TESTING NODE APIS WITH

MOCHA & JMETER

API TEST WITH MOCHA

- Assuming you have installed node v14
- \$ npx mocha app.test.js # or \$ npx mocha ./**/*.test.js

```
const assert = require('assert');

describe('#indexOf()', () => {
    it('should return -1 when the value is not present', () => {
        assert.equal([1, 2, 3].indexOf(5), -1)
    });
});
```

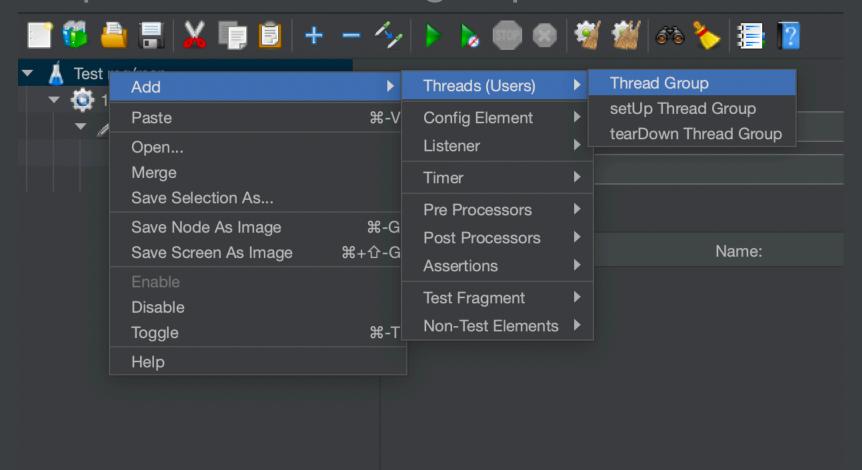
TEST OUTPUT

```
(base) ~/sjsu/273/mocha:$ npx mocha app.test.js
npx: installed 92 in 4.006s
 Array
   #index0f()
     ✓ should return -1 when the value is not present
 GET users API call
   ✓ should return correct page number (using async) (116ms)
   ✓ should return correct page number (using done) (82ms)
 Mocha hooks
   should set value of count to 1 before running this test
 4 passing (1s)
```

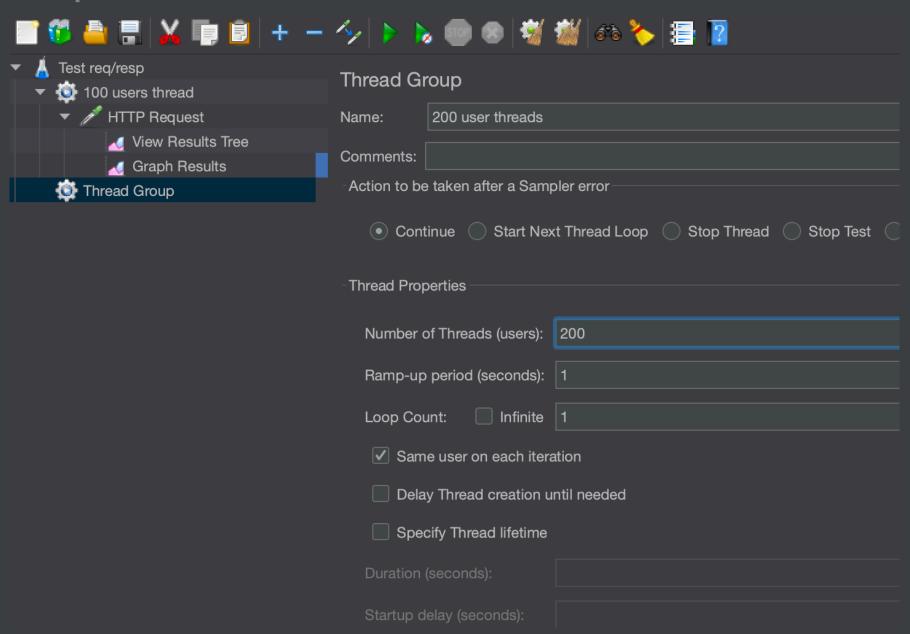
LOAD TESTING WITH <u>JMETER</u>

- Install Apache JMeter
- Add "Thread Group" component to your Test Plan
- Add a "HTTP Request" component to the "Thread Group"
- Add "View Results Tree" and "Aggregate Report" listener type components to the "Thread Group"
- Fill "HTTP Request" fields.

