

Load and Stress Testing

- 1) Apache Bench
- 2) Apache JMeter
- 3) NBomber
- 4) NetLing

Apache Bench

ab -c 50 -n 10000 -f TLS1.2 -H "Accept-Encoding: gzip,deflate" https://somesite.com/

Проверка максимального количества запросов с TLS

Команда выполнит 10 000 запросов в 50 потоков и выведет скорость и обработанное количество запросов:

Total transferred: 59560000 bytes

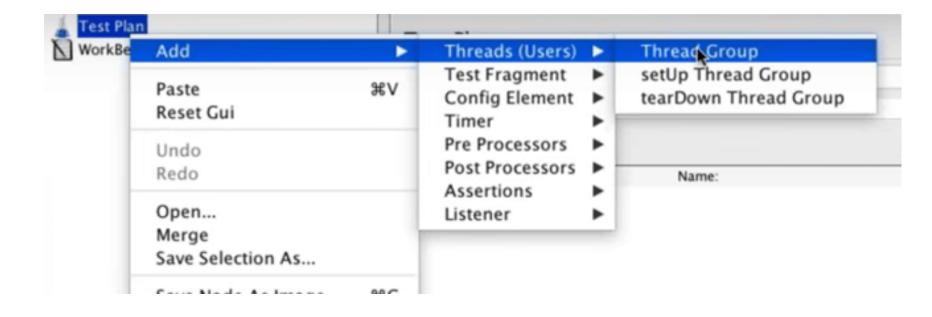
HTML transferred: 52160000 bytes

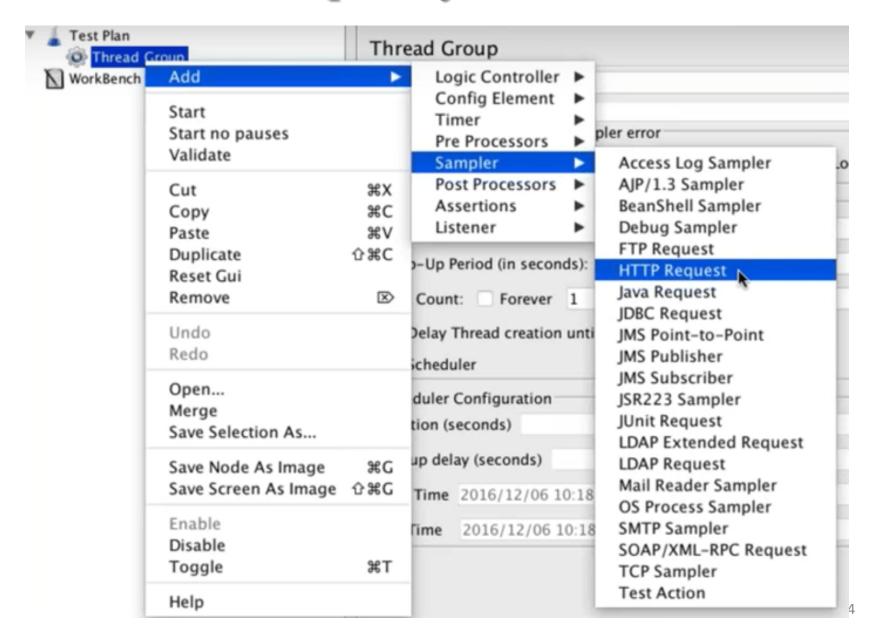
Requests per second: 816.77 [#/sec] (mean)

