Blazemeter + Taurus

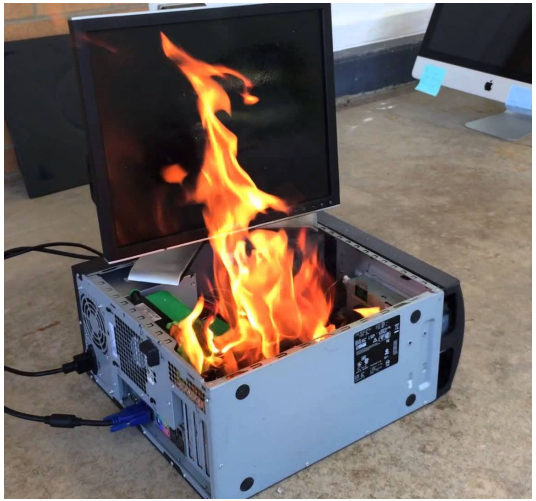
Tir de charges

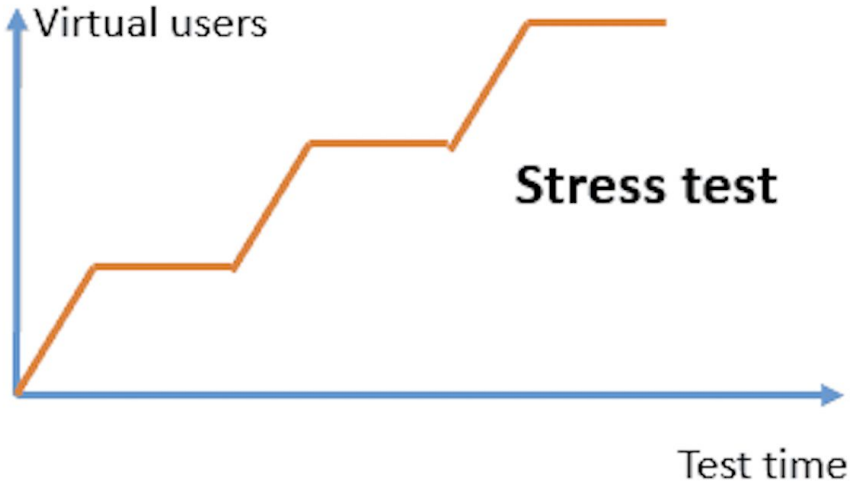
Présentation pour
la BU Creation

Blazemeter
Taurus
Qu’est-ce que c’est ?

Types de test de charge

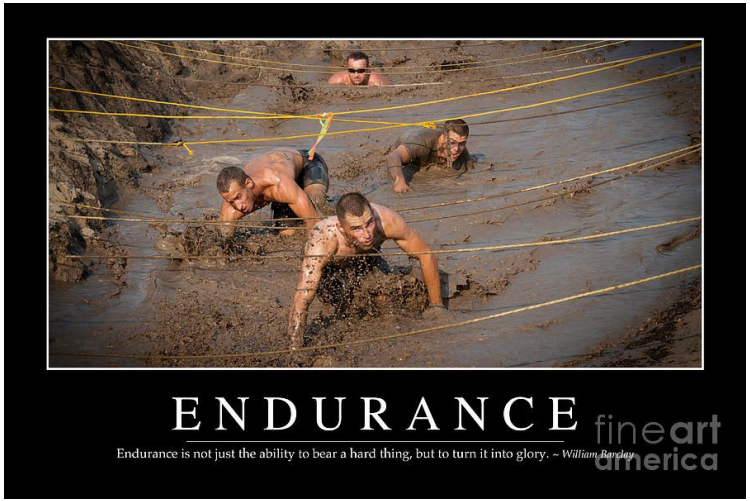
Test aux limites (Stress test)

