Blob Archive

The Blocknative Blob Archive stores all blobs that enter the mempool (confirmed on-chain or not) in the Ethereum network using our global network of nodes. Given anyversionedHash of an on-chain blob, the archive returns the versioned hash, commitment, proof, count of zero-bytes, count of non-zero bytes and blob data. If you only want a summary view of the blob data, the archive can return the response without the full blob data.

Full blob data

Given theversionedHash of an on-chain blob, this will return the commitment, proof, count of zero bytes, count of non-zero bytes and blob data.

GEThttps://api.ethernow.xyz/v1/blob/{versionedHash}

Example Request

```

Copy curl--location\ https://api.ethernow.xyz/v1/blob/0x012b7a6a22399aa9eecd8eda6ec658679e81be21af6ff296116aee205e2218f2

```

Example Response

```

Copy { "blob":{ "versionedHash":"0x012b7a6a22399aa9eecd8eda6ec658679e81be21af6ff296116aee205e2218f2", "commitment":"0xb0afd3a5a67cc9e589a678c13607fc14e71d6ea8be2c4d6822141dc11208595ec65e1ad171bcd6a0e6cfd803e99e4cc0", "proof":"0x82010ad855155c39385a6b8d87f88496bede93a16f72fe7ec3c2e40690eb3aee01891ea6800a19643d6fa391d68ef001", "zeroBytes":817, "nonZeroBytes":130254, "data":"0x36ba0b....ba" } }

```

Query Parameters

Name Type Description data Bool When data=false, the api will NOT include the blob data

Summary of blob data

Given theversionedHash of an on-chain blob, this will return the commitment, proof, count of zero bytes, and count of non-zero bytes. Blob data will be empty.

GEThttps://api.ethernow.xyz/v1/blob/{versionedHash}?data=false

Example Request

```

Copy curl--location\ https://api.ethernow.xyz/v1/blob/0x012b7a6a22399aa9eecd8eda6ec658679e81be21af6ff296116aee205e2218f2? data=false

```

Example Response

```

Copy { "blob":{ "versionedHash":"0x012b7a6a22399aa9eecd8eda6ec658679e81be21af6ff296116aee205e2218f2", "commitment":"0xb0afd3a5a67cc9e589a678c13607fc14e71d6ea8be2c4d6822141dc11208595ec65e1ad171bcd6a0e6cfd803e99e4cc0", "proof":"0x82010ad855155c39385a6b8d87f88496bede93a16f72fe7ec3c2e40690eb3aee01891ea6800a19643d6fa391d68ef001", "zeroBytes":817, "nonZeroBytes":130254, "data":"" } }

```

Description of Terms

Term descriptions come from the officiaEIP andEIP-4844 website . Please refer to both of these resources for more details on the terms below.

Term Description versionedHash A single 0x01 byte (representing the version) followed by the last 31 bytes of the SHA256 hash of the commitment. commitment A hash of theKZG commitment to the polynomial proof The KZG commitment of the blob and a KZG proof-of-evaluation data The blob data itself where blob data is a vector of 4096 field elements, numbers within the range:

$0 <= x < 52435875175126190479447740508185965837690552500527637822603658699938581184513$ zeroBytes The count of used zero bytes in the blob data not including zero padding nonZeroBytes The count of used non-zero bytes in the blob data

Questions

If you have any questions please join the [Blocknative Mempool Research Telegram channel](#) where our team can provide guidance.

Was this helpful?