

PoolAddressesProvider

PoolAddressesProvider

Addresses register of the protocol for a particular market. This contract is immutable and the address will never change.

Whenever the Pool contract is needed, we recommended you fetch the correct address from the PoolAddressesProvider smart contract. The source code can be [found on Github](#)

View Methods

getMarketId

function getMarketId() external view override returns (string memory)

Fetch the market id of the associated Aave market.

Return Values

Type Description string A string representation of the market

getAddress

function getAddress(bytes32 id) public view override returns (address)

Fetch the address of protocol contract stored at given id.

Call Params

Name Type Description id bytes32 id. Example, the Protocol Data Provider uses id 0x1 Return Values

Type Description address The address associated with the bytes32 id passed ```

```
Copy // Get address of incentive controller import{ utils }from '@ethers/lib/utils';
```

```
const id=utils.keccak256(utils.toUtf8Bytes("INCENTIVES_CONTROLLER"));
const address=poolAddressProvider.getAddress(id);
```

```
```
```

#### getPool

function getPool() external view override returns (address)

Fetch the contract of latest pool

#### Return Values

Type Description address The address of the associated Pool

#### getPoolConfigurator

function getPoolConfigurator() external view override returns (address)

Fetch the PoolConfigurator is used for configuration methods, like init reserves or update token implementation etc, of the market.

#### Return Value

Type Description address The address of associated market's PoolConfigurator

#### getPriceOracle

function getPriceOracle() external view override returns (address)

Fetch Price Oracle used by the market.

#### Return Value

Type Description address The address of the price oracle used by associated market.

#### getACLManager

function getACLManager() external view override returns (address)

Fetch ACLManager that manages the system role of the market

Return Value

Type Description address The address of the ACLManager contract managing the system role of the associated market.

getACLAdmin

function getACLAdmin() external view override returns (address)

Fetch ACLAdmin of the market which holds theDEFAULT\_ADMIN\_ROLE in ACLManager.

Return Value

Type Description address The address of the access control list admin of the associated market.

getPriceOracleSentinel

function getPriceOracleSentinel() external view override returns (address)

Return Value

Type Description address The address of the Price oracle sentinel of the associated market.

getPoolDataProvider

function getPoolDataProvider() external view override returns (address) Fetch address of latest pool data provider.

Return Value

Type Description address The address of the pool data provider of the associated market.

Write Methods

setMarketId

function setMarketId(string memory newMarketId) external override onlyOwner

Updates the identifier of the Aave market

Call Params

Name Type Description newMarketId string The new id of the market

setAddress

function setAddress(bytes32 id, address newAddress) external override onlyOwner

Sets the address of protocol contract stored at given id.

Eg. utils.keccak256(utils.toUtf8Bytes("INCENTIVES\_CONTROLLER")) is set to address ofINCENTIVES\_CONTROLLER

Call Params

Name Type Description id bytes32 keccak256 hash of UTF8Bytes string representing Contract newAddress address The new address to be set corresponding to theid

setAddressAsProxy

function setAddressAsProxy(bytes32 id, address newImplementationAddress) external override onlyOwner

Sets/updates the implementation address of a specific proxied protocol contract.

If there is no proxy registered with the given identifier, it creates the proxy settingnewAddress as implementation and calls the initialize() function on the proxy Call Params

Name Type Description id bytes32 id of Proxy contract newImplementationAddress address The address of new implementation contract corresponding to the proxy

setPoolImpl

function setPoolImpl(address newPoolImpl) external override onlyOwner

Sets/update the implementation of the POOL proxy contract.

Call Params

| Name        | Type    | Description                                     |
|-------------|---------|-------------------------------------------------|
| newPoolImpl | address | The address of new Pool implementation contract |

setPoolConfiguratorImp

function setPoolConfiguratorImpl(address newPoolConfiguratorImpl) external override onlyOwner

Sets/updates the implementation of the POOL\_CONFIGURATOR proxy contract.

Call Params

| Name                    | Type    | Description                                                 |
|-------------------------|---------|-------------------------------------------------------------|
| newPoolConfiguratorImpl | address | The address of new PoolConfigurator implementation contract |

setPriceOracle

function setPriceOracle(address newPriceOracle) external override onlyOwner

Sets/updates address of the PriceOracle contract.

Call Params

| Name           | Type    | Description                             |
|----------------|---------|-----------------------------------------|
| newPriceOracle | address | The address of new PriceOracle contract |

setACLAdmin

function setACLAdmin(address newAclAdmin) external override onlyOwner

Sets/updates address of the AclAdmin.

Call Params

| Name        | Type    | Description                    |
|-------------|---------|--------------------------------|
| newAclAdmin | address | The address of new AclAdmining |

setPriceOracleSentinel

function setPriceOracleSentinel(address newPriceOracleSentinel) external override onlyOwner

Sets/updates address of the Price oracle sentinel.

Call Params

| Name                   | Type    | Description                            |
|------------------------|---------|----------------------------------------|
| newPriceOracleSentinel | address | The address of new PriceOracleSentinel |

setPoolDataProvider

function setPoolDataProvider(address newDataProvider) external override onlyOwner

Sets/updates address of PoolDataProvider.

Call Params

| Name            | Type    | Description                         |
|-----------------|---------|-------------------------------------|
| newDataProvider | address | The address of new PoolDataProvider |

ABI

PoolAddressesProvider ABI ```

```
Copy [{ "inputs": [{ "internalType": "string", "name": "marketId", "type": "string" }, { "internalType": "address", "name": "owner", "type": "address" }], "stateMutability": "nonpayable", "type": "constructor" }, { "anonymous": false, "inputs": [{ "indexed": true, "internalType": "address", "name": "oldAddress", "type": "address" }, { "indexed": true, "internalType": "address", "name": "newAddress", "type": "address" }], "name": "ACLAdminUpdated", "type": "event" }, { "anonymous": false, "inputs": [{ "indexed": true, "internalType": "address", "name": "oldAddress", "type": "address" }, { "indexed": true, "internalType": "address", "name": "newAddress", "type": "address" }], "name": "ACLManagerUpdated", "type": "event" }, { "anonymous": false, "inputs": [{ "indexed": true, "internalType": "bytes32", "name": "id", "type": "bytes32" }, { "indexed": true, "internalType": "address", "name": "oldAddress", "type": "address" }, { "indexed": true, "internalType": "address", "name": "newAddress", "type": "address" }], "name": "AddressSet", "type": "event" }, { "anonymous": false, "inputs": [{ "indexed": true, "internalType": "bytes32", "name": "id", "type": "bytes32" }, { "indexed": true, "internalType": "address", "name": "proxyAddress", "type": "address" }, { "indexed": false, "internalType": "address", "name": "oldImplementationAddress",
```

```

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