

**Team number: 27**

**Team members:**

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```
Command Prompt
Microsoft Windows [Version 10.0.26100.3613]
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C:\Users\DELL ADMIN>helm version
version.BuildInfo{Version:"v3.17.3", GitCommit:"e4da49785aa6e6ee2b86efd5dd9e43400318262b", GitTreeState:"clean", GoVersion:"go1.23.7"}

C:\Users\DELL ADMIN>helm repo add mlrun-ce https://mlrun.github.io/ce
"mlrun-ce" has been added to your repositories

C:\Users\DELL ADMIN>helm repo update
Hang tight while we grab the latest from your chart repositories...
...Successfully got an update from the "mlrun-ce" chart repository
Update Complete. ☺Happy Helming!☺

C:\Users\DELL ADMIN>kubectl create namespace mlrun
Unable to connect to the server: dial tcp 127.0.0.1:6443: connectex: No connection could be made because the target machine actively refused it.

C:\Users\DELL ADMIN>kubectl create namespace mlrun
Unable to connect to the server: dial tcp 127.0.0.1:6443: connectex: No connection could be made because the target machine actively refused it.

C:\Users\DELL ADMIN>kubectl create namespace mlrun
Error from server (AlreadyExists): namespaces "mlrun" already exists

C:\Users\DELL ADMIN>

C:\Users\DELL ADMIN>
C:\Users\DELL ADMIN>
C:\Users\DELL ADMIN>kubectl --namespace mlrun create secret docker-registry registry-credentials --docker-server https://index.docker.io/v1/ --docke
r-username manasa393 --docker-password lorDsiva@10 --docker-email 23110193@iitgn.ac.in
secret/registry-credentials created

C:\Users\DELL ADMIN>

C:\Users\DELL ADMIN>helm --namespace mlrun install mlrun-ce --wait --timeout 1800s --set global.registry.url=index.docker.io/saileshpanda97 --set gl
obal.registry.secretName=registry-credentials --set kube-prometheus-stack.enabled=false mlrun-ce/mlrun-ce
```

-After running this command, we got the output showing a structure like given below,

NAME: mlrun-ce

LAST DEPLOYED: time

NAMESPACE: mlrun

STATUS: deployed

REVISION: 1

TEST SUITE: None.

-We run the helm list --namespace mlrun command in the image below to see the status.

```
e is "mlrun"
PS C:\Users\DELL ADMIN> Get-History

Id CommandLine
--
1 helm --namespace mlrun install mlrun-ce --wait --timeout 1800s --set global.registry.url=index.docker.io/saileshpanda97 --set global.regist...
2 helm --namespace mlrun install mlrun-ce --wait --timeout 1800s --set global.registry.url=index.docker.io/manasa393 --set global.registry.se...
3 helm --namespace mlrun1 install mlrun-ce --wait --timeout 1800s --set global.registry.url=index.docker.io/manasa393 --set global.registry.s...

PS C:\Users\DELL ADMIN> helm list --namespace mlrun
NAME          NAMESPACE REVISION   UPDATED              STATUS      CHART          APP VERSION
mlrun-ce      mlrun      1          2025-04-14 00:30:38.3401816 +0530 IST    deployed   mlrun-ce-0.7.3

