

# KIP-849: Expose logdirs total and usable space via kafka-log-dirs.sh

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## Status

**Current state:** *Under Discussion*

**Discussion thread:**

**JIRA:**

**Released:**

Please keep the discussion on the mailing list rather than commenting on the wiki (wiki discussions get unwieldy fast).

## Motivation

In KIP-827 we exposed logdirs total and usable space via Kafka API, we can also expose this through kafka-log-dirs.sh.

## Public Interfaces

Currently, we output the logDir info in the form of a JSON, here is an example:

```
{
  "version":1,
  "brokers":[
    {
      "broker":1,
      "logDirs":[
        {
          "logDir":"/tmp/kraft-combined-logs",
          "error":null,
          "partitions":[
            {
              "partition":"foo-0",
              "size":0,
              "offsetLag":0,
              "isFuture":false
            }
          ]
        }
      ]
    }
  ]
}
```

we are just adding totalBytes and usableBytes to every json entity in \$.brokers.logDirs, and bumping the \$.version to 2.

## Proposed Changes

We already have a LogDirsCommand which can be used to get the logdirs and details about the replicas they contain, here is the demo:

```
bin/kafka-log-dirs.sh --bootstrap-server localhost:9092 --topic-list foo --describe
```

Querying brokers for log directories information

Received log directory information from brokers 1

```
{
  "version":1,
  "brokers":[
    {
      "broker":1,
      "logDirs":[
        {
          "logDir":"/tmp/kraft-combined-logs",
          "error":null,
          "partitions":[
            {
              "partition":"foo-0",
              "size":0,
              "offsetLag":0,
              "isFuture":false
            }
          ]
        }
      ]
    }
  ]
}
```

we are just adding totalBytes and usableBytes to every json entity in logDirs, and set version=2, here is an demo:

```
bin/kafka-log-dirs.sh --bootstrap-server localhost:9092 --topic-list foo --describe
```

Querying brokers for log directories information

Received log directory information from brokers 1

```
{
  "version":2,
  "brokers":[
    {
      "broker":1,
      "logDirs":[
        {
          "logDir":"/tmp/kraft-combined-logs",
          "totalBytes":{
            "empty":false,
            "present":true,
            "asLong":245107195904
          },
          "error":null,
          "usableBytes":{
            "empty":false,
            "present":true,
            "asLong":16010731520
          },
          "partitions":[
            {
              "partition":"foo-0",
              "size":0,
              "offsetLag":0,
              "isFuture":false
            }
          ]
        }
      ]
    }
  ]
}
```

## Compatibility, Deprecation, and Migration Plan

This change only added 2 fields to JSON schema so it's expected to be compatible.

## Test Plan

*Test locally using a local Kafka cluster.*

## Rejected Alternatives