICE** NINTH ANGULAR DONE NEXT ELK FOR USER **GUAGE COAP TENTH**

IT-huawei-8383884

SR320200921181045204

ONCE FULL CONNECT K8S

COAP/CONNECT (NODEJS TO CLOUD)

Docker run -d -v esdata1:/usr/share/elasticsearch/data –name elasticsearch -p 9200:9200 -p 9300:9300 -e "discovery.type=single-node" elasticsearch:7.2.0

Docker run -d -link elasticsearch:elasticsearch -p 5601:5601 kibana:7.3.0

```
Docker Maven Plugin for latest uses
 <plugin>
                                         <groupId>org.springframework.boot</groupId>
                                         <artifactId>spring-boot-maven-
            plugin</artifactId>
                    <configuration><executable>true</executable></configuration>
                                  </plugin>
                                  <plugin>
                                         <groupId>io.fabric8</groupId>
                                         <artifactId>docker-maven-plugin</artifactId>
                                         <version>0.21.0
                                         <configuration>
                                <verbose>true</verbose>
            <authConfig>
            <username></username> // your dockerhub username
            <password></password> //your dockerhub pass
            </authConfig>
                                                 <images>
                                                        <image>
                    <name>virtualpairprogrammers/fleetman-position-tracker</name>
                                                               <build>
                    <dockerFileDir>${project.basedir}/src/main/docker/</dockerFileDir>
                                                                       <assembly>
                    <descriptorRef>artifact</descriptorRef>
                                                                       </assembly>
                                                                       <tags>
```

</tags>

<tag>latest</tag>

Build in eclipse with goals "clean package docker:build"..also note the jar is inside maven folder in target when run from plugin..refer docker file of Richard..the above opetional can be used to avoid docker:build..if to push use docker:push

K8S

Config

docker build --tag configserver:minikube.

docker run --restart always --network sasi --publish 8012:8012 --detach --name miniconfig configserver:minikube

Rabbit

docker run --restart always -p 15672:15672 -p 5672:5672 -p 15671:15671 -p 5671:5671 -p 4369:4369 --network sasi --detach --name minirabbit rabbitmq:3-management

DiscoveryServer

docker run --restart always --publish 8010:8010 --network sasi --detach --name minieureka registry:minieureka

PoSSimulatpr

docker build --tag sim:minisim.

docker run --restart always --network sasi --detach --name minisim sim:minisim

Coap

docker run --restart always --network sasi -p 5683:5683/udp -p 3002:3002 --detach --name minicoap coap:minicoap

docker run --restart always --network sasi -p 5683:5683/udp --detach --name minicoap coap:minicoap

Postracker

docker build --tag posra:miniposra.

docker run --restart always --network sasi -p 8888:8888 --detach --name miniposra posra:miniposra

PosVehicle

docker build --tag vehicle:minivehicle.

docker run --restart always --network sasi -p 8080:8080 --detach --name minivehicle vehicle:minivehicle

user, gateway(check), elk...

push to docker rep

login to kubectl mini

<u>user</u>

docker run --restart always --network sasi -e "logging.file.name=/api-logs/usersmicroservice.log" -v c:/users/manis/docklog:/api-logs -p 8500:8888 --detach --name miniuser user:miniuser

docker run --restart always --network sasi -v c:/users/manis/docklog:/api-logs -p 8500:8888 -- detach --name miniuser user:miniuser

docker run --restart always --network sasi -v c:/users/manis/docklog:/api-logs --name miniuserlogstash logstash

elasticsearch

docker run -d -v esdata1:/usr/share/elasticsearch/data --name elasticsearch -p 9200:9200 -p 9300:9300 -e "discovery.type=single-node" elasticsearch:7.3.0

docker run -d --network sasi -p 5601:5601 --name kibana kibana:7.3.0

kibana

CUSTOM GATEWAY

docker run --restart always --network sasi -p 8012:8080 --detach --name minigateway customgateway:minigateway

IMPORTNT

cloud bee plugin anme for giving secret

key: AWS_ACCESS_KEY_ID

secret: AWS_SECRET_ACCESS_KEY

SSH-Agent plugin for connecting to EC2

in jenkins after ssh with private key (they give the .pem file from aws in jenkins to connect) username is ec2-user

sftp -i .pem ec2-user@xx.xxx.xxx

put ..file or path..file

export ANSIBLE_INVENTORY=/etc/ansible/ec2.py

/etc/ansible/ec2.py - list

This can be run to get the list of ec2 instance in the configured area