

# Write data with the InfluxDB API

Write data to InfluxDB using an HTTP request to the InfluxDB API

`/write` endpoint. Use the `POST` request method and include the following in your request:

| Requirement         | Include by                                                                                       |
|---------------------|--------------------------------------------------------------------------------------------------|
| Organization        | Use the <code>org</code> query parameter in your request URL.                                    |
| Bucket              | Use the <code>bucket</code> query parameter in your request URL.                                 |
| Timestamp precision | Use the <code>precision</code> query parameter in your request URL. Default is <code>ns</code> . |
| API token           | Use the <code>Authorization: Token YOUR_API_TOKEN</code> header.                                 |
| Line protocol       | Pass as plain text in your request body.                                                         |

## *Send a write request*

The URL in the examples depends on the version and location of your

InfluxDB 2.3 instance.  [Customize URLs in examples](#)[Curl](#) [Node.js](#)

```
curl --request POST \  
"http://localhost:8086/api/v2/write?org=YOUR_ORG&bucket=\  
  --header "Authorization: Token YOUR_API_TOKEN" \  
  --header "Content-Type: text/plain; charset=utf-8" \  
  --header "Accept: application/json" \  
  --data-binary '  
    airSensors,sensor_id=TLM0201 temperature=73.970381593  
    airSensors,sensor_id=TLM0202 temperature=75.300075059  
'
```

 [Change InfluxDB URL](#)

### Use gzip compression with the InfluxDB API

When using the InfluxDB API `/write` endpoint to write data, compress the data with `gzip` and set the `Content-Encoding` header to `gzip`. Compression reduces network bandwidth, but increases server-side load.

```
echo "airSensors,sensor_id=TLM0201 temperature=73.
    airSensors,sensor_id=TLM0202 temperature=75.3000

curl --request POST \
  "http://localhost:8086/api/v2/write?org=YOUR_ORG&
  --header "Authorization: Token YOUR_API_TOKEN" \
  --header "Content-Encoding: gzip" \
  --header "Content-Type: text/plain; charset=utf-
  --header "Accept: application/json" \
  --data-binary @air-sensors.gzip
```

 [Change InfluxDB URL](#)

For information about **InfluxDB API response codes**, see [InfluxDB API Write documentation](#).

Was this page helpful?

Yes

No

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InfluxData Community



InfluxDB Community Slack

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