

Kafka Topic Cheatsheet

Connection

```
kafka-console-consumer.sh --bootstrap-server  
<broker1:port,broker2:port> --topic <topic_name>  
Connect as a consumer to a Kafka topic
```

```
kafka-console-producer.sh --broker-list  
<broker1:port,broker2:port> --topic <topic_name>  
Connect as a producer to a Kafka topic
```

Topic Management

```
kafka-topics.sh --bootstrap-server <broker:port> --  
list  
List all available topics
```

```
kafka-topics.sh --bootstrap-server <broker:port> --  
create --topic <topic_name> --partitions <num> --  
replication-factor <num>  
Create a new topic
```

```
kafka-topics.sh --bootstrap-server <broker:port> --  
delete --topic <topic_name>  
Delete a topic
```

```
kafka-topics.sh --bootstrap-server <broker:port> --  
describe --topic <topic_name>  
View details of a specific topic
```

Consumer Operations

```
kafka-console-consumer.sh --bootstrap-server  
<broker:port> --topic <topic_name> --from-  
beginning  
Read all messages from the beginning of a topic
```

```
kafka-console-consumer.sh --bootstrap-server  
<broker:port> --topic <topic_name> --group  
<consumer_group>  
Consume messages as part of a consumer group
```

```
kafka-consumer-groups.sh --bootstrap-server  
<broker:port> --list  
List all consumer groups
```

```
kafka-consumer-groups.sh --bootstrap-server  
<broker:port> --describe --group <group_name>  
Show consumer group details including lag
```

Producer Operations

```
kafka-console-producer.sh --broker-list  
<broker:port> --topic <topic_name>  
Write messages to a topic
```

```
kafka-console-producer.sh --broker-list  
<broker:port> --topic <topic_name> --property  
parse.key=true --property key.separator=:  
Produce messages with keys
```

Monitoring & Diagnostics

```
kafka-consumer-groups.sh --bootstrap-server  
<broker:port> --all-groups --describe  
Check lag for all consumer groups
```

```
kafka-topics.sh --bootstrap-server <broker:port> --  
describe --under-replicated-partitions  
List under-replicated partitions
```

```
kafka-configs.sh --bootstrap-server <broker:port> --  
entity-type topics --entity-name <topic_name> --  
describe  
Show topic configuration
```

Configuration

```
kafka-configs.sh --bootstrap-server <broker:port> --  
entity-type topics --entity-name <topic_name> --  
alter --add-config <key>=<value>  
Update topic configuration
```

```
kafka-configs.sh --bootstrap-server <broker:port> --  
entity-type topics --entity-name <topic_name> --  
alter --delete-config <key>  
Remove a topic configuration parameter
```