# Client

Obol SDKClient can be used for creating, managing and activating distributed validators.

## Extends

- Base

## Constructors

### new Client(config, signer)

new Client (config ,signer ?):[Client](#)

#### Parameters

Parameter Type Description config Object config.baseUrl ? string - config.chainId ? number - signer ? Signer ethersJS Signer

#### Returns

[Client](#)

Obol-SDK Client instance

An example of how to instantiate obol-sdk Client[obolClient](#)

#### Overrides

Base.constructor

#### Source

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## Properties

Property Modifier Type Inherited from baseUrl public string Base.baseUrl chainId public number Base.chainId fork_version public string Base.fork_version signer private undefined |Signer -

## Methods

### createClusterDefinition()

createClusterDefinition (newCluster ):Promise <string

> Creates a cluster definition which contains cluster configuration.

#### Parameters

Parameter Type Description newCluster [ClusterPayload](#) The new unique cluster.

#### Returns

Promise <string

config_hash.

#### Throws

On duplicate entries, missing or wrong cluster keys.

An example of how to use createClusterDefinition[createObolCluster](#)

**Source**

index.ts:42

## getClusterDefinition()

getClusterDefinition (configHash ):Promise <[ClusterDefintion](#)

**Parameters**

Parameter Type configHash string

**Returns**

Promise <[ClusterDefintion](#)

The cluster definition for config hash

**Throws**

On not found config hash.

An example of how to use getClusterDefinition[getObolClusterDefinition](#)

**Source**

index.ts:132

## getClusterLock()

getClusterLock (configHash ):Promise <[ClusterLock](#)

**Parameters**

Parameter Type configHash string

**Returns**

Promise <[ClusterLock](#)

The matched cluster details (lock) from DB

**Throws**

On not found cluster definition or lock.

An example of how to use getClusterLock[getObolClusterLock](#)

**Source**

index.ts:148

## request()

protected request <T

(endpoint ,options ?):Promise <T

**Type parameters**

Type parameter T

**Parameters**

Parameter Type endpoint string options ? RequestInit

**Returns**

Promise <T

**Inherited from**

Base.request

**Source**

base.ts:23

## updateClusterDefinition()

updateClusterDefinition (operatorPayload ,configHash ):Promise <ClusterDefintion

Approves joining a cluster with specific configuration.

**Parameters**

Parameter Type Description operatorPayload OperatorPayload The operator data including signatures. configHash string The config hash of the cluster which the operator confirms joining to.

**Returns**

Promise <ClusterDefintion

The cluster definition.

**Throws**

On unauthorized, duplicate entries, missing keys, not found cluster or invalid data.

An example of how to use updateClusterDefinition updateClusterDefinition

**Source**

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