

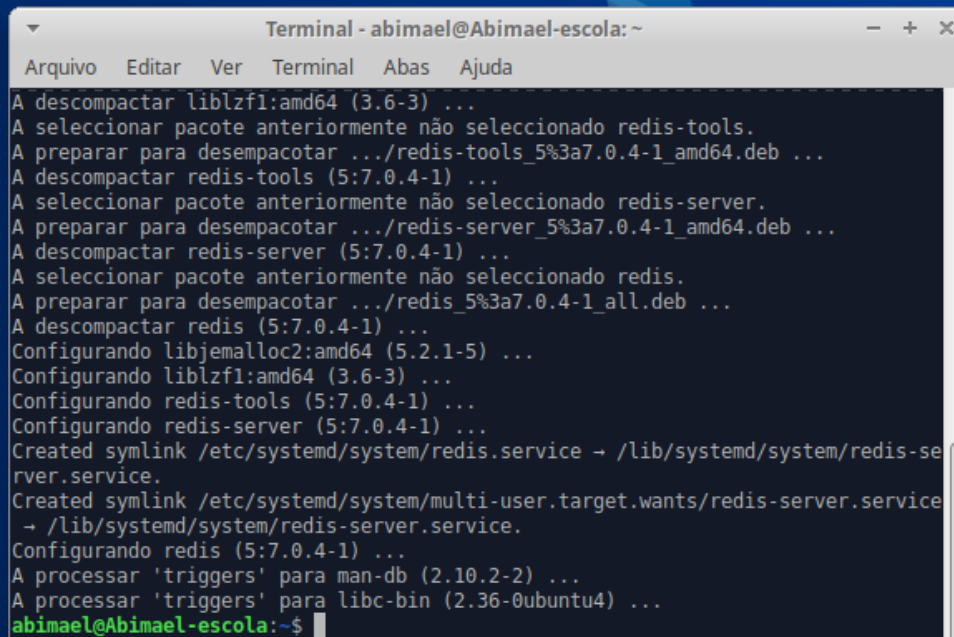
Sistema Operacional de Redes 2

Nome: Carlos Abimael Oliveira do Nascimento

Turma: P8 de Informática

Instalar o Redis numa máquina Virtual Linux.

