Laporan Tugas 9



Pemrograman Jaringan B

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**Surabaya**

**2020**

1. **Parameter Test**Jumlah Request : 1000  
   Konkurensi : 1, 5, 10, 25, 50, 75 100
2. **Hasil Performance Test**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Concurrency Level** | **Time Taken For Rest (seconds)** | **Complete Request** | **Failed Request** | **Total Transferred** | **Request per second (#/sec)** | **Time per request (ms)** | **Transfer Rate** |
| 1 | 1 | 5.988 | 1000 | 0 | 122000 | 166.99 | 5.988 | 19.90 |
| 2 | 5 | 4.251 | 1000 | 0 | 122000 | 235.25 | 4.251 | 28.03 |
| 3 | 10 | 4.385 | 1000 | 0 | 122000 | 228.07 | 4.385 | 27.17 |
| 4 | 25 | 4.462 | 1000 | 0 | 122000 | 224.11 | 4.462 | 26.70 |
| 5 | 50 | 3.867 | 1000 | 0 | 122000 | 258.59 | 3.867 | 30.81 |
| 6 | 75 | 4.532 | 1000 | 0 | 122000 | 339.870 | 4.532 | 26.29 |
| 7 | 100 | 4.027 | 1000 | 0 | 122000 | 248.34 | 4.027 | 29.59 |

1. **Asynchronous Server**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Concurrency Level** | **Time Taken For Rest (seconds)** | **Complete Request** | **Failed Request** | **Total Transferred** | **Request per second (#/sec)** | **Time per request (ms)** | **Transfer Rate** |
| 1 | 1 | 684.702 | 1000 | 0 | 122000 | 1.46 | 684.702 | 0.17 |
| 2 | 5 | 188.797 | 1000 | 0 | 122000 | 5.30 | 188.797 | 0.63 |
| 3 | 10 | 194.726 | 1000 | 0 | 122000 | 5.14 | 194.726 | 0.61 |
| 4 | 25 | 200.788 | 1000 | 0 | 122000 | 4.98 | 200.788 | 0.59 |
| 5 | 50 | 186.588 | 1000 | 0 | 122000 | 5.36 | 186.588 | 0.64 |
| 6 | 75 | 209.421 | 1000 | 0 | 122000 | 4.78 | 209.421 | 0.57 |
| 7 | 100 | 198.006 | 1000 | 0 | 122000 | 5.05 | 198.066 | 0.6 |

1. **Threaded Server**
2. **Kesimpulan**Berdasarkan hasil tes di atas, dapat dilihat bahwa asynchronous server dapat memproses lebih cepat dibandingkan Thread Server
3. **Dokumentasi** 
   1. **Apache Benchmark Asynchronous 1000 request**
      * + A screenshot of a computer screen

          Description automatically generatedConcurrency 1
        + Concurrency 5  
          A screenshot of a computer screen

          Description automatically generated
        + Concurrency 10  
          A screenshot of a computer screen

          Description automatically generated
        + Concurrency 25  
          A screenshot of a computer screen

          Description automatically generated
        + Concurrency 50  
          A screenshot of a computer screen

          Description automatically generated
        + Concurrency 75  
          A screenshot of a computer screen

          Description automatically generated
        + Concurrency 100  
          A screenshot of a computer screen

          Description automatically generated
   2. **Apache Benchmark Thread 1000 request**
      * + Concurrency 1  
          A screenshot of a computer screen

          Description automatically generated
        + Concurrency 5  
          A screenshot of a computer screen

          Description automatically generated
        + Concurrency 10  
          A screenshot of a computer screen

          Description automatically generated
        + Concurrency 25  
          **A screenshot of a computer screen

          Description automatically generated**
        + Concurrency 50  
          **A screenshot of a computer screen

          Description automatically generated**
        + Concurrency 75  
          **A screenshot of a computer screen

          Description automatically generated**
        + Concurrency 100  
          **A screenshot of a computer screen

          Description automatically generated**