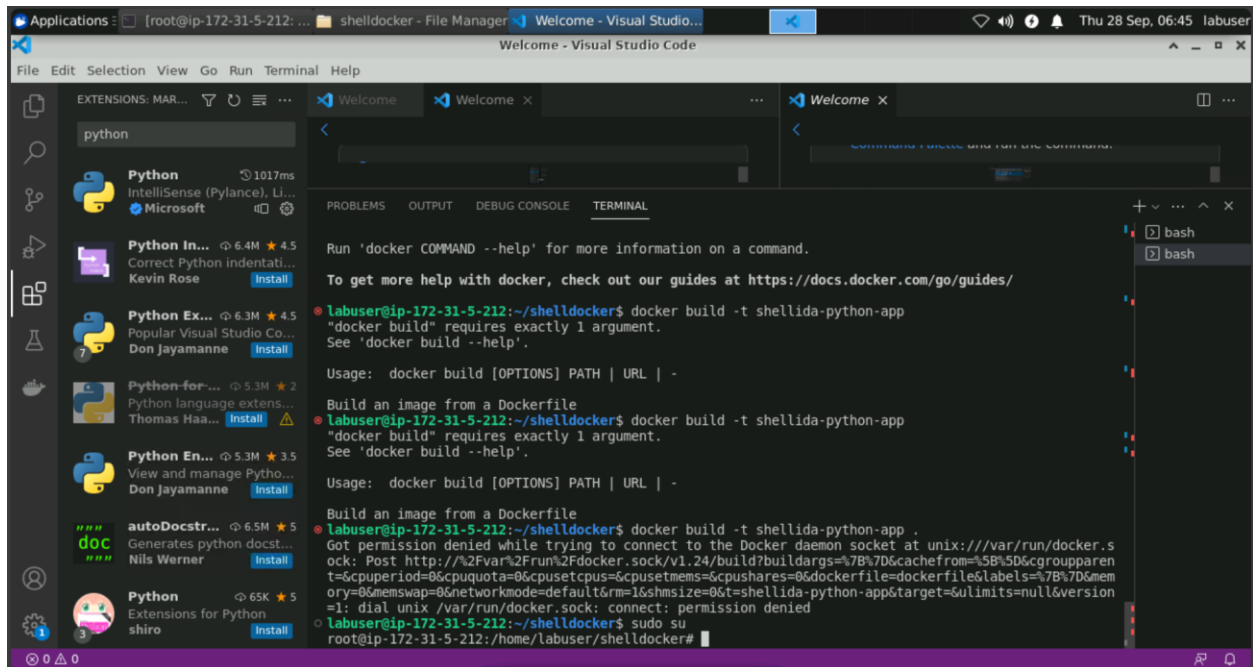
