Itamar Soldá Junior – 1992821

1. Iniciar Servidor

2. Cadastrar Animal

3. Ler Animal

4. Atualizar Animal

134 136.429287572 127.0.0.1	127.0.0.1	TCP	222 36778 → 12345 [PSH, ACK] Seq=384 Ack=485 Win=65536 Len=156 TSval=2785180334 TSecr=2785...
135 136.430404475 127.0.0.1	127.0.0.1	TCP	142 12345 → 36778 [PSH, ACK] Seq=485 Ack=540 Win=65536 Len=76 TSval=2785180335 TSecr=27851...
136 136.430427915 127.0.0.1	127.0.0.1	TCP	66 36778 → 12345 [ACK] Seq=540 Ack=561 Win=65536 Len=0 TSval=2785180335 TSecr=2785180335

▸ Frame 134: 222 bytes on wire (1776 bits), 222 bytes captured (1776 bits) on interface lo, id 0
▸ Ethernet II, Src: 00:00:00_00:00:00 (00:00:00:00:00:00), Dst: 00:00:00_00:00:00 (00:00:00:00:00:00)
▸ Internet Protocol Version 4, Src: 127.0.0.1, Dst: 127.0.0.1
▸ Transmission Control Protocol, Src Port: 36778, Dst Port: 12345, Seq: 384, Ack: 485, Len: 156
▾ Data (156 bytes)
    Data: 5059524f00300004000000030000008400010000000035a5232073657270656e74207574...

```
0040  91 54 50 59 52 4f 00 30  00 04 00 00 00 00 03 00 00   ·TPYRO·0 ········
0050  00 84 00 01 00 00 00 00  35 a5 23 20 73 65 72 70      ········ 5·# serp
0060  65 6e 74 20 75 74 66 2d  38 20 70 79 74 68 6f 6e      ent utf- 8 python
0070  33 2e 32 0a 28 27 6f 62  6a 5f 34 64 30 63 65 32      3.2·('ob j_4d0ce2
0080  31 31 61 39 30 30 34 34  35 39 38 66 36 36 63 63      11a90044 598f66cc
0090  30 33 32 33 33 38 39 32  32 36 27 2c 27 61 74 75      03233892 26','atu
00a0  61 6c 69 7a 61 72 5f 61  6e 69 6d 61 6c 27 2c 28      alizar_a nimal',(
00b0  31 2c 27 62 6f 62 69 27  2c 27 31 32 27 2c 27 6d      1,'bobi' ,'12','m
00c0  27 2c 27 31 32 27 2c 2c  31 32 2e 30 2c 27 34 35 39   ','12',,1 2.0,'459
00d0  39 38 32 35 30 38 36 33  27 29 2c 7b 7d 29            98250863 '),{})
```

○ ⟨ Data (data.data), 156 byte(s)   Packets: 136 · Displayed: 16 (11.8%)   Profile: Default

5. Excluir

143 157.916486429 127.0.0.1	127.0.0.1	TCP	181 36778 → 12345 [PSH, ACK] Seq=540 Ack=561 Win=65536 Len=115 TSval=2785201821 TSecr=2785...
144 157.917425753 127.0.0.1	127.0.0.1	TCP	142 12345 → 36778 [PSH, ACK] Seq=561 Ack=655 Win=65536 Len=76 TSval=2785201822 TSecr=27852...
145 157.917449358 127.0.0.1	127.0.0.1	TCP	66 36778 → 12345 [ACK] Seq=655 Ack=637 Win=65536 Len=0 TSval=2785201822 TSecr=2785201822

▸ Frame 143: 181 bytes on wire (1448 bits), 181 bytes captured (1448 bits) on interface lo, id 0
▸ Ethernet II, Src: 00:00:00_00:00:00 (00:00:00:00:00:00), Dst: 00:00:00_00:00:00 (00:00:00:00:00:00)
▸ Internet Protocol Version 4, Src: 127.0.0.1, Dst: 127.0.0.1
▸ Transmission Control Protocol, Src Port: 36778, Dst Port: 12345, Seq: 540, Ack: 561, Len: 115
▾ Data (115 bytes)
    Data: 5059524f00300004000000040000005b000100000000357d232073657270656e74207574...

```
0030  02 00 fe 9b 00 00 01 01  08 0a a6 02 ce 9d a6 02      ········ ········
0040  7a af 50 59 52 4f 00 30  00 04 00 00 00 04 00 00      z·PYRO·0 ········
0050  00 5b 00 01 00 00 00 00  35 7d 23 20 73 65 72 70      ·[······ 5}# serp
0060  65 6e 74 20 75 74 66 2d  38 20 70 79 74 68 6f 6e      ent utf- 8 python
0070  33 2e 32 0a 28 27 6f 62  6a 5f 34 64 30 63 65 32      3.2·('ob j_4d0ce2
0080  31 31 61 39 30 30 34 34  35 39 38 66 36 36 63 63      11a90044 598f66cc
0090  30 33 32 33 33 38 39 32  32 36 27 2c 27 65 78 63      03233892 26','exc
00a0  6c 75 69 72 5f 61 6e 69  6d 61 6c 27 2c 28 31 2c      luir_ani mal',(1,
00b0  29 2c 7b 7d 29                                        ),{})
```

○ ⟨ Data (data.data), 115 byte(s)   Packets: 158 · Displayed: 19 (12.0%)   Profile: Default

