PAAS HACKATHON

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December 2016

redhat.

INTRODUCTION

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Virtual Summit 2016

Scenario:

You are santas helping teams with one aim to get his reindeers in alphabetical order in order for Santa to deliver the Christmas Presents.

Hackathon Goal:

Lets learn the quirks of bringing an MSA into OCP, read environment configurations, communicate with other MSAs, use pipelines and anything else you can bring in (-:

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HACKATHON FORMAT

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- Will be split in teams of 2 people each according to https://docs.google.com/spreadsheets/d/1992Hygg9oUAeevFcgx4pG_4z0
- each groups is going to develop a MSA
- we will have 2 checkpoints meetings (invitations already sent) and a final presentation/discussion.

MSA REQUIREMENTS

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- be able to **handle** an **http POST** at **/reindeerservice** with this JSON payload

```
{
   "serviceName" : "",
   "payload" : [ {
     "teamName":"",,
      "reindeerName":"",
      "nameEmaiMap":{
          " ":" "
     }
   }
  ]
}
```

Example:

```
{
   "serviceName" : "shinny-upatree",
   "payload" : [ {
     "teamName" : "santas-helpers-c-team",
     "reindeerName" : "comet",
     "nameEmaiMap" : {
       "Andrea Tarrochi" : "atarocch@redhat.com",
       "Stelios Kousouris" : "stelios@redhat.com"
     }
   }, {
     "teamName" : "santas-helpers-a-team",
     "reindeerName" : "dancer",
     "nameEmaiMap" : {
       "Matteo Renzi" : "mrenzi@redhat.com",
       "Alexis Tsipras" : "atsipras@redhat.com"
     }
   } ]
}
```

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MSA REQUIREMENTS

- **pick up** your team reindeer names from a **configMap**:

```
configMap: santas-config

santas-helpers-a-team     santas-helpers-b-team
team.a.reindeer.1         team.b.reindeer.1
team.a.reindeer.2         team.b.reindeer.2
```

- **add** your reindeer to the input list you received (might be empty if you are the first service called)
- **sort** the reindeer list alphabetically
- **discover** a service called **proxy-api** and **call** it with an http POST at /api/service/proxy with the payload you've just created by adding your reindeer to the list and sorting it.
- the proxy-api service is going to call all the services in turn and send an email with the aggregated response which should hopefully contain all the reindeer names in alphabetical order

EXTENDED EXAMPLE

- assume you are team a (i.e. your service name should be bushy-evergreen) and you receive a POST call with this payload:

```
{
   "serviceName" : "shinny-upatree",
   "payload" : [ {
     "teamName" : "santas-helpers-c-team",
     "reindeerName" : "comet",
     "nameEmaiMap" : {
       "Andrea Tarrochi" : "atarocch@redhat.com",
       "Stelios Kousouris" : "stelios@redhat.com"
     }
   } ]
}
```

- and the configMap looks like this:

```
configMap: santas-config

team.a.reindeer.1=dancer          team.b.reindeer.1=dasher
team.a.reindeer.2=prancer         team.b.reindeer.2=rudolph
[...]
```

EXTENDED EXAMPLE

- you should POST to proxy-api service /api/service/proxy this payload:

```
{
   "serviceName" : "bushy-evergreen",
   "payload" : [ {
     "teamName" : "santas-helpers-c-team",
     "reindeerName" : "comet",
     "nameEmaiMap" : {
       "Andrea Tarrochi" : "atarocch@redhat.com",
       "Stelios Kousouris" : "stelios@redhat.com"
     }
   }, {
     "teamName" : "santas-helpers-c-team",
     "reindeerName" : "dancer",
     "nameEmaiMap" : {
       "Andrea Tarrochi" : "dsanchor@redhat.com",
       "Stelios Kousouris" : "psforza@redhat.com"
     }
   }, {
     "teamName" : "santas-helpers-c-team",
     "reindeerName" : "prancer",
     "nameEmaiMap" : {
       "Andrea Tarrochi" : "dsanchor@redhat.com",
       "Stelios Kousouris" : "psforza@redhat.com"
     }
   } ]
}
```

ENVIRONMENT DESCRIPTION

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- each MSA service has his own namespace in which a test version of proxy-api service should be already deployed
- there are a preprod and prod namespaces in which latest images from each team namespaces are pulled and deployed
- a mycicd namespace which does the pull and deploy in preprod and prod using jenkins

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