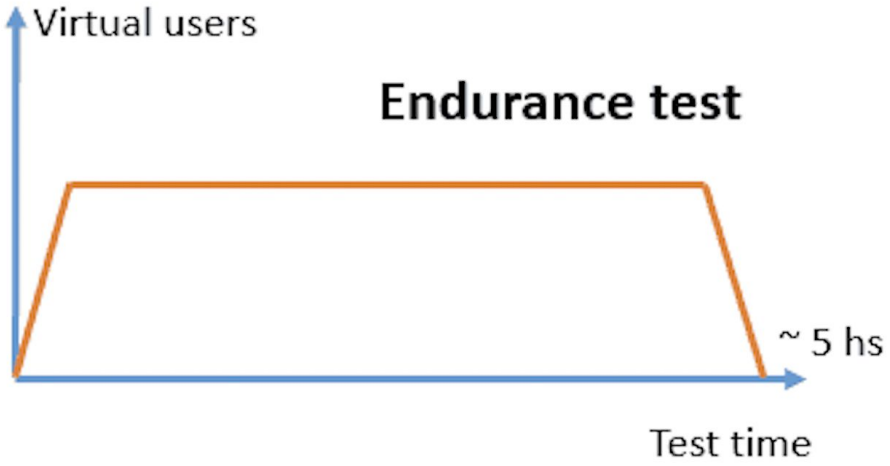




Types de test de charge

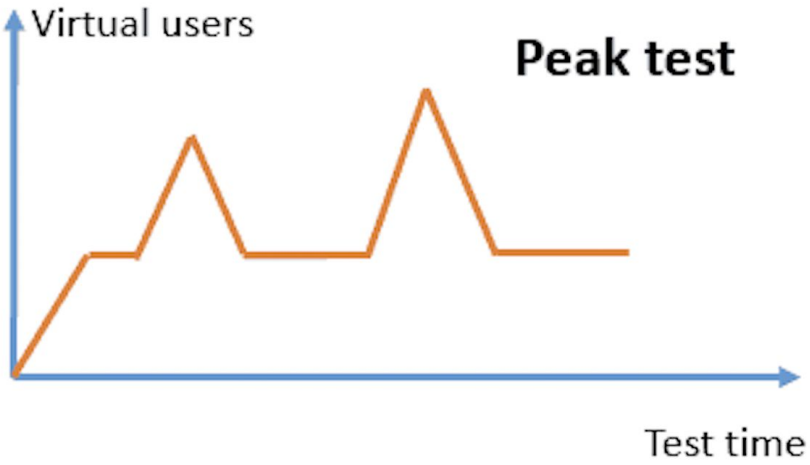
Test d’endurance (Endurance test)





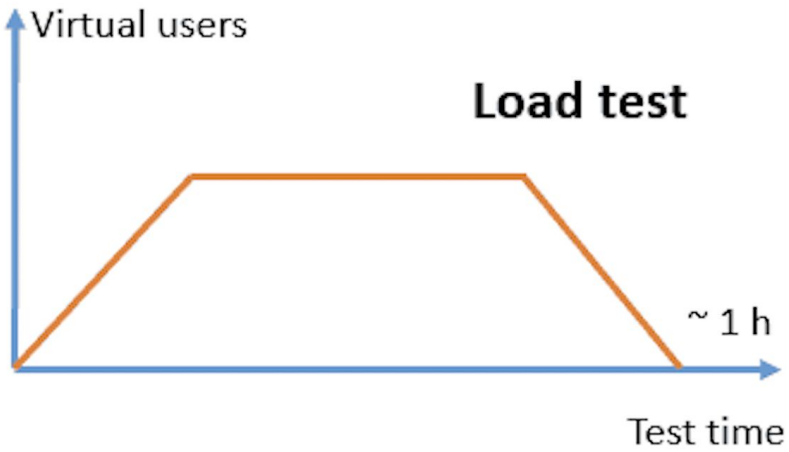
Types de test de charge

Test en pic de charge (Peak test)

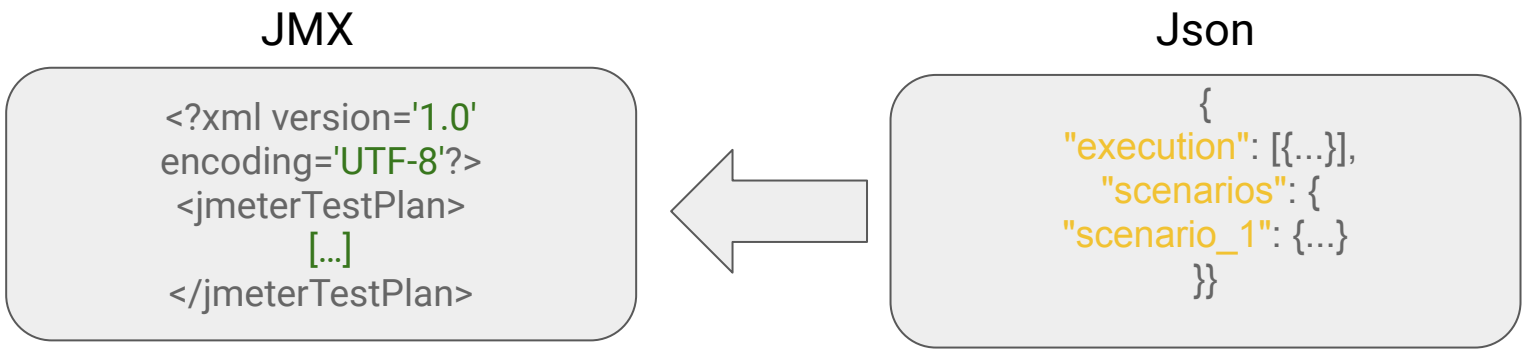


Types de test de charge

Test de volumetrie (Volume test)