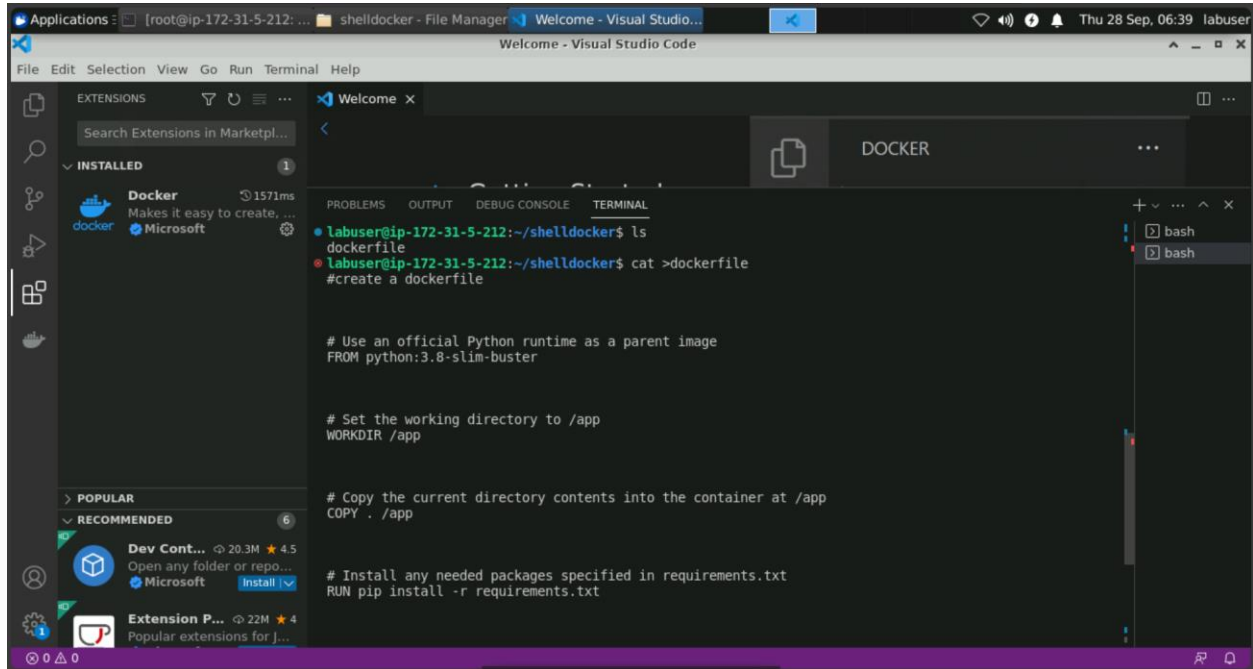
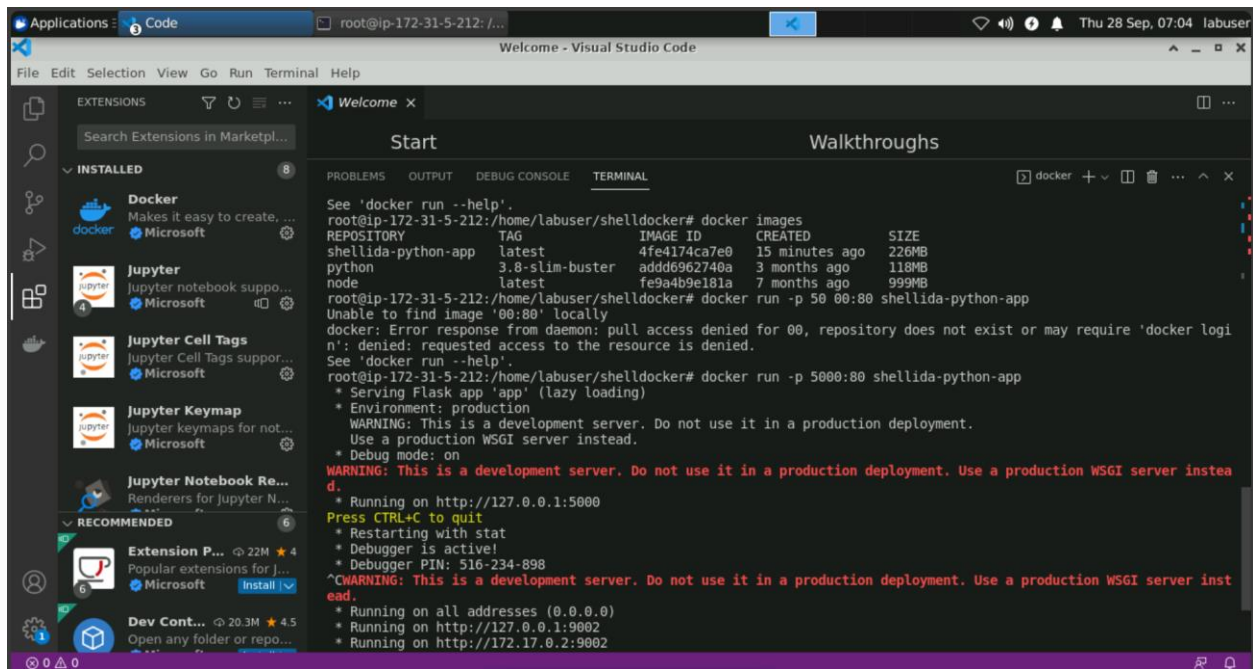
