LAPORAN TUGAS INDIVIDU

Implementasi Program Server



Mata Kuliah:

Pemrograman Jaringan

Dosen:

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1. Deskripsi Tugas

- Jalankan program server seperti dalam pembahasan
- buatlah program client yang dapat melakukan 100 request get pada dalam satu saat untuk operasi get file "pokijan.jpg"
- capture dan submitlah poin 1 dan 2 dalam satu dokumen pdf. berikan DESKRIPSI dan PENJELASAN

2. Hasil Pengerjaan

Pembuatan Program Client 100 request

a. Mengganti path pada file interface.py

```
class FileInterface:
    def __init__(self):
        os.chdir('/Users/chintyadewi/Pemrograman_Jaringan_D/progjar4a/tugas_individu')
```

- b. Pembuatan multithread untuk client program 100 request get
 - Program diminta untuk iterasi sebanyak 100 kali untuk request get dengan menggunakan fungsi remote_get yang berfungsi untuk mengirim command dan mengecek apakah command yang dikirim berhasil atau tidak, fungsi ini berada pada file_interface (import).

```
def kirim_semua():
    texec = dict()
    daftar = 'pokijan.jpg'

catat_awal = datetime.datetime.now()
    for k in range(100):
        print(f"mengirim {k}")
        texec[k] = threading.Thread(target=remote_get, args=(daftar,))
        texec[k].start()
    for k in range(100):
        texec[k].join()

catat_akhir = datetime.datetime.now()
    selesai = catat_akhir - catat_awal
    print(f"Waktu TOTAL yang dibutuhkan {selesai} detik {catat_awal} s/d {catat_akhir}")
```

- c. Hasil Eksekusi
 - File server.py

```
• • •
                                                                    tugas_individu — python file_server.py — 121×54
Last login: Fri Jun 18 01:47:08 on ttys001
[base] chintyadewi@chintya ~ % cd /Users/chintyadewi/Pemrograman_Jaringan_D/progjar4a/tugas_individu (base) chintyadewi@chintya tugas_individu % python file_server.py [WARNING:root:server berjalan di ip address ('127.0.0.1', 1234) WARNING:root:connection from ('127.0.0.1', 63703)
WARNING:root:string diproses: GET pokijan.jpg
WARNING:root:memproses request: GET
WARNING:root:connection from ('127.0.0.1', 63704)
WARNING:root:string diproses: GET pokijan.jpg
 WARNING:root:memproses request: GET
WARNING:root:connection from ('127.0.0.1', 63712)
WARNING:root:connection from ('127.0.0.1', 63715)
 WARNING:root:string diproses: GET pokijan.jpg
WARNING:root:memproses request: GET
WARNING:root:string diproses: GET pokijan.jpg
WARNING:root:connection from ('127.0.0.1', 63716)
 WARNING:root:memproses request: GET
 WARNING:root:string diproses: GET pokijan.jpg
WARNING:root:memproses request: GET
WARNING:root:connection from ('127.0.0.1', 63720)
 WARNING:root:string diproses: GET pokijan.jpg
 WARNING:root:memproses request: GET
WARNING:root:connection from ('127.0.0.1', 63721)
WARNING:root:connection from ('127.0.0.1', 63725)
 WARNING:root:string diproses: GET pokijan.jpg
WARNING:root:memproses request: GET WARNING:root:connection from ('127.0.0.1', 63728)
WARNING:root:string diproses: GET pokijan.jpg
WARNING:root:string diproses: GET pokijan.jpg
WARNING:root:connection from ('127.0.0.1', 63730)
 WARNING:root:memproses request: GET
 WARNING:root:memproses request: GET
WARNING:root:connection from ('127.0.0.1', 63731)
WARNING:root:connection from ('127.0.0.1', 63732)
 WARNING:root:string diproses: GET pokijan.jpg
WARNING:root:memproses request: GET
WARNING:root:connection from ('127.0.0.1', 63733)
WARNING:root:string diproses: GET pokijan.jpg
WARNING:root:memproses request: GET
WARNING:root:string diproses: GET pokijan.jpg
WARNING:root:string diproses: GET pokijan.jpg
WARNING:root:memproses request: GET
WARNING:root:connection from ('127.0.0.1', 63734)
WARNING:root:connection from ('127.0.0.1', 63735)
WARNING:root:connection from ('127.0.0.1', 63736)
WARNING:root:string diproses: GET pokijan.jpg
WARNING:root:string diproses: GET pokijan.jpg
 WARNING:root:memproses request: GET
 WARNING:root:string diproses: GET pokijan.jpg
WARNING:root:memproses request: GET WARNING:root:memproses request: GET WARNING:root:connection from ('127.0.0.1', 63738) WARNING:root:connection from ('127.0.0.1', 63740) WARNING:root:connection from ('127.0.0.1', 63741)
 WARNING:root:string diproses: GET pokijan.jpg
```

File udp_multi_thread.py

```
Last logis: Fri lum 18 81:48:89 on ttys801
(base) chintyades/Behintya * % of /Users/chintyades/Pemrograman_laringam_D/progjar4a/tugas_individu
(base) chintyades/Behintya * % of /Users/chintyades/IPemrograman_laringam_D/progjar4a/tugas_individu
(base) chintyades/Behintya tugas_individu % python udp_multi_thread.py
(mengirim 0
0 mengirim 1
0 mengirim 2
0 mengirim 2
0 mengirim 2
0 mengirim 3
0 mengirim 4
0 mengirim 6
0 merogram 6 merogram 7 merogram 6 merogram 7 merogram 8 merogram 8 merogram 9 m
```

```
mengirim 93
WARNING:root:connecting to ('127.0.0.1', 1234)
WARNING:root:sending message
mengirim 94
WARNING:root:sending message
WARNING:root:sending message
mengirim 95
WARNING:root:connecting to ('127.0.0.1', 1234)
mengirim 96
WARNING:root:sending message
mengirim 97
WARNING:root:connecting to ('127.0.0.1', 1234)
mengirim 98
WARNING:root:connecting to ('127.0.0.1', 1234)
Wengirim 98
WARNING:root:sending message
mengirim 99
WARNING:root:sending message
wARNING:root:sending message
wARNING:root:sending message
wARNING:root:sending message
WARNING:root:sending message
```