

Load Testing: Bombardier

bombardier.bash

```
> bombardier -c 125 -n 10000000 http://localhost:8080
```

Bombarding http://localhost:8080 with 10000000 requests using 125 connections

10000000 / 10000000 [=====] 100.00% 37s Done!

Statistics	Avg	Stdev	Max
Reqs/sec	264560.00	10733.06	268434
Latency	471.00us	522.34us	51.00ms

HTTP codes:

1xx - 0, 2xx - 10000000, 3xx - 0, 4xx - 0, 5xx - 0

others - 0

Throughput: 292.92MB/s



BOMBARDIER



Useful to quickly
test an endpoint



Easy to configure




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Load Testing: Artillery

asciiart-load-test.yml

```
config:
  target: http://asciiart.artillery.io:8080
  phases:
    - duration: 60
      arrivalRate: 1
    - duration: 300
      arrivalRate: 10
  scenarios:
    - flow:
        - get:
            url: "/dino"
        - get:
            url: "/armadillo"
```

 Define test suites via YAML

 Easy to configure into your CI/CD pipeline

 Has a built-in  Playwright integration

artillery.bash

```
npx artillery run asciiart-load-test.yml
```



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Load Testing: K6

JS api-test.js

```
// import necessary modules
import { check } from 'k6';
import http from 'k6/http';

// define configuration
export const options = {
  // define thresholds
  thresholds: {
    http_req_failed: ['rate<0.01'],
    http_req_duration: ['p(99)<1000'],
  },
};

export default function () {
  // define URL and request body
  const url = 'https://test-api.k6.io/auth/basic/login/';
  const payload = JSON.stringify({
    username: 'test_case',
    password: '1234',
  });
  const params = {
    headers: {
      'Content-Type': 'application/json',
    },
  };

  // send a post request and save response as a variable
  const res = http.post(url, payload, params);

  // check that response is 200
  check(res, {
    'response code was 200': (res) => res.status == 200,
  });
}
```



Write test scripts in JavaScript



Can easily be added into your CI/CD pipeline



Has a browser extension to record user flows

k6.bash

```
k6 run api-test.js
```



Grafana Labs



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