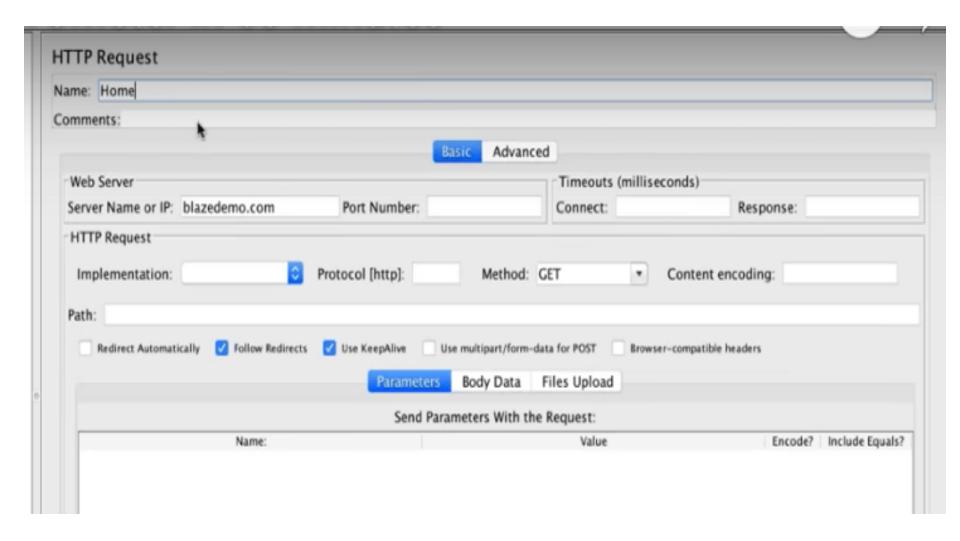
Time per request: 122.434 [ms] (mean)

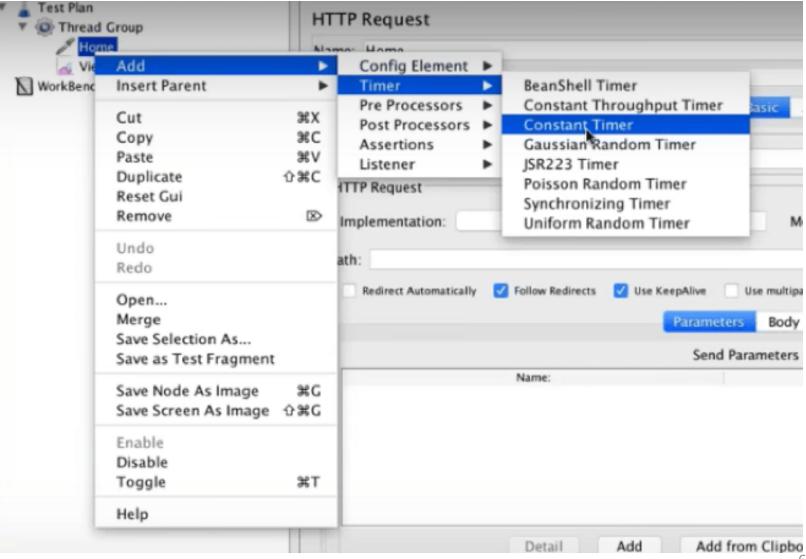
Time per request: 2.449 [ms] (mean, across all concurrent requests)

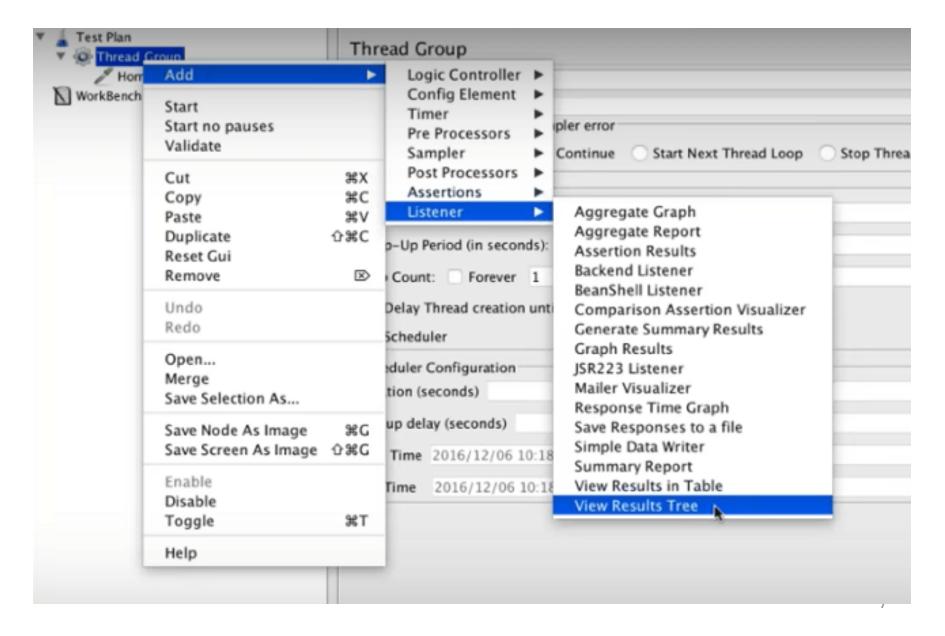
Transfer rate: 2375.33 [Kbytes/sec] received