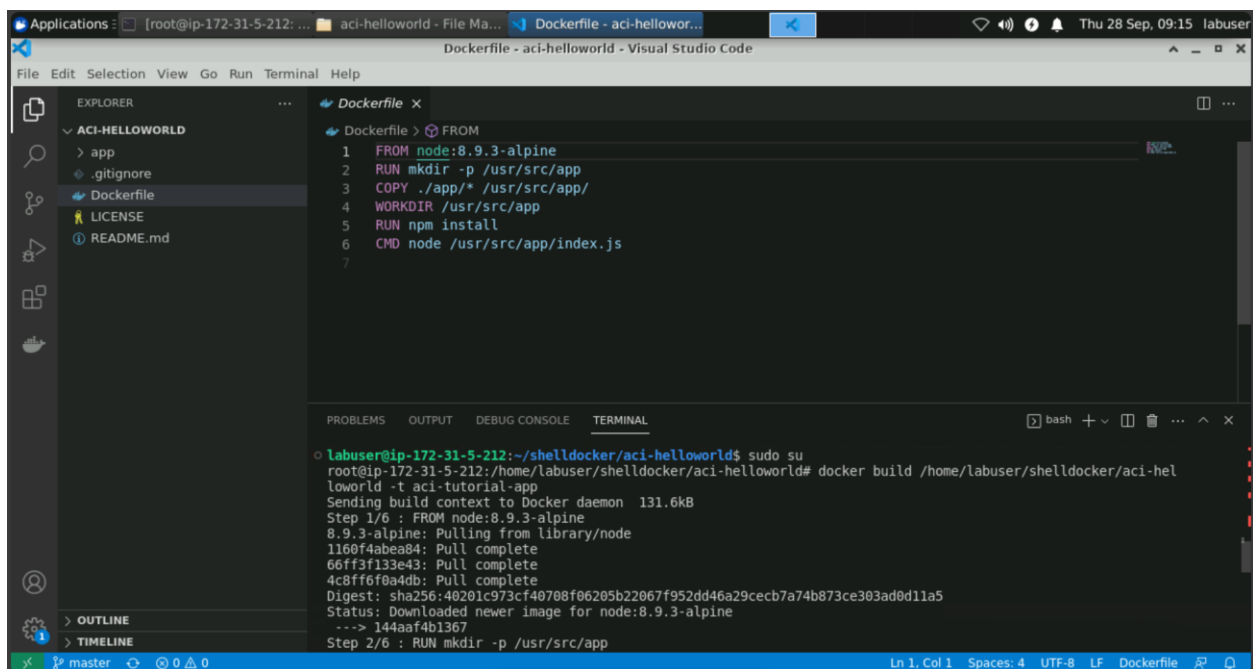