PS C:\Users\DELL ADMIN> |
```

```
operations: ["CREATE", "UPDATE"]
timeoutSeconds: 10

PS C:\Users\DELL ADMIN> kubectl -n mlrun get events
LAST SEEN   TYPE      REASON          OBJECT                                          MESSAGE
58m         Normal    Scheduled        pod/metadatas-envoy-deployment-86b9c85656-2sqbc    Successfully assigned mlrun/metadatas-envoy-dep
loyment-86b9c85656-2sqbc to docker-desktop
58m         Normal    Pulled           pod/metadatas-envoy-deployment-86b9c85656-2sqbc    Container image "gcr.io/ml-pipeline/metadatas-e
nvoy:1.8.3" already present on machine
58m         Normal    Created          pod/metadatas-envoy-deployment-86b9c85656-2sqbc    Created container: container
57m         Normal    Started          pod/metadatas-envoy-deployment-86b9c85656-2sqbc    Started container container
59m         Normal    Killing          pod/metadatas-envoy-deployment-86b9c85656-6d76v    Stopping container container
58m         Normal    SuccessfulCreate  replicaset/metadatas-envoy-deployment-86b9c85656    Created pod: metadatas-envoy-deployment-86b9c85
656-2sqbc
58m         Normal    ScalingReplicaSet  deployment/metadatas-envoy-deployment            Scaled up replica set metadatas-envoy-deploymen
t-86b9c85656 from 0 to 1
59m         Normal    Killing          pod/metadatas-grpc-deployment-5dfd66bb8d-q2mw9    Stopping container container
58m         Normal    Scheduled        pod/metadatas-grpc-deployment-5dfd66bb8d-s54tp    Successfully assigned mlrun/metadatas-grpc-depl
oyment-5dfd66bb8d-s54tp to docker-desktop
57m         Normal    Pulled           pod/metadatas-grpc-deployment-5dfd66bb8d-s54tp    Container image "gcr.io/txf-oss-public/ml_meta
data_store_server:1.5.0" already present on machine
57m         Normal    Created          pod/metadatas-grpc-deployment-5dfd66bb8d-s54tp    Created container: container
57m         Normal    Started          pod/metadatas-grpc-deployment-5dfd66bb8d-s54tp    Started container container
57m         Warning   BackOff          pod/metadatas-grpc-deployment-5dfd66bb8d-s54tp    Back-off restarting failed container container
in pod metadatas-grpc-deployment-5dfd66bb8d-s54tp_mlrun(618af25e-3d1e-4f59-a7a3-6eb7ac779a12)
58m         Normal    SuccessfulCreate  replicaset/metadatas-grpc-deployment-5dfd66bb8d    Created pod: metadatas-grpc-deployment-5dfd66bb
8d-s54tp
58m         Normal    ScalingReplicaSet  deployment/metadatas-grpc-deployment            Scaled up replica set metadatas-grpc-deployment
-5dfd66bb8d from 0 to 1
59m         Normal    Killing          pod/metadatas-writer-7b7fc9f477-gkhj4            Stopping container main
58m         Normal    Scheduled        pod/metadatas-writer-7b7fc9f477-vvdrj            Successfully assigned mlrun/metadatas-writer-7b
7fc9f477-vvdrj to docker-desktop
58m         Normal    Pulled           pod/metadatas-writer-7b7fc9f477-vvdrj            Container image "gcr.io/ml-pipeline/metadatas-w
riter:1.8.3" already present on machine
57m         Normal    Created          pod/metadatas-writer-7b7fc9f477-vvdrj            Created container: main
57m         Normal    Started          pod/metadatas-writer-7b7fc9f477-vvdrj            Started container main
58m         Normal    SuccessfulCreate  replicaset/metadatas-writer-7b7fc9f477            Created pod: metadatas-writer-7b7fc9f477-vvdrj
```

```
C:\Users\DELL ADMIN>kubectl -n mlrun get pods
NAME                                READY   STATUS    RESTARTS   AGE
metadatas-envoy-deployment-86b9c85656-2sqbc    1/1     Running   1 (17m ago)    16h
metadatas-grpc-deployment-5dfd66bb8d-s54tp      1/1     Running   4 (16m ago)    16h
metadatas-writer-7b7fc9f477-vvdrj              1/1     Running   1 (17m ago)    16h
minio-65c9b8dc44-j99vx                      1/1     Running   1 (17m ago)    16h
ml-pipeline-5d7998ffc5-wkntt                 1/1     Running   2 (15m ago)    16h
ml-pipeline-persistenceagent-69446f4bdd-k7rkh   1/1     Running   1 (17m ago)    16h
ml-pipeline-scheduledworkflow-8564b98f5b-5ng7g  1/1     Running   1 (17m ago)    16h
ml-pipeline-ui-5d9ff6dc69-xn6dd               1/1     Running   2 (17m ago)    16h
ml-pipeline-viewer-crd-6668f68cd7-62mzb        1/1     Running   2 (16m ago)    16h
ml-pipeline-visualizationserver-6878c5b646-z9qcw  1/1     Running   1 (17m ago)    16h
mlrun-api-chief-6d6868867f-hfxhc              2/2     Running   2 (17m ago)    16h
mlrun-db-6c85956db5-8tvj5                    1/1     Running   1 (17m ago)    16h
mlrun-jupyter-85768bb958-lmv52                1/1     Running   1 (17m ago)    16h
mlrun-ui-744bcb7f44-sb68n                     1/1     Running   1 (17m ago)    16h
mpi-operator-97dd956c5-zrgnr4                 1/1     Running   1 (17m ago)    16h
mysql-9dc78bdd7-wbpg9                         1/1     Running   1 (17m ago)    16h
nuclio-controller-94fff55d7-2kk7t             1/1     Running   1 (17m ago)    16h
nuclio-dashboard-b6cfbc88d-49v6s              1/1     Running   2 (16m ago)    16h
spark-operator-controller-855dc75b69-pgtqq     1/1     Running   2 (16m ago)    16h
spark-operator-webhook-587b54f56-fft6         1/1     Running   2 (16m ago)    16h
workflow-controller-789b47d74-rf9qw            1/1     Running   2 (16m ago)    16h

C:\Users\DELL ADMIN>kubectl -n mlrun port-forward svc/mlrun-api 8080:8080
Forwarding from 127.0.0.1:8080 -> 8080
Forwarding from [::1]:8080 -> 8080
```

```
C:\Users\DELL ADMIN>kubectl -n mlrun get svc mlrun-api
NAME      TYPE      CLUSTER-IP      EXTERNAL-IP      PORT(S)      AGE
mlrun-api NodePort    10.107.2.157     <none>           8080:30070/TCP 17h