6. Sair

178 199.929365958 127.0.0.1	127.0.0.1	TCP	66 36778 → 12345 [FIN, ACK] Seq=655 Ack=637 Win=65536 Len=0 TSval=2785243834 TSecr=278520...
179 199.929631095 127.0.0.1	127.0.0.1	TCP	66 12345 → 36778 [FIN, ACK] Seq=637 Ack=656 Win=65536 Len=0 TSval=2785243834 TSecr=278524...
180 199.929673845 127.0.0.1	127.0.0.1	TCP	66 36778 → 12345 [ACK] Seq=656 Ack=638 Win=65536 Len=0 TSval=2785243835 TSecr=2785243834

▸ Frame 178: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface lo, id 0
▸ Ethernet II, Src: 00:00:00_00:00:00 (00:00:00:00:00:00), Dst: 00:00:00_00:00:00 (00:00:00:00:00:00)
▸ Internet Protocol Version 4, Src: 127.0.0.1, Dst: 127.0.0.1
▸ Transmission Control Protocol, Src Port: 36778, Dst Port: 12345, Seq: 655, Ack: 637, Len: 0

```
0000  00 00 00 00 00 00 00 00  00 00 00 00 08 00 45 00      ········ ······E·
0010  00 34 5f 34 40 00 40 06  dd 8d 7f 00 00 01 7f 00      ·4_4@·@· ········
0020  00 01 8f aa 30 39 b9 9a  39 f1 bc 20 23 62 80 11      ····09·· 9·· #b··
0030  02 00 fe 28 00 00 01 01  08 0a a6 03 72 ba a6 02      ···(···· ····r···
0040  ce 9e                                                 ··
```

○ ⟨ wireshark_loSPQIX2.pcapng   Packets: 180 · Displayed: 22 (12.2%)   Profile: Default

7. Desconexão do servidor

251 291.026452577 127.0.0.1	127.0.0.1	TCP	66 40736 → 9090 [FIN, ACK] Seq=310 Ack=280 Win=65536 Len=0 TSval=2785334931 TSecr=2785043...
252 291.026722937 127.0.0.1	127.0.0.1	TCP	66 9090 → 40736 [FIN, ACK] Seq=280 Ack=311 Win=65536 Len=0 TSval=2785334932 TSecr=2785334...
253 291.026767345 127.0.0.1	127.0.0.1	TCP	66 40736 → 9090 [ACK] Seq=311 Ack=281 Win=65536 Len=0 TSval=2785334932 TSecr=2785334932

▸ Frame 252: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface lo, id 0
▸ Ethernet II, Src: 00:00:00_00:00:00 (00:00:00:00:00:00), Dst: 00:00:00_00:00:00 (00:00:00:00:00:00)
▸ Internet Protocol Version 4, Src: 127.0.0.1, Dst: 127.0.0.1
▸ Transmission Control Protocol, Src Port: 9090, Dst Port: 40736, Seq: 280, Ack: 311, Len: 0

```
0000  00 00 00 00 00 00 00 00  00 00 00 00 08 00 45 00      ········ ······E·
0010  00 34 1f 81 40 00 40 06  1d 41 7f 00 00 01 7f 00      ·4··@·@· ·A······
0020  00 01 23 82 9f 20 c3 b8  fa 41 87 08 35 40 80 11      ··#·· ·· ·A··5@··
0030  02 00 fe 28 00 00 01 01  08 0a a6 04 d6 94 a6 04      ···(···· ········
0040  d6 93                                                 ··
```

○ ⟨ wireshark_loSPQIX2.pcapng   Packets: 253 · Displayed: 25 (9.9%)   Profile: Default

8. TCP Stream

PYRO.0........._......5.# serpent utf-8 python3.2
{'handshake':'hello','object':'obj_4d0ce211a90044598f66cc0323389226'}PYRO.
0...............5.CORR..}.....D..P.-.A.%# serpent utf-8 python3.2
{'handshake':'hello','meta':{'methods':
['cadastrar_animal','atualizar_animal','ler_animal','excluir_animal'],'oneway':[],'attrs':[]}}PYRO.
0...............5.# serpent utf-8 python3.2
('obj_4d0ce211a90044598f66cc0323389226','cadastrar_animal',('bob','12','m','12',12.0,'45998250863'),{})PYRO.
0.........@......5vCORR..s.....H.....sS0.# serpent utf-8 python3.2
'Animal cadastrado com sucesso! ID: 1'PYRO.0.........W......5w# serpent utf-8 python3.2
('obj_4d0ce211a90044598f66cc0323389226','ler_animal',(1,),{})PYRO.0.........{......5.CORR....[...F...^.....#
serpent utf-8 python3.2
{'id':1,'nome':'bob','idade':'12','sexo':'m','peso':'12','tamanho':12.0,'telefone':'45998250863'}PYRO.
0...............5.# serpent utf-8 python3.2
('obj_4d0ce211a90044598f66cc0323389226','atualizar_animal',(1,'bobi','12','m','12',12.0,'45998250863'),
{})PYRO.0...............5VCORR.....{..C....v...P# serpent utf-8 python3.2
TruePYRO.0.........[......5}# serpent utf-8 python3.2
('obj_4d0ce211a90044598f66cc0323389226','excluir_animal',(1,),{})PYRO.0...............5WCORR....[.
$.0.........# serpent utf-8 python3.2
True