**> Technical challenge**

\*\*Please also produce a Design Document for this challenge\*\*

1. Write a simple program in any language you want that outputs "I'm on %HOSTNAME%"

(HOSTNAME should be the actual host name on which the app is running) and deploy it to Github

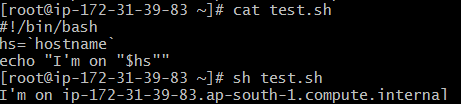
vi test.sh

#!/bin/bash

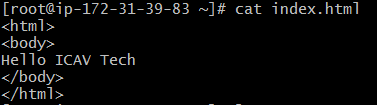
hs=`hostname`

echo "I'm on "$hs""

sh test.sh



2. Write a Dockerfile which will run your app



<html>

<body>

Hello ICAV Tech

</body>

</html>



[root@ip-172-31-39-83 ~]# cat Dockerfile

FROM centos

MAINTAINER ravigopireddy51

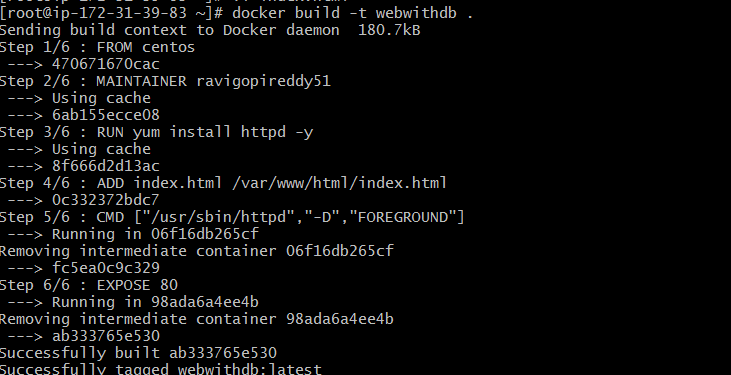
RUN yum install httpd -y

ADD index.html /var/www/html/index.html

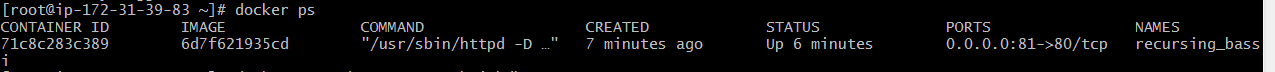
CMD ["/usr/sbin/httpd","-D","FOREGROUND"]

EXPOSE 80

[root@ip-172-31-39-83 ~]# docker build -t webwithdb .

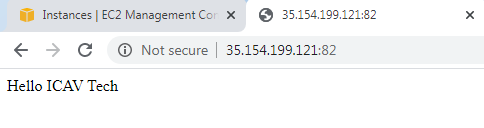


[root@ip-172-31-39-83 ~]# docker ps



[root@ip-172-31-39-83 ~]# docker run -d -p 82:80 webwithdb





**Attach volume:**

[root@ip-172-31-39-83 apache]# docker run -d -p 84:80 -v /root/docker/apache:/var/www/html webwithdb

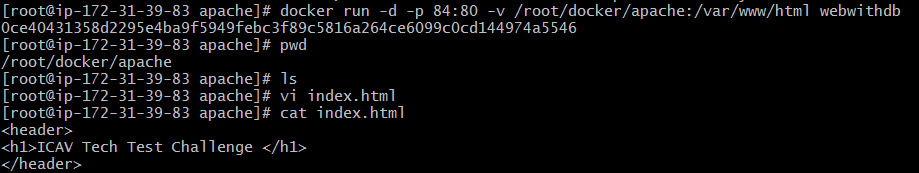
0ce40431358d2295e4ba9f5949febc3f89c5816a264ce6099c0cd144974a5546