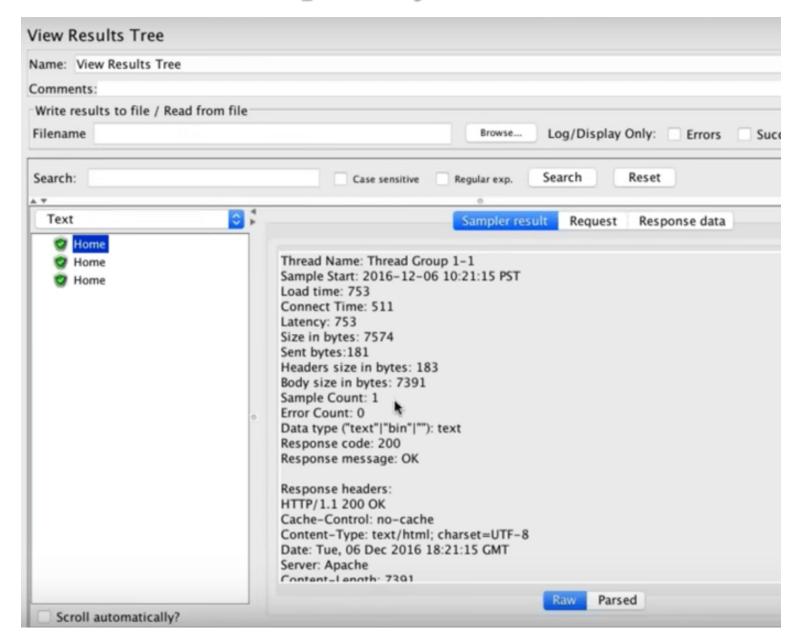






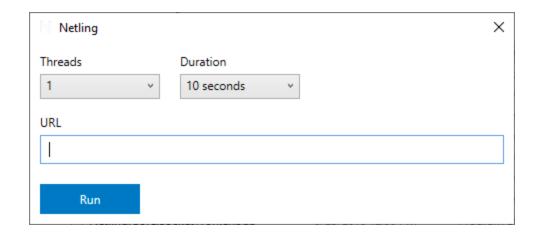


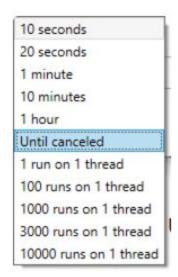




Netling

- Threads
 - You can configure up to 80 (20 per core)
- Duration
 - You can configure based on your needs

