

KIP-638: Deprecate DescribeLogDirsResponse.[LogDirInfo, ReplicaInfo]

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Status

Current state: *"Rejected"*

Discussion thread: [here](#)

JIRA: [KAFKA-8794](#)

Released: <Kafka Version>

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

Motivation

As of 2.6, there is a glitch in Admin#describeLogDirs method. This method returns DescribeLogDirsResult, whose methods return org.apache.kafka.common.requests.DescribeLogDirsResponse.LogDirInfo instances (which in turn contains DescribeLogDirsResponse.ReplicaInfo instances.) However, org.apache.kafka.common.requests package is not a public package; as a result, [the Javadoc of DescribeLogDirsResult class](#) does not provide any information about the LogDirInfo class.

Method Summary

All Methods	Instance Methods	Concrete Methods
Modifier and Type		Method and
KafkaFuture<Map<Integer, Map<String, org.apache.kafka.common.requests.DescribeLogDirsResponse.LogDirInfo>>>		all() Return a fu have respor
Map<Integer, KafkaFuture<Map<String, org.apache.kafka.common.requests.DescribeLogDirsResponse.LogDirInfo>>>		values() Return a m: used to che individual b

The API itself is still callable, but this glitch makes the users of this API call have to make a rough guess about how to use this class.

DescribeLogDirsResponse.[LogDirInfo, ReplicaInfo] are intended to be used as a internal class. So, it would be better to hide these classes from the public and provide other public classes instead.

Public Interfaces

For the consistency with other Result classes (e.g., DescribeReplicaLogDirsResult), DescribeLogDirsResult now provides the following inner classes: LogDirInfo, ReplicaInfo. Each of them inherits DescribeLogDirsResponse.LogDirInfo, DescribeLogDirsResponse.ReplicaInfo for backward compatibility.

```

public class DescribeLogDirsResult {
    ...

    /**
     * State of a LogDir, (possibly) with an error code. Possible error codes are:
     * <p><ul>
     *   <li>KAFKA_STORAGE_ERROR (56)
     *   <li>UNKNOWN (-1)
     * </ul><p>
     */
    static public class LogDirInfo extends DescribeLogDirsResponse.LogDirInfo {
        public LogDirInfo(Errors error, Map<TopicPartition, ReplicaInfo> replicaInfos) {
            ...
        }
    }

    /**
     * State of a replica.
     */
    static public class ReplicaInfo extends DescribeLogDirsResponse.ReplicaInfo {
        public ReplicaInfo(long size, long offsetLag, boolean isFuture) {
            ...
        }
    }
}

```

Proposed Changes

- `DescribeLogDirsResponse.LogDirInfo` is now deprecated, in favor of `DescribeLogDirsResult.LogDirInfo`.
- `DescribeLogDirsResponse.ReplicaInfo` is now deprecated, in favor of `DescribeLogDirsResult.ReplicationInfo`.
- `DescribeLogDirsResponse.LogDirInfo.replicaInfos` is also deprecated in favor of `DescribeLogDirsResult.LogDirInfo.tpToReplicaInfos`.

```

public class DescribeLogDirsResponse extends AbstractResponse {
    ...

    /**
     * State of a LogDir, (possibly) with an error code. Possible error codes are:
     * <p><ul>
     *   <li>KAFKA_STORAGE_ERROR (56)
     *   <li>UNKNOWN (-1)
     * </ul><p>
     *
     * @deprecated Since 2.6. Use {@link org.apache.kafka.clients.admin.DescribeLogDirsResult.LogDirInfo} instead.
     */
    @Deprecated
    static public class LogDirInfo {
        public final Errors error;

        /**
         * @deprecated Since 2.6. Use {@link LogDirInfo#tpToReplicaInfos} instead.
         */
        @Deprecated
        public final Map<TopicPartition, ReplicaInfo> replicaInfos;

        public final Map<TopicPartition, org.apache.kafka.clients.admin.DescribeLogDirsResult.ReplicaInfo>
        tpToReplicaInfos;
        ...
    }

    /**
     * State of a replica.
     *
     * @deprecated Since 2.6. Use {@link org.apache.kafka.clients.admin.DescribeLogDirsResult.ReplicaInfo}
    instead.
    */
    @Deprecated
    static public class ReplicaInfo {
        ...
    }
}

```

The return type of `DescribeLogDirsResult#[all, values]` are not changed. Instead, they now return `DescribeLogDirsResult.LogDirInfo` instances instead of `DescribeLogDirsResponse.LogDirInfo`. The return type change is a future work.

Compatibility, Deprecation, and Migration Plan

Since the new classes inherit the older classes, there will be no code-breaking. Instead, the users will be informed to change the old code with deprecation warnings and Javadoc notes.

Test Plan

None.

Rejected Alternatives

None.