



The image displays two screenshots from a Linux environment. The top screenshot is a terminal window showing the process of building a Docker image for an MLflow experiment. The user is in a directory `/mnt/c/users/chely/downloads/spring/s2/mlops/labs/lab4` and has created a directory `mlflow_test`. They have edited a `Dockerfile` and are now building the image with the command `docker build -t mlflow-minikube .`. The build process is shown in progress, with various steps like loading build definition, transferring Dockerfile, and resolving dependencies. The bottom screenshot shows the MLflow web interface in a browser. The URL is `localhost:5000/#/experiments/0?searchFilter=&orderByKey=attributes.start_time&orderByAsc=false&startTime=ALL&lifecycleFilter=Active&modeVersionFilter=All+Runs&datasetsFilter=W10%3D`. The interface shows a list of experiments, with the 'Default' experiment selected. The 'Runs' tab is active, and a table of runs is displayed. The table has columns for 'Run Name', 'Created', 'Dataset', 'Duration', 'Source', and 'Models'. The table is currently empty, and a message states 'No runs logged'.

```
(base) czt@BobsBurger:~$ cd /mnt/c/users/chely/downloads/spring/s2/mlops/labs/lab4
(base) czt@BobsBurger:/mnt/c/users/chely/downloads/spring/s2/mlops/labs/lab4$ mkdir mlflow_test
(base) czt@BobsBurger:/mnt/c/users/chely/downloads/spring/s2/mlops/labs/lab4$ cd mlflow_test
(base) czt@BobsBurger:/mnt/c/users/chely/downloads/spring/s2/mlops/labs/lab4/mlflow_test$ touch Dockerfile
(base) czt@BobsBurger:/mnt/c/users/chely/downloads/spring/s2/mlops/labs/lab4/mlflow_test$ vim Dockerfile
(base) czt@BobsBurger:/mnt/c/users/chely/downloads/spring/s2/mlops/labs/lab4/mlflow_test$ docker build -t mlflow-minikube .
[+] Building 275.9s (7/7) FINISHED
=> [internal] load build definition from Dockerfile                                0.2s
=> => transferring dockerfile: 161B                                              0.1s
=> [internal] load metadata for docker.io/library/python:3.10-slim              2.3s
=> [auth] library/python:pull token for registry-1.docker.io                    0.0s
=> [internal] load .dockerignore                                                 0.1s
=> => transferring context: 2B                                                    0.0s
=> [1/2] FROM docker.io/library/python:3.10-slim@sha256:65c843653848a3ba22c8d5883a02 0.0s
=> => resolve docker.io/library/python:3.10-slim@sha256:65c843653848a3ba22c8d5883a02 0.1s
=> => sha256:fcc78f5313aeb803973d1c97a39d7ce576e349a2cc44fc655bf9 15.65MB / 15.65MB 2.7s
=> => sha256:c96cb1c893456d3b64ac93cbebbba12262429b64eca53584506f09ae 3.51MB / 3.51MB 1.1s
=> => sha256:296fce9bbfedcelcc78818c9d0632f7e6f06c35278be1c3b0d979cd2b6b 251B / 251B 0.4s
=> => sha256:8a628cd47ccc81e9b5a95888fcb8ac24b991141176c515ad101f 28.23MB / 28.23MB 4.1s
=> => extracting sha256:8a628cd47ccc81e9b5a95888fcb8ac24b991141176c515ad101f 2.4s
=> => extracting sha256:c96cb1c893456d3b64ac93cbebbba12262429b64eca53584506f09ae 2.3s
=> => extracting sha256:fcc78f5313aeb803973d1c97a39d7ce576e349a2cc44fc655bf9 1.3s
=> => extracting sha256:296fce9bbfedcelcc78818c9d0632f7e6f06c35278be1c3b0d979cd2b6b 0.0s
=> [2/2] RUN pip install mlflow                                                136.0s
=> => exporting to image                                                         120.2s
=> => exporting layers                                                         96.0s
=> => exporting manifest sha256:4b0c04081370e49daebb9427b0809b2bfe289dacefe183d0c842 0.0s
=> => exporting config sha256:ee71c32aa48298adf66708c99dcfe4c8be8410603a47906f592cde 0.0s
=> => exporting attestation manifest sha256:4cf864f31112105d760b8de0c4bc2f3bbf2278aa 0.1s
=> => exporting manifest list sha256:30bf7e0952804c19f022fab90d44e7a123ac35e8e24ac24 0.0s
=> => naming to docker.io/library/mlflow-minikube:latest                       0.0s
=> => unpacking to docker.io/library/mlflow-minikube:latest                    31.9s
(base) czt@BobsBurger:/mnt/c/users/chely/downloads/spring/s2/mlops/labs/lab4/mlflow_test$
```

MLflow 2.21.3 Experiments Models Prompts

Experiments

Search experiments

Default

Default Provide Feedback Add Description

Runs Evaluation Experimental Traces

metrics.rmse < 1 and params.model = "tree"

Time created State Active Datasets Sort: Created Columns Group by New run

Run Name	Created	Dataset	Duration	Source	Models
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No runs logged

No runs have been logged yet. Learn more about how to create ML model training runs in this experiment.

0 matching runs

Kubernetes Dashboard

127.0.0.1:46357/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/#/deployment?namespace=default

kubernetes default Search

Workloads > Deployments

Workloads

- Cron Jobs
- Daemon Sets
- Deployments
- Jobs
- Pods
- Replica Sets
- Replication Controllers
- Stateful Sets

Service

- Ingresses
- Ingress Classes
- Services

Config and Storage

- Config Maps
- Persistent Volume Claims
- Secrets
- Storage Classes

Cluster

- Cluster Role Bindings
- Cluster Roles
- Events

Deployments

Name	Images	Labels	Pods	Created
milflow-deployment	milflow-minikube	-	1 / 1	a minute ago

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Kubernetes Dashboard

127.0.0.1:46357/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/#/pod?namespace=default

kubernetes default Search

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Pods

Name	Images	Labels	Node	Status	Restarts	CPU Usage (cores)	Memory Usage (bytes)	Created
milflow-deployment-655dc78c7-7128n	milflow-minikube	app: milflow pod-template-hash: 655dc78c7	minikube	Running	0	-	-	2 minutes ago

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Kubernetes Dashboard

127.0.0.1:46357/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard/proxy/#/service?namespace=default

kubernetes

default

Search

Service > Services

Workloads

- Cron Jobs
- Daemon Sets
- Deployments
- Jobs
- Pods
- Replica Sets
- Replication Controllers
- Stateful Sets

Service

- Ingresses
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Cluster

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- Events

Services

Name	Labels	Type	Cluster IP	Internal Endpoints	External Endpoints	Created ↑
miflow-service	-	NodePort	10.98.99.245	miflow-service:5000 TCP miflow-service:30000 TCP	-	2 minutes ago
kubernetes	component: apiserver provider: kubernetes	ClusterIP	10.96.0.1	kubernetes:443 TCP kubernetes:0 TCP	-	9 minutes ago

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MLflow

127.0.0.1:44661/#/experiments/0?searchFilter=&orderByKey=attributes.start\_time&orderByAsc=false&startTime=ALL&lifecycleFilter=Active&modelVersionFilter=All+Runs&datasetsFilter=W10%3D

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No runs logged

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0 matching runs

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