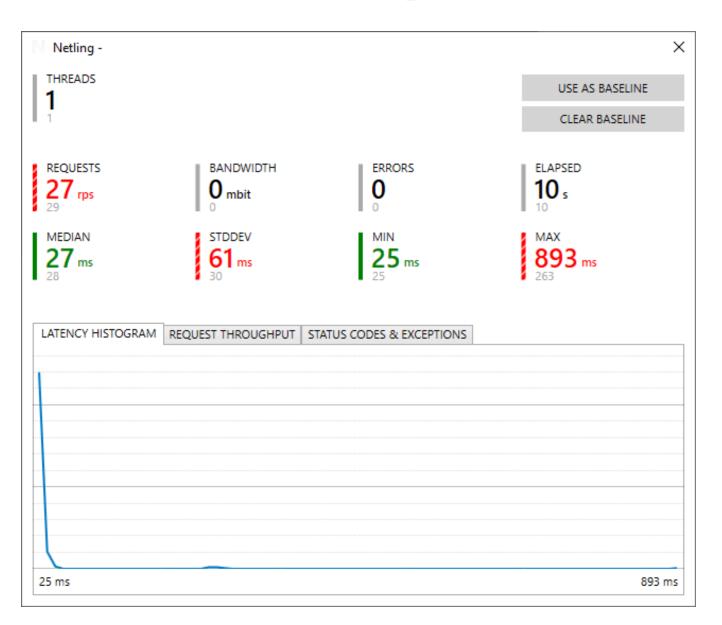




Duration

- URL
 - Valid URL under test e.g. https://example.com

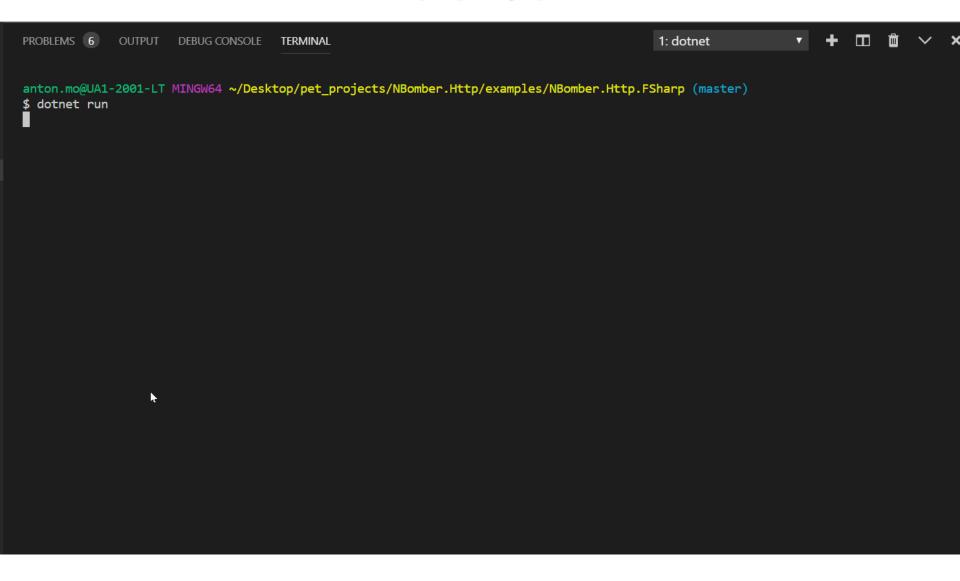
Netling



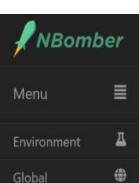
NBomber

```
var step = Step.Create("fetch html page",
                       clientFactory: HttpClientFactory.Create(),
                       execute: context =>
    var request = Http.CreateRequest("GET", "https://nbomber.com")
                      .WithHeader("Accept", "text/html");
    return Http.Send(request, context);
var scenario = ScenarioBuilder
    .CreateScenario("simple http", step)
    .WithWarmUpDuration(TimeSpan.FromSeconds(5))
    .WithLoadSimulations(
        Simulation.InjectPerSec(rate: 100, during: TimeSpan.FromSeconds(30))
    );
var pingPluginConfig = PingPluginConfig.CreateDefault(new[] {"nbomber.com"});
var pingPlugin = new PingPlugin(pingPluginConfig);
NBomberRunner
    .RegisterScenarios(scenario)
    .WithWorkerPlugins(pingPlugin)
    .Run();
```

NBomber

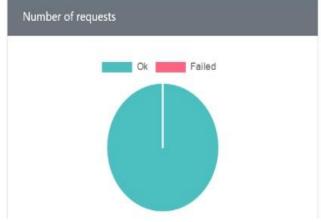


NBomber reports



step	Request count			Request time			Request time percentile				Data transfer				
	All	ок	Failed	RPS	min	mean	max	50%	75%	95%	StdDev	min, Kb	mean, Kb	max, Kb	all, MB
					28	32	146	31	32	36	10	6.98	6.98	6.98	51.5





NBomber reports

Entities by Ids



100



→ Entities \$top queries

2.0 K

1.0 K

400

200

2/19 16:00



2/20 16:00 2/21 00:00

2/21 08:00

2/20 08:00

Market \$top=20