C:\Users\DELL ADMIN>curl http://localhost:30070/api/v1/client-spec
{"version":"1.7.2","namespace":"mlrun","docker_registry":"index.docker.io/saileshpanda97","remote_host":"","mpijob_crd_version":"v1","ui_url":"","artifact_path":"s3://mlrun/projects/{{run.project}}/artifacts","feature_store_data_prefixes":{"default":"s3://mlrun/projects/{{project}}/FeatureStore/{name}/{kind}","nosql":"","redisnosql":"redis://{authority}/projects/{{project}}/FeatureStore/{name}/{kind}"},"feature_store_default_targets":{"parquet","spark_app_image":"gcr.io/iguazio/spark-app","spark_app_image_tag":"v3.5.3-mlrun-ce","spark_history_server_path":"","spark_operator_version":"spark-3","kfp_image":"mlrun/mlrun:1.7.2","kfp_url":"http://ml-pipeline.mlrun.svc.cluster.local:8888","dask_kfp_image":"mlrun/ml-base:1.7.2","api_url":"http://mlrun-api:8080","nuclio_version":"1.13.19","ui_projects_prefix":null,"scrape_metrics":null,"default_function_node_selector":null,"igz_version":null,"auto_mount_type":"s3","auto_mount_params":{"aws_access_key":"minio","aws_secret_key":"minio123","endpoint_url":"http://minio.mlrun.svc.cluster.local:9000"},"default_function_priority_class_name":null,"valid_function_priority_class_names":null,"default_tensorboard_logs_path":"/home/jovyan/data/tensorboard/{{project}}","default_function_pod_resources":null,"preemptible_node_selector":null,"preemptible_nodes_tolerations":null,"default_preemption_mode":null,"force_run_local":null,"function":{"spec":{"image_pull_secret":{"default":"registry-credentials"},"security_context":{"default":{"e30=","enrichment_mode":"disabled","enrichment_group_id":"65534","pipelines":{"kfp_pod_user_unix_id":5},"service_account":{"default":"","state_thresholds":{"default":{"pending_scheduled":"1h","pending_not_scheduled":"-1","image_pull_backoff":"1h","executing":"24h"},"reload_max_recursion_depth":100},"application":{"default":{"sidecar_internal_port":8050,"default_authentication_mode":"none"},"databricks":{"artifact_directory_path":"/mlrun_databricks_runtime/artifacts_dictionaries"},"redis_url":"","redis_type":"stand
```

```
Command Prompt - kubectl - X  Windows PowerShell  X  +  -  X

Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\DELL ADMIN> mlrun config set -a http://localhost:8080
Updating configuration in .env file C:\Users\DELL ADMIN/.mlrun.env
PS C:\Users\DELL ADMIN> curl http://localhost:8080/api/v1/client-spec

StatusCode      : 200
StatusDescription : OK
Content         : {"version":"1.7.2","namespace":"mlrun","docker_registry":"index.docker.io/saileshpanda97","remote_host":"","mpijob_crd_version":"v1","ui_url":"","artifact_path":"s3://mlrun/projects/{{run.project}}/ar...
RawContent      : HTTP/1.1 200 OK
                  x-mlrun-be-version: 1.7.2
                  Content-Length: 2469
                  Content-Type: application/json
                  Date: Mon, 14 Apr 2025 12:17:53 GMT
                  Server: uvicorn

                  {"version":"1.7.2","namespace":"mlrun","docker...
Forms           : {}
Headers         : {[x-mlrun-be-version, 1.7.2], [Content-Length, 2469], [Content-Type, application/json], [Date, Mon, 14 Apr 2025 12:17:53 GMT]...}
Images          : {}
InputFields     : {}
Links           : {}
ParsedHtml      : mshtml.HTMLDocumentClass
RawContentLength : 2469

PS C:\Users\DELL ADMIN>
```

Projects > Jobs monitoring

Jobs Workflows Scheduled

Search by name

Past 24 hours

Auto Refresh

Name	Project name	Type	Start time	Duration	Owner	Labels	Parameters
train-model-train-model Apr 14, 2025, 11:16:08 PM ...f8dd5f3	breast-cancer-pipeline-manasa	< >	Apr 14, 2025, ...	00:00:03	Manasa	+ 3	+ 2
data-prep-data-prep Apr 14, 2025, 11:16:05 PM ...873d729	breast-cancer-pipeline-manasa	< >	Apr 14, 2025, ...	00:00:03	Manasa	+ 4	format : csv
data-prep-data-prep Apr 14, 2025, 11:07:54 PM ...7fb5660	breast-cancer-pipeline	< >	Apr 14, 2025, ...	00:00:03	Manasa	+ 4	for... : par...

## Monitoring

In Process Failed Succeeded

Jobs

Past 24 hours

Jobs  
5

0 3 2

See all

Workflows

Past 24 hours

Workflows  
0

0 0 0

See all

Scheduled

Next 24 hours

Jobs  
0

Workflows  
0

Total  
0

See all

See all

See all

## Projects

Active Archived

By name

Search projects...

New Project