## FlightAware Chainlink (Testnet)

This Chainlink has a dedicated connection to FlightAware.

### Steps for using this oracle

- Write and deploy your Chainlink contract using the network details below
- Fund it with LINK
- Call your request method

### **Chainlink Network Details**

You will need to use the following LINK token address, oracle address, and Job IDs to create the request.

#### Kovan

```
LINK Token address: 0xa36085f69e2889c224210f603d836748e7dc0088

Oracle address: 0x2f90A6D021db21e1B2A077c5a37B3C7E75D15b7e

JobID: a644d4e30977459d9a596bef89c09e71

Sleep JobID: f0003b2c52024e7fa931d6ee9a947c87
```

# **Create your Chainlink contract**

Import ChainlinkClient.sol into your contract so you can inherit the Chainlink behavior.

```
pragma solidity ^0.6.0;
import "@chainlink/contracts/src/v0.6/ChainlinkClient.sol";
contract FlightAwareChainlink is ChainlinkClient {
   uint256 oraclePayment;
   constructor(uint256 _oraclePayment) public {
      setPublicChainlinkToken();
      oraclePayment = _oraclePayment;
   }
   // Additional functions here:
}
```

### **Tasks**

- FlightAware
- Copy
- Ethuint256
- EthTx

### **Request Parameters**

### endpoint

The endpoint to query (optional, defaults to FlightInfoEx)

#### Solidity example

```
req.add("endpoint", "FlightInfoEx");
```

#### flight

The flight identification/number (required)

#### Solidity example

```
req.add("flight", "NAX105");
```

#### departure

The unix timestamp of the departure (required)

#### Solidity example

```
req.addUint("departure", 1594378824);
```

#### until

Required for the Sleep job

#### Solidity example

```
req.addUint("until", now + 1 hours);
```

## **Chainlink Examples**

The examples below use the different endpoints available from this Chainlink:

```
function createRequest
(
   address _oracle,
   bytes32 _jobId,
   string memory _flight,
   uint256 _departure,
)
   public
   onlyOwner
{
    Chainlink.Request memory req = buildChainlinkRequest(_jobId, this, this.fulfireq.add("flight", _flight);
    req.addUint("departure", _departure);
    sendChainlinkRequestTo(_oracle, req, oraclePayment);
}
```

Here is an example of the fulfill method:

```
uint256 public result;
function fulfill(bytes32 _requestId, uint256 _result)
  public
  recordChainlinkFulfillment(_requestId)
{
  result = _result;
}
```