DOCKER, AZURE CONTAINERS AND KUBERNETES





[Tutorial - Prepare container image for deployment - Azure Container Instances | Microsoft Learn](#)



Applications | Welcome to Azure Cont... | [root@ip-172-31-5-212: ...] Dockerfile - aci-hellowor... | Thu 28 Sep, 09:27 labuser

Dockerfile - aci-helloworld - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER

- ACI-HELLOWORLD
 - app
 - .gitignore
 - Dockerfile
 - LICENSE
 - README.md

Dockerfile > ...

```
1 FROM node:8.9.3-alpine
2 RUN mkdir -p /usr/src/app
3 COPY ./app/* /usr/src/app/
4 WORKDIR /usr/src/app
5 RUN npm install
6 CMD node /usr/src/app/index.js
7
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

bash

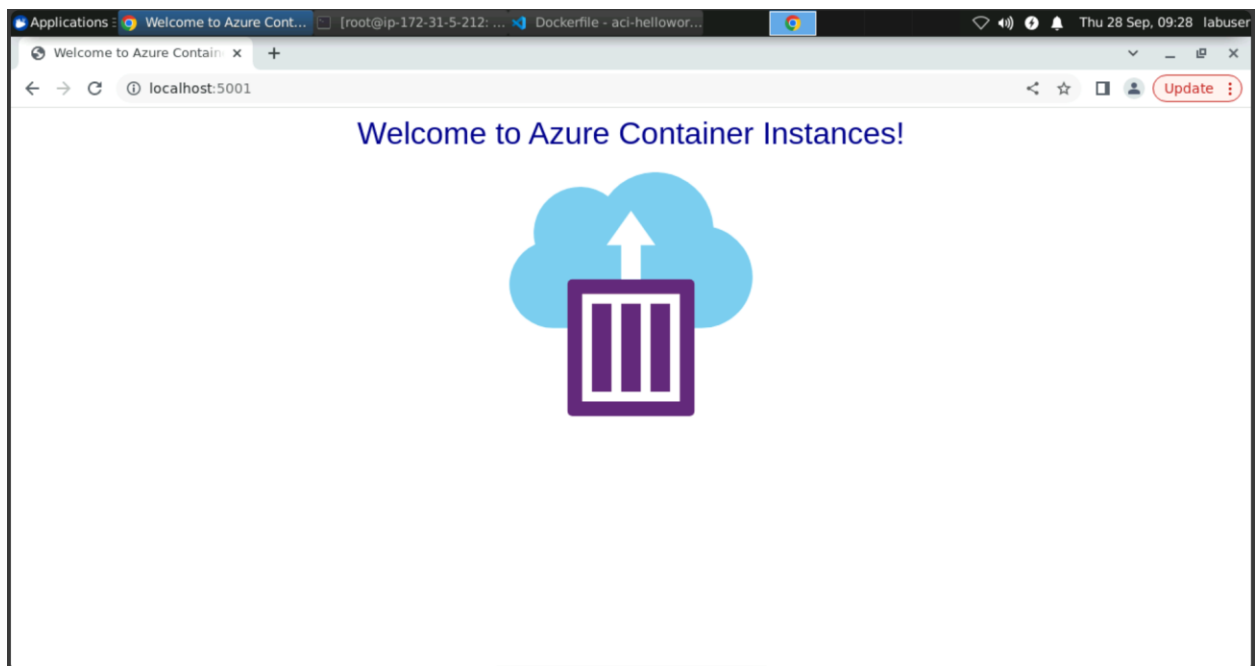
```
root@ip-172-31-5-212:/home/labuser/shelldocker/aci-helloworld# docker run -d -p 5000:81 aci-tutorial-app
9893639e7c9251eb56608f4075c29b75f940087aea02eeb6fe47a984829417b3
docker: Error response from daemon: driver failed programming external connectivity on endpoint competent_bar_tik (9c5a9868893c47a7cc43487678e2e734c09cfca4cfc95781b16f6bcb23b9b52): Bind for 0.0.0.0:5000 failed: port is already allocated.