JMeter + Taurus



Source : https://gettaurus.org/docs/JMeter/

Gatling + Taurus

Java

```
class BasicSimulationJava
extends Simulation {
ScenarioBuilder scn =
scenario("scenario_1");
[...]
}
```

Json

```
{
"execution": [{...}],
"scenarios": {
"scenario_1": {...}
}}
```

Source : https://gettaurus.org/docs/Gatling/

Structure d'un test de charge (volume test)

1. Scenario(s)
    a. Les requetes HTTP
    b. Les données du test
2. Paramètres
    a. Localisation géographique des points d'attaque
    b. Temps d'exécution
    c. Le nombre total d’utilisateur (virtual users)
    d. Le temps de monter en charge (ramp-up)
    e. Le nombre de palier de monter en charge
    f. Le nombre de requêtes par seconde par utilisateurs (throughput)

Les parametres

Localisation géographique des points d'attaque

```
{
   "execution": [
      {
         "locations": {
            "us-west-1": 1,
            "us-central1-a": 2
         }
      }
   ]
}
```

Source: https://gettaurus.org/docs/Cloud/

Les parametres

Le nombre total d’utilisateur
Le nombre de requêtes par seconde par utilisateurs (throughput)
Le temps de monter en charge (ramp-up)
Le temps d'exécution
Le nombre de palier de monter en charge

```
{
    "concurrency": 50,
    "throughput": 100,
    "ramp-up": "5m",
    "hold-for": "20m",
    "steps": 5
}
```

Source : https://gettaurus.org/docs/ExecutionSettings/#Load-Profile

Les scenario(s)

```
"scenarios": {
  "scenario_1": {
    "keepalive": true,
    "timeout": "1500ms",
    "think-time": "10ms",
    "follow-redirects": true,
    "user.language": "en",
    "retrieve-resources": true,
    "store-cache": false,
    "use-dns-cache-mgr": true,
    "store-cookie": false,
    "default-address": "http://localhost:8080",
    "requests": {...}
  }
}
```

Source: https://gettaurus.org/docs/ExecutionSettings/#Scenario

Les scenario(s)

Les requêtes HTTP

```
"requests": [
        {
                "label": "call api",
                "method": "POST",
                "headers": {...},
                "url": "http://localhost:8080/path/to/api/post",
                "body-file": "body_post.json",
                "jsr223": [...],
                "assert": [...],
                "assert-jsonpath": [...]
        },
        {...}
]
```

Source: https://gettaurus.org/docs/JMeter/#Requests

Les scenario(s)

Les requêtes HTTP / les headers

```
"headers": {
        "User-Agent": "JMeter/Taurus 1.16.4",
        "Content-Type": "application/json",
        "x-api-key": "xxxx-xxxx-xxx-xxxx-xxxx",
        "Authorization": "Bearer xyzxyzxyzxyz",
        "Accept": "application/json"
}
```

Source: https://gettaurus.org/docs/JMeter/#Requests

Les scenario(s)

Les requêtes HTTP / les scripts JSR223 (uniquement JMeter)

```
"jsr223": [
        {
          "execute": "before",
          "script-text": "vars.put(\"randomVar\", \"${__time()}${__threadNum}\")",
          "compile-cache": false
        }
]
```

Source: https://gettaurus.org/docs/JMeter/#JSR223-Blocks

Les scenario(s)

Les requêtes HTTP / les assertions

```
"assert": [
        {
          "contains": [
           "201"
          ],
          "subject": "http-code",
          "not": false
        }
]
```

Source: https://gettaurus.org/docs/JMeter/#Assertions

Les scenario(s)

Les requêtes HTTP / les assertions

```
"assert-jsonpath": [
        {
          "jsonpath": "$.keyValue",
          "expected-value": "${randomVar}",
          "expect-null": false,
          "invert": false
        },
        {
          "jsonpath": "$.keyType",
          "expect-null": false,
          "invert": false
        }
]
```

Source: https://gettaurus.org/docs/JMeter/#Assertions

Demonstration

product-information-collector

Merci !
Des questions ?
Des remarques ?