[root@ip-172-31-39-83 apache]# cat index.html

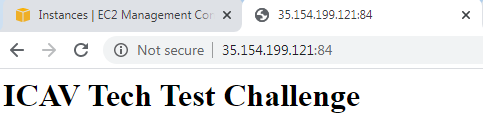
<header>

<h1>ICAV Tech Test Challenge </h1>

</header>



Refresh Browser

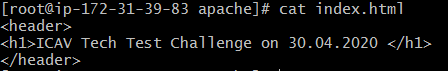


**Modify index.html in local machine**

<header>

<h1>ICAV Tech Test Challenge on 30.04.2020 </h1>

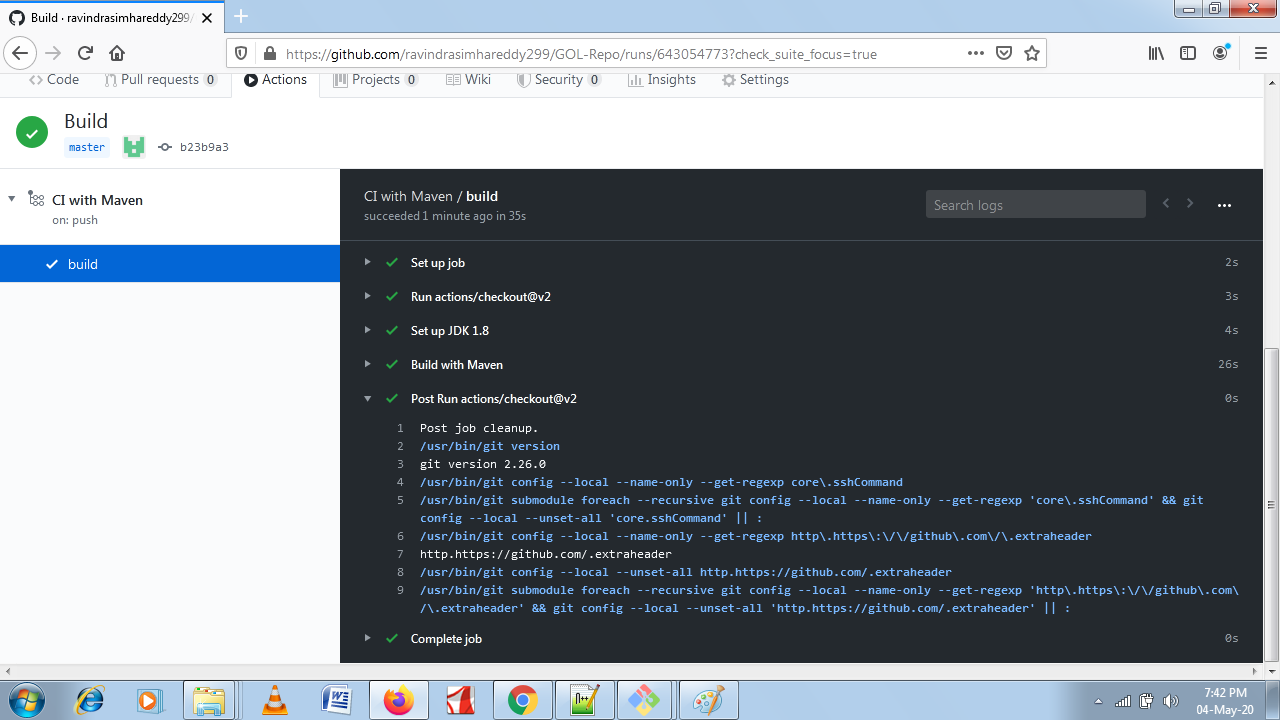
</header>

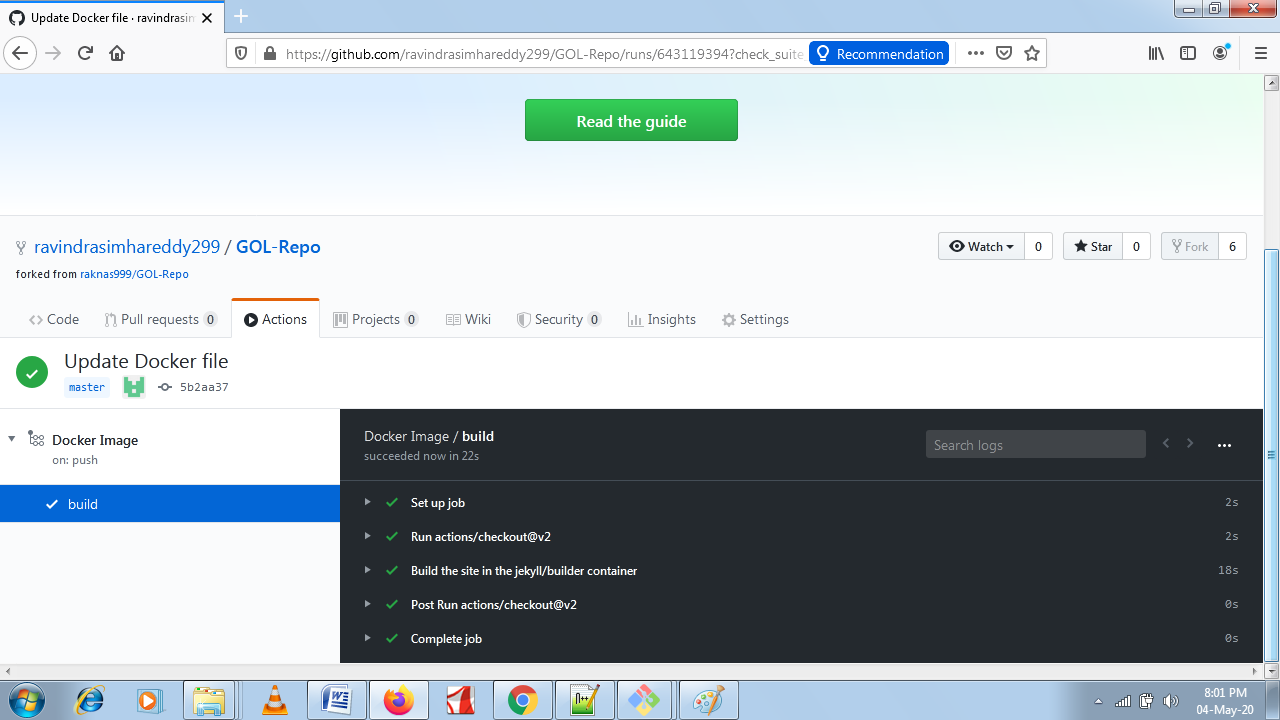


**Refresh the page automatically content will be updated**



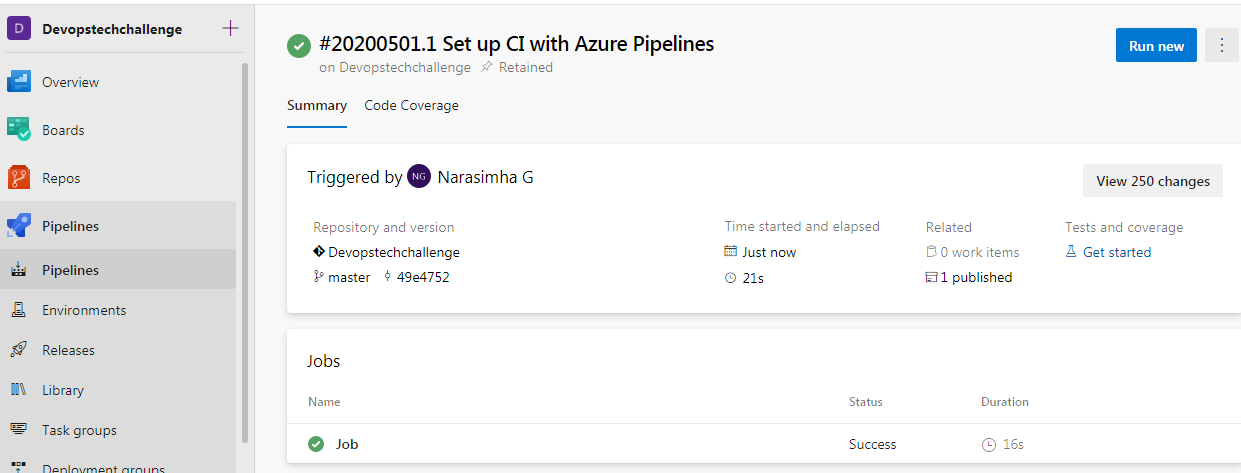
**3. Create Github Actions Pipeline to Build the Docker image and push to Azure Container Registry**

