

# Contoh Lengkap Submit & Retrieve Blob di OG DA

## 1. Jalankan DA Client Node (Docker)

```
COMBINED_SERVER_CHAIN_RPC=https://0g-galileo-testnet.drpc.org/  
COMBINED_SERVER_PRIVATE_KEY=0xYOUR_PRIVATE_KEY  
ENTRANCE_CONTRACT_ADDR=0xE75A073dA5bb7b0eC622170Fd268f35E675a957B  
GRPC_SERVER_PORT=51001
```

```
docker run --env-file .env -p 51001:51001 0g-da-client
```

## 2. Install dependensi gRPC untuk Node.js

```
npm install @grpc/grpc-js @grpc/proto-loader
```

## 3. Submit Data (submit.js)

```
import grpc from "@grpc/grpc-js";  
import protoLoader from "@grpc/proto-loader";  
  
const PROTO_PATH = "./proto/da.proto"; // pastikan path sesuai  
const packageDef = protoLoader.loadSync(PROTO_PATH, {  
  keepCase: true,  
  longs: String,  
  enums: String,  
  defaults: true,  
  oneofs: true,  
});  
const grpcObj = grpc.loadPackageDefinition(packageDef);  
const daService = grpcObj.da.DataAvailabilityService;  
  
const client = new daService(  
  "localhost:51001", // gRPC endpoint dari DA Client Node  
  grpc.credentials.createInsecure()  
);  
  
function submitData() {  
  const data = Buffer.from("Hello OG DA via Galileo Testnet!", "utf-8");  
  
  client.SubmitBlob({ data }, (err, response) => {  
    if (err) {  
      console.error("■ Error submit:", err);  
      return;  
    }  
    console.log("■ Blob submitted successfully");  
    console.log("Blob ID:", response.blobId);  
    console.log("Commitment:", response.commitment);  
  });  
}  
  
submitData();
```

## 4. Retrieve Data (retrieve.js)

```
import grpc from "@grpc/grpc-js";  
import protoLoader from "@grpc/proto-loader";  
  
const PROTO_PATH = "./proto/da.proto";  
const packageDef = protoLoader.loadSync(PROTO_PATH, {  
  keepCase: true,  
  longs: String,
```

```

        enums: String,
        defaults: true,
        oneofs: true,
    });
    const grpcObj = grpc.loadPackageDefinition(packageDef);
    const daService = grpcObj.da.DataAvailabilityService;

    const client = new daService(
        "localhost:51001",
        grpc.credentials.createInsecure()
    );

    function getData(blobId) {
        client.GetBlob({ blobId }, (err, response) => {
            if (err) {
                console.error("■ Error retrieve:", err);
                return;
            }
            console.log("■ Retrieved blob data:", Buffer.from(response.data).toString("utf-8"));
        });
    }

    // ganti dengan blobId dari hasil submit
    getData("ISI_BLOB_ID");

```

## 5. Integrasi ke Smart Contract (Opsional)

```

pragma solidity ^0.8.0;

contract DACommitment {
    mapping(bytes32 => bool) public storedCommitments;

    function storeCommitment(bytes32 commitment) external {
        storedCommitments[commitment] = true;
    }

    function verifyCommitment(bytes32 commitment) external view returns (bool) {
        return storedCommitments[commitment];
    }
}

```