

DescribeAclResponse

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DescribeAclResponse

Kind: Interface

Source: `packages/microservices/external/kafka.interface.ts`

Part of: [Microservices](#)

`DescribeAclResponse` represents the response payload returned from a Kafka ACL describe operation. It captures request throttling and error details alongside the ACL resources that matched the query.

Properties

Property	Type
<code>throttleTime</code>	<code>number</code>
<code>errorCode</code>	<code>number</code>
<code>errorMessage</code>	<code>string</code>
<code>resources</code>	<code>DescribeAclResource[]</code>

Diagram

```
graph LR
  A[Kafka Describe ACL Request] --> B[DescribeAclResponse]
  B --> C[throttleTime: number]
  B --> D[errorCode: number]
  B --> E[errorMessage: string]
  B --> F[resources: DescribeAclResource[]]
  F --> G[Matched ACL resources and entries]
```

Usage

```
import type { DescribeAclResponse } from './kafka.interface';

function handleDescribeAclResponse(response: DescribeAclResponse): void {
  if (response.errorCode !== 0) {
    throw new Error(
      `Kafka ACL lookup failed (${response.errorCode}): ${response.errorMessage}`,
    );
  }

  console.log(`Request throttled for ${response.throttleTime}ms`);

  for (const resource of response.resources) {
    console.log('ACL resource:', resource);
  }
}

// Example response received from a Kafka client or protocol handler.
const response: DescribeAclResponse = {
  throttleTime: 0,
  errorCode: 0,
  errorMessage: '',
  resources: [],
};

handleDescribeAclResponse(response);
```

AI Coding Instructions

- Check `errorCode` before consuming `resources` ; a non-zero code indicates the broker could not complete the request.
- Preserve `throttleTime` from the Kafka response so callers can observe or react to broker throttling.
- Treat `resources` as the authoritative list of ACL resources returned by the broker, including an empty array for no matches.
- Keep this interface aligned with the Kafka protocol response shape and the related `DescribeAclResource` definition.

How it works

`DescribeAclResponse` is an exported TypeScript interface representing the declared result type of `Admin.describeAcls(options)` , which returns `Promise<DescribeAclResponse>` . The method accepts an `AclFilter` ; this interface itself declares no runtime logic, validation, thrown errors, or side effects.

[packages/microservices/external/kafka.interface.ts:462-467](#)

[packages/microservices/external/kafka.interface.ts:502-561](#)

It has these required fields:

- `throttleTime: number` [packages/microservices/external/kafka.interface.ts:462-464](#)
- `errorCode: number` [packages/microservices/external/kafka.interface.ts:462-465](#)
- `resources: DescribeAclResource[]`
[packages/microservices/external/kafka.interface.ts:462-467](#)

It also has an optional `errorMessage?: string`, so an instance may omit that field.

[packages/microservices/external/kafka.interface.ts:462-466](#)

Each `resources` element is a `DescribeAclResource`: an ACL resource identifier plus an `acls` array. Its inherited resource fields are:

- `resourceType: AclResourceTypes`
- `resourceName: string`
- `resourcePatternType: ResourcePatternTypes`

and it adds `acls: Acl[]`. [packages/microservices/external/kafka.interface.ts:450-460](#)

Each ACL in that array has a string `principal`, string `host`, `operation:`

`AclOperationTypes`, and `permissionType: AclPermissionTypes`.

[packages/microservices/external/kafka.interface.ts:443-448](#) The declared enum domains include resource types such as `TOPIC`, `GROUP`, and `CLUSTER`; operation types such as `READ`, `WRITE`, and `DESCRIBE`; permission types `DENY` and `ALLOW`; and resource pattern types including `LITERAL` and `PREFIXED`.

[packages/microservices/external/kafka.interface.ts:285-293](#)

[packages/microservices/external/kafka.interface.ts:312-341](#)