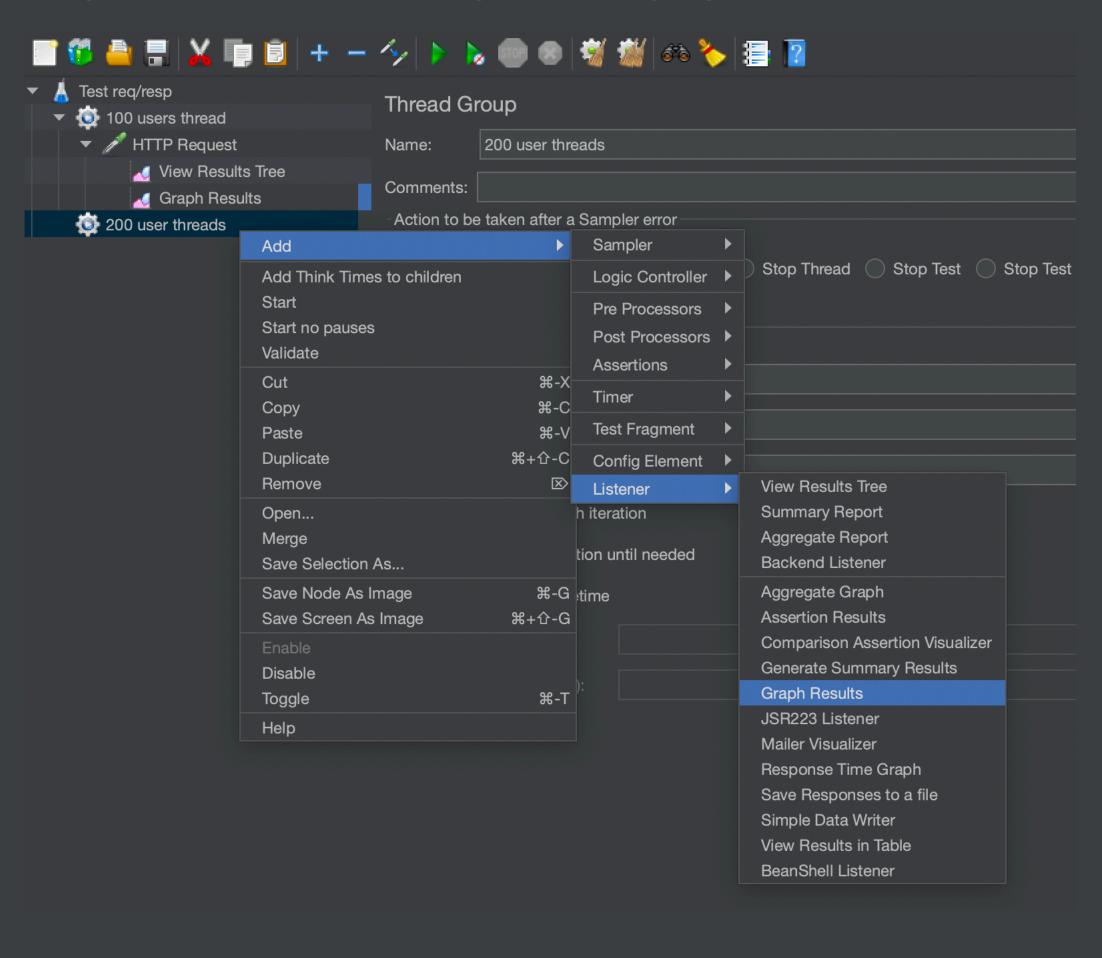
Step 1 - Add a thread group



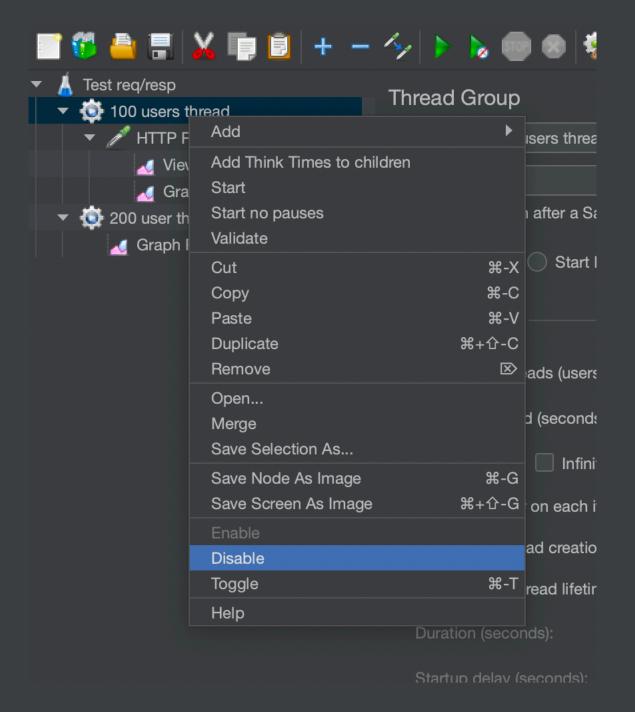
Step 2 - Set number of threads



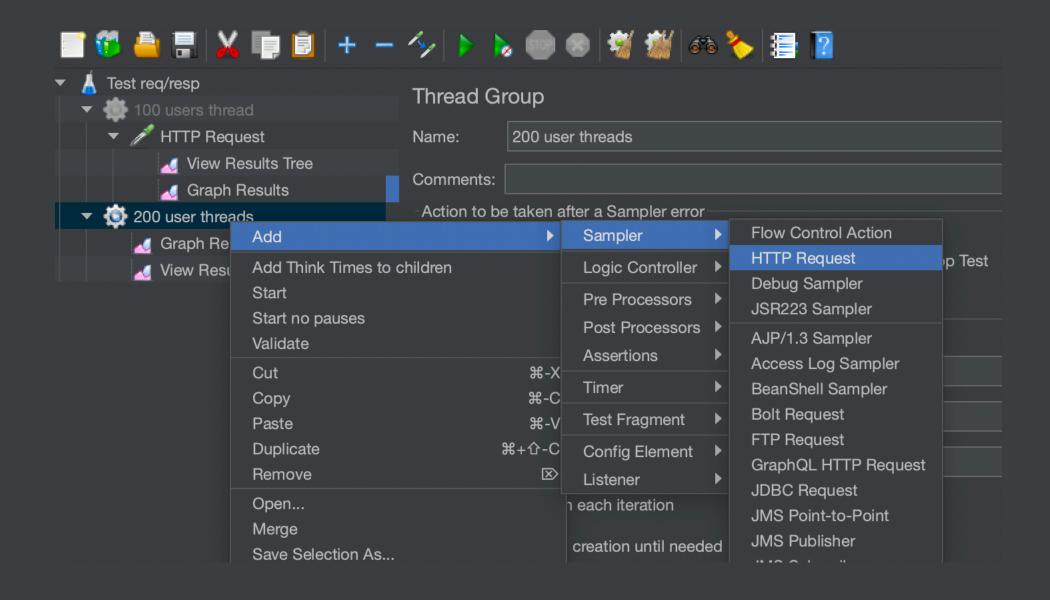
Step 3 - Add listener to generate graph



Step 4 - Disable any other test groups if present



Step 5 - Add http request to test



Step 7 - Run and view results