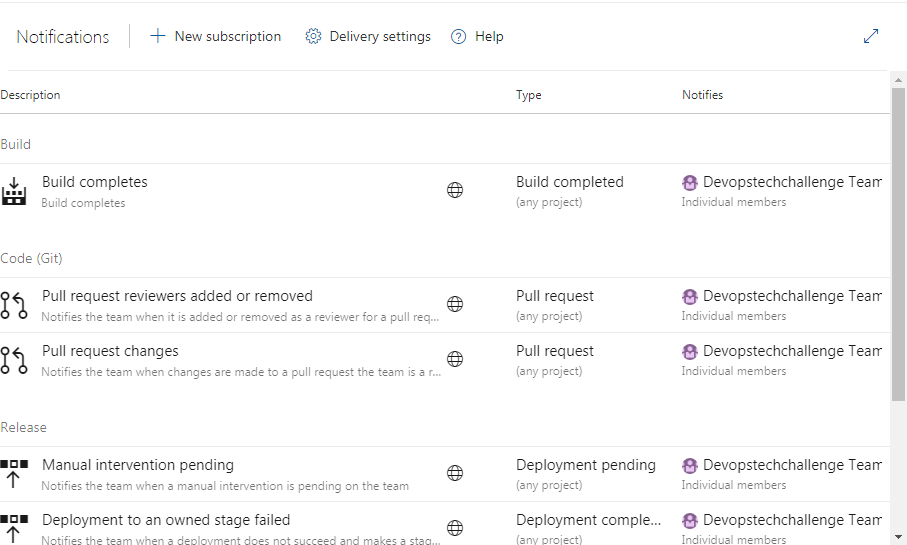


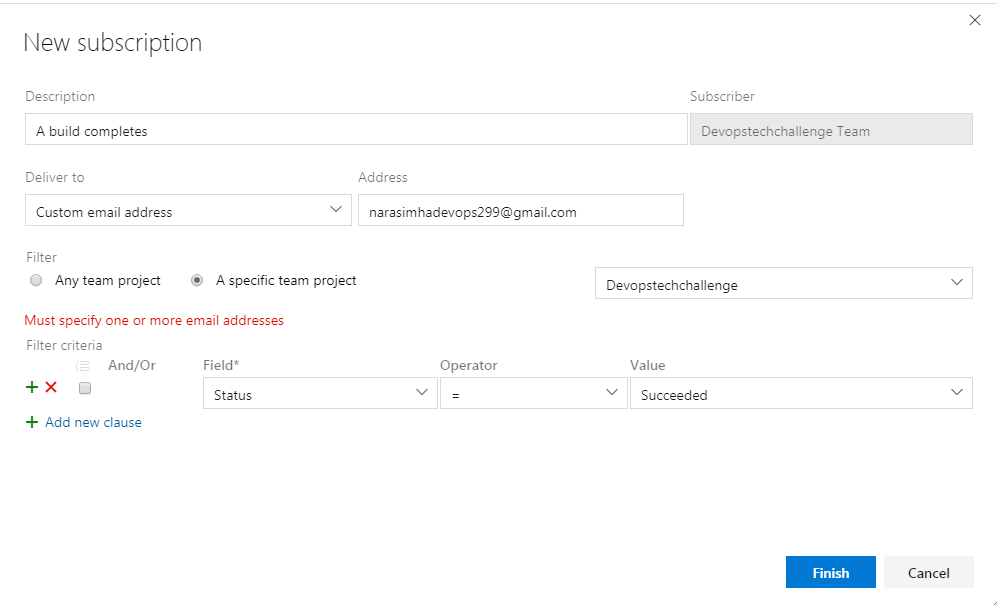


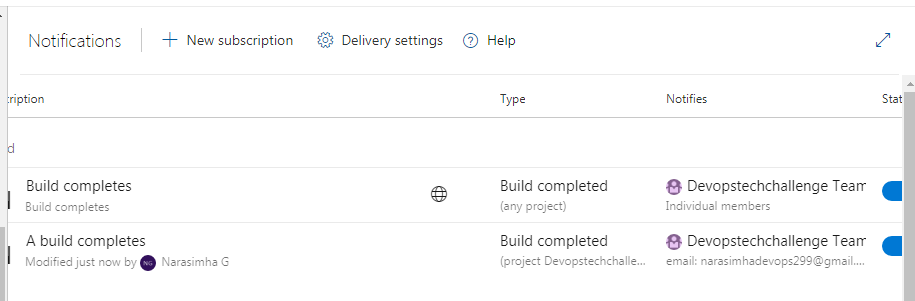
**Remarks**: I don’t have an account of Azure Container Registry, so my work is Completed Upto Docker Image on GIT hub Actions.

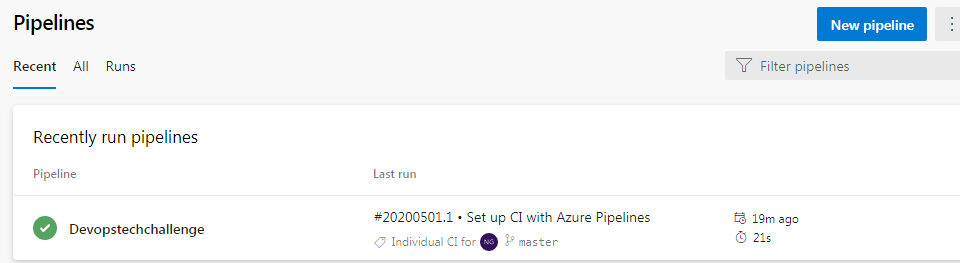
**4.** **Extend the Actions Pipeline to deploy the app to AzureK8s**











**Continuos Deployement**

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