

Lesson 09 Demo 05 Understanding Container Logs

Objective: To view and check the container logs within a Kubernetes cluster using the crictl commands

Tools required: kubeadm, kubectl, kubelet, and containerd

Prerequisites: A Kubernetes cluster should already be set up (refer to the steps provided in Lesson 02, Demo 01 for guidance).

Steps to be followed:

1. Check the container logs using the crictl commands

Step 1: Check the container logs using the crictl commands

1.1 Navigate to the worker-node-2 in the LMS dashboard



1.2 Fetch the container ID using the following command: sudo crictl ps -a



1.3 Access and view the container logs for a specific container using the following command:

sudo crictl logs <container-ID>

```
labsuser@morker-mode-2:-$ sudo crictl logs cdfa80d524f8c

% Info 04:34:22.665510 8 feature gate po:24] Setting OA feature gate ServiceInternalTrafficPolicy=true. It will be removed in a future release.

2023-11-06 04:34:22.665 [MFO][8] startup/startup.go 32: Early log level set to info

2023-11-06 04:34:22.666 [MFO][8] startup/startup.go 126: Using MODENAMME environment for node name worker-node-2.example.com

2023-11-06 04:34:22.666 [MFO][8] startup/startup.go 32: Early log level set to info

2023-11-06 04:34:22.666 [MFO][8] startup/startup.go 47: Checking datastore connection

2023-11-06 04:34:22.666 [MFO][8] startup/startup.go 47: Checking datastore connection

2023-11-06 04:34:22.165 [MFO][8] startup/startup.go 47: Checking datastore connection

2023-11-06 04:34:22.181 [MFO][8] startup/startup.go 47: Checking datastore connection

2023-11-06 04:34:22.181 [MFO][8] startup/startup.go 49: Datastore connection verified

2023-11-06 04:34:22.181 [MFO][8] startup/startup.go 49: Datastore is ready

2023-11-06 04:34:22.181 [MFO][8] startup/startup.go 56: No AS number configured on node resource, using global value

2023-11-06 04:34:22.181 [MFO][8] startup/startup.go 56: No AS number configured on node resource, using global value

2023-11-06 04:34:22.181 [MFO][8] startup/startup.go 75: found v4= in the kubeadm config map

2023-11-06 04:34:22.182 [MFO][8] startup/startup.go 75: found v4= in the kubeadm config map

2023-11-06 04:34:22.362 [MFO][8] startup/startup.go 82: Selected default IP pool is '192.168.0.9/16'

2023-11-06 04:34:22.362 [MFO][8] startup/startup.go 82: Selected default IP pool is '192.168.0.9/16'

2023-11-06 04:34:22.362 [MFO][8] startup/startup.go 82: Selected default IP pool is '192.168.0.9/16'

2023-11-06 04:34:22.362 [MFO][8] startup/startup.go 82: Selected default IP pool is '192.168.0.9/16'

2023-11-06 04:34:22.362 [MFO][8] startup/startup.go 82: Selected default IP pool is '192.168.0.9/16'

2023-11-06 04:34:22.362 [MFO][8] startup/startup.go 82: Selected default iP pool is '192.168.0.9/16'

20
```

Note: Replace the <container-ID> with the ID of the container that you copied in step 1.2.

1.4 Retrieve the latest log entry for a specific container using the following command: sudo crictl logs --tail=1 <container-ID>

```
labsuser@worker-node-2:~$ sudo crictl logs --tail=1 cdfa80d524f8c7
2023-11-06 05:15:25.933 [INFO][72] monitor-addresses/autodetection_methods.go 103: Using autodetected IPv4 address on interface ens5: 172.31.20.246/20
labsuser@worker-node-2:~$
```

Note: Replace the **<container-ID>** with the ID of the container that you copied in step **1.2**.

By following these steps, you have successfully demonstrated the effective use of the crictl commands to check container runtime operations.

simpl_ilearn