

KIP-325: Extend Consumer Group Command to Show Beginning Offsets

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Status

Current state: *Voting In Progress*

Discussion thread: [here](#)

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JIRA:  Unable to render Jira issues macro, execution error.

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

Motivation

The consumer group command, when used for describing a consumer group in the default or `--offsets mode`, currently reports current offset, log end offset, and the lag for each topic partition the group has offset for. It would be useful to extend the tool to also report the beginning offset for each partition. They could help with determining where the group stands with respect to consuming from the partition, whether it is consuming OK or is falling behind, what percentage of messages are consumed, whether the partition is empty, etc. The beginning or earliest log offset is not something that can be derived from the provided info.

Public Interfaces

The consumer group tool will be updated for `--describe` and `--describe --offsets` options by adding a `LOG-START-OFFSET` column.

Proposed Changes

No protocol change is required as the log start offset is readily available (similar to how log end offset is retrieved). The output of the command for `--describe` and `--describe --offsets` options will change from something like this:

```
$ bin/kafka-consumer-groups.sh --bootstrap-server localhost:9092 --describe --group my-group
```

TOPIC	PARTITION	CURRENT-OFFSET	LOG-END-OFFSET	LAG	CONSUMER-
ID		HOST		CLIENT-ID	
my-topic	0	16577	33154	16577	consumer1-81fe8a2a-0b29-4964-a1d4-4741582132bb
my-topic	1	16578	33155	16577	consumer1-81fe8a2a-0b29-4964-a1d4-4741582132bb
my-topic	2	16577	33155	16578	consumer2-db6f12f2-e1de-4bb7-93ec-6170fefa8830
my-second-topic	0	33023	44543	11520	consumer7-c1d056fa-eabc-42ed-b557-c848f747ec49
my-other-topic	1	7901	8652	751	-
my-other-topic	0	7902	8654	752	-

to something like this:

```
$ bin/kafka-consumer-groups.sh --bootstrap-server localhost:9092 --describe --group my-group
```

TOPIC	PARTITION	CURRENT-OFFSET	LOG-START-OFFSET	LOG-END-OFFSET	LAG	CONSUMER-ID
ID	HOST			CLIENT-ID		
my-topic	0	16577	9856	33154	16577	
consumer1-81fe8a2a-0b29-4964-a1d4-4741582132bb		/127.0.0.1		consumer1		
my-topic	1	16578	9828	33155	16577	
consumer1-81fe8a2a-0b29-4964-a1d4-4741582132bb		/127.0.0.1		consumer1		
my-topic	2	16577	9847	33155	16578	
consumer2-db6f12f2-e1de-4bb7-93ec-6170fef8830		/127.0.0.1		consumer2		
my-second-topic	0	33023	18484	44543	11520	
consumer7-c1d056fa-eabc-42ed-b557-c848f747ec49		/127.0.0.1		consumer7		
my-other-topic	1	7901	0	8652	751	
-		-	-	-		
my-other-topic	0	7902	0	8654	752	
-		-	-	-		

Compatibility, Deprecation, and Migration Plan

Users who use the consumer group command (e.g. in custom tools) and somehow rely on parsing the output of the `--describe` or `--describe --offsets` options of the command may have to adjust their clients to account for this new column.

Rejected Alternatives

N/A.