DrDroid

# Loki Cheatsheet

## Connection

**logcli --addr=LOKI_URL query '{job="job_name"}'**
Connect to Loki server and run a basic query

**logcli --addr=http://localhost:3100 query '{job="job_name"}'**
Connect to local Loki instance

## Basic Querying

**logcli query '{job="job_name"}'**
Query logs by job name

**logcli query '{container="container_name"}'**
Query logs by container name

**logcli query '{namespace="kube-system"}'**
Query logs by Kubernetes namespace

**logcli query '{job="job_name"} |= "error"'**
Query logs containing the word 'error'

## Advanced Querying

**logcli query '{job="job_name"} |= "error" != "timeout"'**
Logs with 'error' but not 'timeout'

**logcli query '{job="job_name"} |~ "error.*timeout"'**
Regex matching for patterns

**logcli query '{job="job_name"} |= "error" | json'**
Parse logs as JSON

**logcli query '{job="job_name"} | json | field_name="value"'**
Filter on parsed JSON fields

**logcli query --since=1h '{job="job_name"}'**
Logs from the last hour

**logcli query --from=2023-01-01T10:00:00Z --to=2023-01-01T11:00:00Z '{job="job_name"}'**
Time range query

## Log Processing

**logcli query '{job="job_name"} | logfmt'**
Parse logs in logfmt format

**logcli query '{job="job_name"} | json | line_format "{{.field_name}}"'**
Format output to show specific fields

**logcli query '{job="job_name"} | pattern "<pattern>"'**
Extract fields using pattern matching

## Aggregation & Analytics

**logcli query 'rate({job="job_name"}[5m])'**
Calculate rate of logs over 5 minute window

**logcli query 'sum(count_over_time({job="job_name"}[5m])) by (level)'**
Count logs grouped by level

**logcli query 'count_over_time({job="job_name"} |= "error"[5m])'**
Count error occurrences over time

## Output Controls

**logcli query --limit=100 '{job="job_name"}'**
Limit the number of results

**logcli query --tail '{job="job_name"}'**
Stream logs in real-time (tail)

**logcli query --output=raw '{job="job_name"}'**
Output raw log lines without timestamps

**logcli query --output=jsonl '{job="job_name"}'**
Output logs as JSON lines