root@ip-172-31-5-212:/home/labuser/shelldocker/aci-helloworld# docker run -d -p 8081:80 aci-tutorial-app
c6d61ad0f948b9a123fb1b9fdde9517d97fa3a0f50722c41d9e634f329e79b3a
docker: Error response from daemon: driver failed programming external connectivity on endpoint gifted_frankl_in (cfcf2ec9b9239bcd2be45b6bb3d848f6cf73dba25cb39405a3b106d050831db): Error starting userland proxy: listen tcp4 0.0.0.0:8081: bind: address already in use.
root@ip-172-31-5-212:/home/labuser/shelldocker/aci-helloworld# docker run -d -p 5001:80 aci-tutorial-app
978b15244c0b3a8a96e785f54a7df7eef3d970b3b1d7747b864a0213d7c88a6
root@ip-172-31-5-212:/home/labuser/shelldocker/aci-helloworld#
```

OUTLINE

TIMELINE

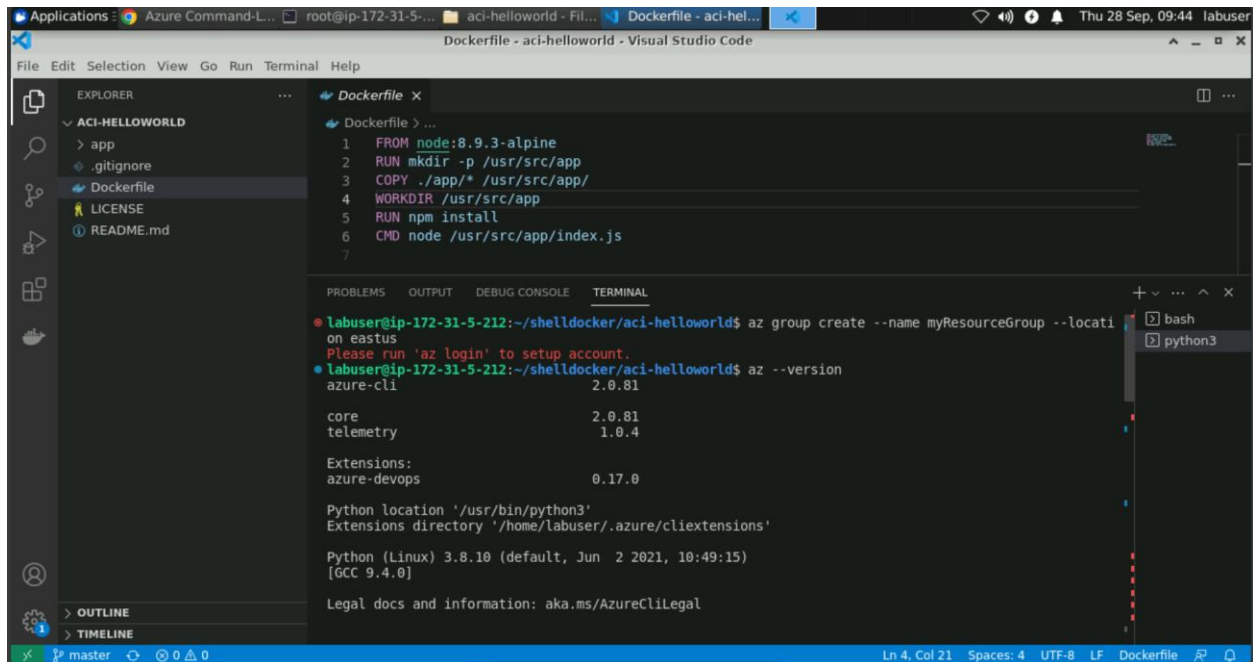
master 0 0

Ln 4, Col 21 Spaces: 4 UTF-8 LF Dockerfile



Create an Azure container registry and push a container image:

[Tutorial - Prepare container registry to deploy image - Azure Container Instances | Microsoft Learn](https://learn.microsoft.com/en-us/azure/aks/tutorial-kubernetes-prepare-app)



The screenshot shows the Visual Studio Code interface with a Dockerfile open in the editor. The Dockerfile contains the following instructions:

```
1 FROM node:8.9.3-alpine
2 RUN mkdir -p /usr/src/app
3 COPY ./app/* /usr/src/app/
4 WORKDIR /usr/src/app
5 RUN npm install
6 CMD node /usr/src/app/index.js
7
```

The terminal window shows the output of the command `az group create --name myResourceGroup --location eastus`. The output indicates that the group was created successfully and provides details about the Azure CLI version and extensions.

```
labuser@ip-172-31-5-212:~/shell/docker/aci-helloworld$ az group create --name myResourceGroup --location eastus
Please run 'az login' to setup account.
labuser@ip-172-31-5-212:~/shell/docker/aci-helloworld$ az --version
azure-cli                          2.0.81

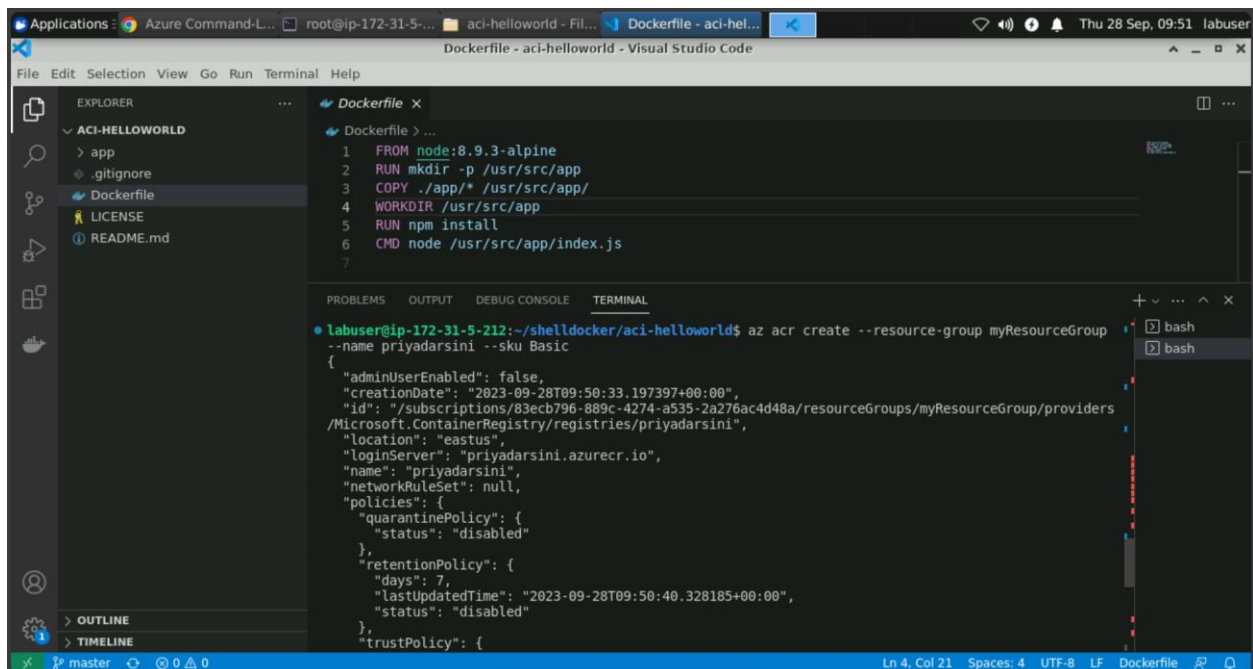
core                               2.0.81
telemetry                         1.0.4

Extensions:
azure-devops                      0.17.0

Python location '/usr/bin/python3'
Extensions directory '/home/labuser/.azure/cliextensions'

Python (Linux) 3.8.10 (default, Jun  2 2021, 10:49:15)
[GCC 9.4.0]

Legal docs and information: aka.ms/AzureCliLegal
```



The screenshot shows the Visual Studio Code interface with the same Dockerfile open. The terminal window shows the output of the command `az acr create --resource-group myResourceGroup --name priyadarsini --sku Basic`. The output indicates that the container registry was created successfully and provides details about the registry configuration.

```
labuser@ip-172-31-5-212:~/shell/docker/aci-helloworld$ az acr create --resource-group myResourceGroup --name priyadarsini --sku Basic
{
  "adminUserEnabled": false,
  "creationDate": "2023-09-28T09:50:33.197397+00:00",
  "id": "/subscriptions/83ecb796-889c-4274-a535-2a276ac4d48a/resourceGroups/myResourceGroup/providers/Microsoft.ContainerRegistry/registries/priyadarsini",
  "location": "eastus",
  "loginServer": "priyadarsini.azurecr.io",
  "name": "priyadarsini",
  "networkRuleSet": null,
  "policies": {
    "quarantinePolicy": {
      "status": "disabled"
    },
    "retentionPolicy": {
      "days": 7,
      "lastUpdatedTime": "2023-09-28T09:50:40.328185+00:00",
      "status": "disabled"
    },
    "trustPolicy": {

```

<https://learn.microsoft.com/en-us/azure/aks/tutorial-kubernetes-prepare-app>