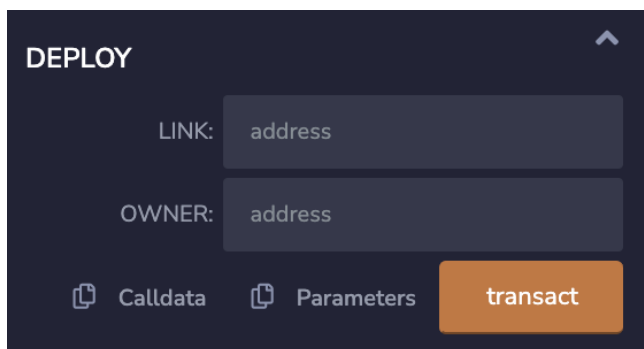


## A. ORACLE CONTRACT:

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.7.6
import "@chainlink/contracts/src/v0.7/Operator.sol"
```

While deploying this contract, need to give the “Link” as  
“0x1a55174123E992a3f8cd492924c5701546f7E7D7” for Polygon,  
“0x33f4212b027e22af7e6ba21fc572843c0d701cd1” for Apothem and for “Owner” , the  
wallet address from which you are going to deploy.



DEPLOY

LINK: address

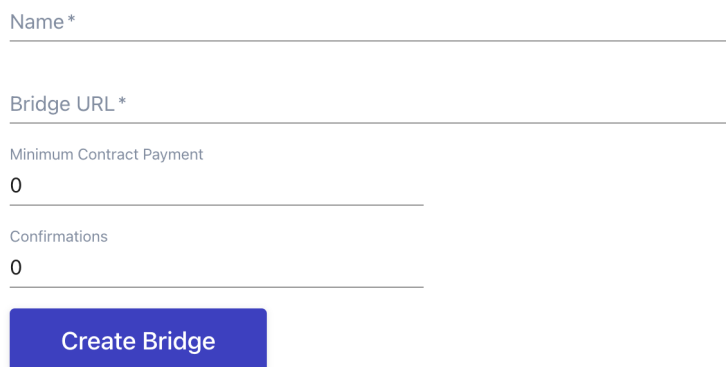
OWNER: address

Calldata Parameters transact

Once the contract is deployed, note down the oracle address.

## B. BRIDGE CREATION:

New Bridge



Name \*

Bridge URL \*

Minimum Contract Payment

0

Confirmations

0

Create Bridge

**Name:** <Bridge\_Name>

**Bridge URL:** http://<IP\_address>:<port\_number>

**NOTE:** The <port\_number>, should match your adapter port number.

#####

## C. JOB SUBMISSION:

1. In the Jobs Section, click on the “New Job” button.

Jobs

New Job

2. Now, submit the below **Job Spec** and press the “Create job” button.

### New Job

Job Spec (TOML) \*

```
type = "directrequest"
schemaVersion = 1
name = "TEST5"
forwardingAllowed = false
maxTaskDuration = "0s"
contractAddress = "0x06b321e3da4a5c67fBF074bb48C6408074bDD785"
minContractPaymentLinkJuels = "0"
observationSource = ""
  decode_log [type="ethabidecodelog"
    abi="OracleRequest(bytes32 indexed specId, address requester, bytes32 requestId, uint256 payment,
address callbackAddr, bytes4 callbackFunctionId, uint256 cancelExpiration, uint256 dataVersion, bytes data)"
    data="$(jobRun.logData)"
    topics="$(jobRun.logTopics)"]

  decode_cbor [type="cborparse" data="$(decode_log.data)"]
  fetch      [type="bridge name="cryptocompare" allowUnrestrictedNetworkAccess="true"]

  parse      [type="jsonparse" path="result" data="$(fetch)"]

  multiply    [type="multiply" input="$(parse)" times="$(decode_cbor.times)"]

  encode_data [type="ethabiencode" abi="(bytes32 requestId, uint256 value)" data="{ \"requestId\":
$(decode_log.requestId), \"value\": $(multiply) }"]
  encode_tx   [type="ethabiencode"
    abi="fulfillOracleRequest2(bytes32 requestId, uint256 payment, address callbackAddress, bytes4
```

Create Job

### Job Spec:

```
type = "directrequest"
schemaVersion = 1
name = "TEST5"
forwardingAllowed = false
maxTaskDuration = "0s"
```

```

contractAddress = "0x06b321e3da4a5c67fBF074bb48C6408074bDD785" //Oracle
Address which you deployed.
minContractPaymentLinkJuels = "0"
observationSource = ""
decode_log [type="ethabidecode" abi="OracleRequest(bytes32 indexed specId,
address requester, bytes32 requestId, uint256 payment, address callbackAddr, bytes4
callbackFunctionId, uint256 cancelExpiration, uint256 dataVersion, bytes data)"
data="$(jobRun.logData)" topics="$(jobRun.logTopics)"]

decode_cbor [type="cborparse" data="$(decode_log.data)"]

fetch [type="bridge name="cryptocompare" allowUnrestrictedNetworkAccess="true"]

parse [type="jsonparse" path="result" data="$(fetch)"]

multiply [type="multiply" input="$(parse)" times="$(decode_cbor.times)"]

encode_data [type="ethabiencode" abi="(bytes32 requestId, uint256 value)" data="{
\\\"requestId\\\": $(decode_log.requestId), \\\"value\\\": $(multiply) }"]

