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# Dockerfile to Domino

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# Steps

# Tag Image

If you have already done this, proceed. This is to setup the push to our private registry.

Where you are running Docker, run the following command with your specified tag. For this example the tag is **gen201902\_rev2** and the repository is **rr**.

docker tag rr:gen201903\_rev2 docker.rdcloud.bms.com:443/rr:gen201903\_rev2

# Push Image

The next step after tagging is to push the image to our registry.

Use this command with the tag you used above

docker push docker.rdcloud.bms.com:443/rr:gen201903\_rev2

# Add To Domino

### **Navigate to the Environments tab**

Click the **Environments** tab in the upper left

### **Create new environment**

Click on the Create Environment button

### **Add Dockerfile Location**

Select **Custom Image** and then enter the url we specified above.

For our example:

docker.rdcloud.bms.com:443/rr:gen201903\_rev2

# **Change Visibility**

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If you want this image available to a larger group, make sure to select that under visibility

# **Add Scripts**

#### **Edit Dockerfile**

Navigate to the Overview tab of your environment and click the **Edit Dockerfile** button

# **Dockerfile Instructions**

In this box add:

```
ENTRYPOINT []
```

# **Pulgable Workspace Tools**

Add:

```
rstudio:
   title: "RStudio"
   iconUrl: "/assets/images/workspace-logos/Rstudio.svg"
   start: [ "/var/opt/workspaces/rstudio/start" ]
   httpProxy:
        port: 8888
jupyterlab:
   title: "JupyterLab"
   start: [ /var/opt/workspaces/Jupyterlab/start.sh ]
   httpProxy:
        internalPath:
/{{ownerUsername}}/{{projectName}}/{{sessionPathComponent}}/{{runId}}
        port: 8888
        rewrite: false
jupyter:
 title: "Jupyter (Python, R, Julia)"
 iconUrl: "https://raw.github.com/dominodatalab/workspace-
configs/develop/workspace-logos/Jupyter.svg?sanitize=true"
 start: [ "/var/opt/workspaces/jupyter/start" ]
 httpProxy:
   port: 8888
   rewrite: false
   internalPath: "/tree/"
 supportedFileExtensions: [ ".ipynb" ]
```

### **Run Setup Scripts**

Pre Run Script

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```
smount -v
if [ -f $DOMINO_WORKING_DIR/.setup/prerun.sh ]
then
    source $DOMINO_WORKING_DIR/.setup/prerun.sh
    echo "Ran project prerun.sh"
else
    echo "No prerun.sh found in " $DOMINO_WORKING_DIR/.setup
fi
```

# Post Run Script

```
/usr/local/bin/save-settings

if [ -f $DOMINO_WORKING_DIR/.setup/postrun.sh ]
then
    source $DOMINO_WORKING_DIR/.setup/postrun.sh
    echo "Ran project postrun.sh"
else
    echo "No postrun.sh found in " $DOMINO_WORKING_DIR/.setup
fi
```

# **Advance Settings**

# **Pre Setup Run Script**

```
/usr/local/bin/load-settings
```

# **Docker Arguments**

You have to request to support@dominodatalab.com to add the following docker args to the environment:

```
--cap-add=SYS_ADMIN
--device=/dev/fuse
--security-opt=apparmor:unconfined
--cap-add=DAC_READ_SEARCH
```

# Test

Now that you have made the environment, start up a project using it to verify that it is complete.