

DOCKER DYNAMIC PORT

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REQUEST CYCLE (earlier)

ALB > OCTOPUS > EUREKA > HOST > CONTAINER > CONTROLLER

In production we run multiple tasks in a single instance. In order to determine the port mapping for a container with its host (useful while registering to eureka), following approach has been taken.

1. AWS Task Definition has port mapping as follows : ***Host Port : 0, Container Port : 8080***
2. Provide ***volume mount*** of host machine docker socket to container
3. ECS Agent respects this configuration and assigns a random available ephemeral port for configuration. In order to fetch the exact details of the configured port, we run following commands as part of the base docker file

- ***export CONTAINER_ID=\$(cat /etc/hostname)***
- ***export CONTAINER_PORT=\$(docker port \$CONTAINER_ID | awk 'END {print \$NF}' | awk -F'0.0.0.0:' '{print \$2}')***

The first command when run inside the container fetches container-id and exports it as system variable CONTAINER_ID and the second fetches configured dynamic port and exports it as a system variable CONTAINER_PORT

As part of the Application.java in each service following shall be performed to register to eureka with the fetched port.

```

@Bean("eurekaInstanceConfig")
    @Profile("docker")
    public EurekaInstanceConfigBean
eurekaInstanceConfig(InetUtils inetUtils) {
        System.out.println("in
eurekaInstanceConfig");
        EurekaInstanceConfigBean config = new
EurekaInstanceConfigBean(inetUtils);
        AmazonInfo info =
AmazonInfo.Builder.newBuilder().autoBuild("eureka");
        config.setDataCenterInfo(info);

info.getMetadata().put(MetaDataKey.localHostname.getName(),
info.get(AmazonInfo.MetaDataKey.localIpv4));

config.setHostname(info.get(AmazonInfo.MetaDataKey.localHost
name));

config.setIpAddress(info.get(AmazonInfo.MetaDataKey.localIpv
4));

        System.out.println("in eurekaInstanceConfig
" + config.getHostname() + " " + config.getIpAddress());
        String port =
System.getenv("CONTAINER_PORT");
        if (port != null && !port.trim().equals(""))
{

config.setNonSecurePort(Integer.parseInt(port));
        System.out.println("Eureka port set
to : " + port);
        } else {
            config.setNonSecurePort(80);
            System.out.println("Eureka port set
to : " + port);

```

```
        }  
  
        config.setInstanceId(info.get(MetaDataKey.instanceId)+"_"+config.getNonSecurePort());  
        return config;  
    }  
}
```

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