encode_tx [type="ethabiencode" abi="fulfillOracleRequest2(bytes32 requestId, uint256
payment, address callbackAddress, bytes4 callbackFunctionId, uint256 expiration, bytes
calldata data)"
data="{\\\"requestId\\\": $(decode_log.requestId), \\\"payment\\\": $(decode_log.payment),
\\\"callbackAddress\\\": $(decode_log.callbackAddr), \\\"callbackFunctionId\\\":
$(decode_log.callbackFunctionId), \\\"expiration\\\": $(decode_log.cancelExpiration),
\\\"data\\\": $(encode_data)}" ]

submit_tx [type="ethtx" to="0x06b321e3da4a5c67fBF074bb48C6408074bDD785"
data="$(encode_tx)"] //paste the Oracle Address which you deployed in 'to' field

decode_log -> decode_cbor -> fetch -> parse -> multiply -> encode_data -> encode_tx
-> submit_tx
""

```

3. Once the Job has been submitted successfully, copy the External Job ID and remove the hyphen('-') from the job ID

ID	Name	Type	External Job ID
5	TEST5	Direct Request	53034a3f-0999-49f7-8793-7a96fa3e9a32

#####

## D. CONSUMER CONTRACT

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.7;

import "@chainlink/contracts/src/v0.8/ChainlinkClient.sol";
import "@chainlink/contracts/src/v0.8/ConfirmedOwner.sol";

/**
 * Request testnet LINK and ETH here: https://faucets.chain.link/
 * Find information on LINK Token Contracts and get the latest ETH and LINK
 * faucets here: https://docs.chain.link/docs/link-token-contracts/
 */

/**
 * THIS IS AN EXAMPLE CONTRACT WHICH USES HARDCODED VALUES FOR CLARITY.
 * THIS EXAMPLE USES UN-AUDITED CODE.
 * DO NOT USE THIS CODE IN PRODUCTION.
 */

contract APIConsumer is ChainlinkClient, ConfirmedOwner {
    using Chainlink for Chainlink.Request;

    uint256 public volume;
    bytes32 private jobId;
    uint256 private fee;

    event RequestVolume(bytes32 indexed requestId, uint256 volume);

    /**
     * @notice Initialize the link token and target oracle
     */
    * Sepolia Testnet details:
    * Link Token: 0x779877A7B0D9E8603169DdbD7836e478b4624789
    * Oracle: 0x6090149792dAAeE9D1D568c9f9a6F6B46AA29eFD (Chainlink DevRel)
    * jobId: ca98366cc7314957b8c012c72f05aeeb
    *
    */

    constructor() ConfirmedOwner(msg.sender) {
        setChainlinkToken(0x1a55174123E992a3f8cd492924c5701546f7E7D7); //Link address as
        mentioned in 'A'
        setChainlinkOracle(0x06b321e3da4a5c67fBF074bb48C6408074bDD785); //Oracle address
    }
}
```

```

jobId = "53034a3f099949f787937a96fa3e9a32";//Job ID as stored in 'C' JOB
SUBMISSION
fee = (0.001 * 1000000000000000000) / 10;
}

/**
 * Create a Chainlink request to retrieve API response, find the target
 * data, then multiply by 1000000000000000000 (to remove decimal places from
 * data).
 */
function requestVolumeData() public returns (bytes32 requestId) {
Chainlink.Request memory req = buildChainlinkRequest(
jobId,
address(this),
this.fulfill.selector
);

// Set the URL to perform the GET request on
// req.add(
// "get",
// "https://min-api.cryptocompare.com/data/pricemultifull?fsyms=ETH&tsyms=USD"
// );
req.add(
"get",
"https://min-api.cryptocompare.com/data/price?fsym=ETH&tsyms=USD"
);

// Set the path to find the desired data in the API response, where the
response format is:
// {"RAW":
// {"ETH":
// {"USD":
// {
// "VOLUME24HOUR": xxx.xxx,
// }
// }
// }
// }
// request.add("path", "RAW.ETH.USD.VOLUME24HOUR"); // Chainlink nodes prior to
1.0.0 support this format
//req.add("path", "RAW.ETH.USD.VOLUME24HOUR"); // Chainlink nodes 1.0.0 and
later support this format

```

```

//req.add("path", "USD"); // Chainlink nodes 1.0.0 and later support this
format
//req.add("path", "Result,data,result"); // Chainlink nodes 1.0.0 and later
support this format

// Multiply the result by 100000000000000000 to remove decimals
uint256 timesAmount = 10 ** 18;
req.addInt("times", timesAmount);



// Sends the request
return sendChainlinkRequest(req, fee);
}

/**
 * Receive the response in the form of uint256
 */
function fulfill(
bytes32 _requestId,
uint256 _volume
) public recordChainlinkFulfillment(_requestId) {
emit RequestVolume(_requestId, _volume);
volume = _volume;
}

/**
 * Allow withdraw of Link tokens from the contract
 */
function withdrawLink() public onlyOwner {
LinkTokenInterface link = LinkTokenInterface(chainlinkTokenAddress());
require(
link.transfer(msg.sender, link.balanceOf(address(this))),
"Unable to transfer"
);
}
}

```

Once the contract is deployed, fund the contract with 0.1 PLI and click on 'requestVolumeData' & wait for few minutes and then click on 'volume' to get the ETH-USD value.

▼ APICONSUMER AT 0X615...31E2F  

Balance: 0 ETH

acceptOw...

fulfill

bytes32 \_requestId, uint256 \_v



requestVo...

transferO...

address to



withdrawL...

owner

volume

0: uint256: 1931900000000000000000