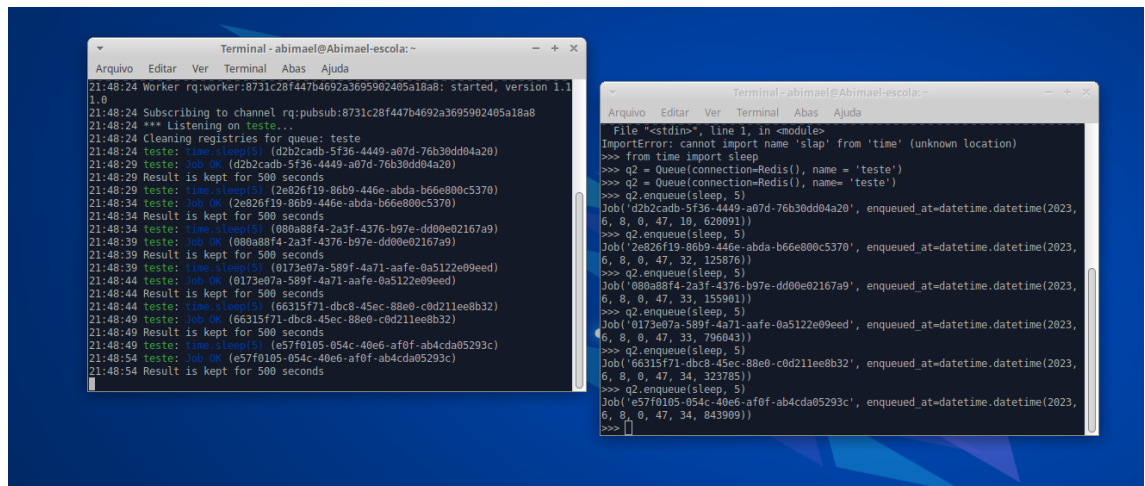
1. Instalando Redis



A terminal window titled "Terminal - abimael@Abimael-escola: ~" displays the output of the `dpkg --get-selections` command. The output shows the installation progress for various packages, including `liblzfl:amd64`, `redis-tools`, `redis-server`, and `redis`. The terminal also shows the configuration of `libjemalloc2:amd64`, `liblzfl:amd64`, `redis-tools`, `redis-server`, and `redis`. The prompt `abimael@Abimael-escola:~$` is visible at the bottom.

```
Terminal - abimael@Abimael-escola: ~
Arquivo  Editar  Ver  Terminal  Abas  Ajuda
A descompactar liblzfl:amd64 (3.6-3) ...
A seleccionar pacote anteriormente não seleccionado redis-tools.
A preparar para desempacotar .../redis-tools_5%3a7.0.4-1_amd64.deb ...
A descompactar redis-tools (5:7.0.4-1) ...
A seleccionar pacote anteriormente não seleccionado redis-server.
A preparar para desempacotar .../redis-server_5%3a7.0.4-1_amd64.deb ...
A descompactar redis-server (5:7.0.4-1) ...
A seleccionar pacote anteriormente não seleccionado redis.
A preparar para desempacotar .../redis_5%3a7.0.4-1_all.deb ...
A descompactar redis (5:7.0.4-1) ...
Configurando libjemalloc2:amd64 (5.2.1-5) ...
Configurando liblzfl:amd64 (3.6-3) ...
Configurando redis-tools (5:7.0.4-1) ...
Configurando redis-server (5:7.0.4-1) ...
Created symlink /etc/systemd/system/redis.service → /lib/systemd/system/redis-se
rver.service.
Created symlink /etc/systemd/system/multi-user.target.wants/redis-server.service
→ /lib/systemd/system/redis-server.service.
Configurando redis (5:7.0.4-1) ...
A processar 'triggers' para man-db (2.10.2-2) ...
A processar 'triggers' para libc-bin (2.36-0ubuntu4) ...
abimael@Abimael-escola:~$
```

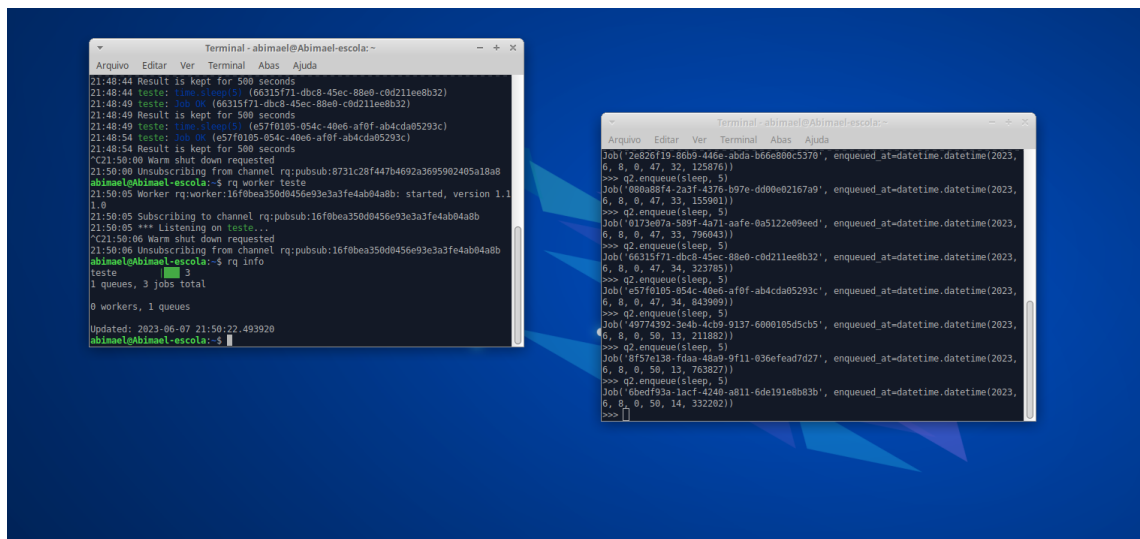
2. Rodando um *Job* no Redis



The image shows two terminal windows. The left window displays the output of a Redis worker, showing it has subscribed to a channel and is processing jobs. The right window shows the Redis CLI interface with commands to create a queue, enqueue a job, and check the queue's state.

```
Terminal - abimael@Abimael-escola:~  
Arquivo Editar Ver Terminal Abas Ajuda  
21:48:24 Worker rq:worker:8731c28f447b4692a3695902405a18a8: started, version 1.1  
1.0  
21:48:24 Subscribing to channel rq:pubsub:8731c28f447b4692a3695902405a18a8  
21:48:24 *** Listening on teste...  
21:48:24 Cleaning registries for queue: teste  
21:48:24 teste: time.sleep(5) (d2b2cadb-5f36-4449-a07d-76b30dd04a20)  
21:48:29 teste: Job OK (d2b2cadb-5f36-4449-a07d-76b30dd04a20)  
21:48:29 Result is kept for 500 seconds  
21:48:29 teste: time.sleep(5) (2e826f19-86b9-446e-abda-b66e800c5370)  
21:48:34 teste: Job OK (2e826f19-86b9-446e-abda-b66e800c5370)  
21:48:34 Result is kept for 500 seconds  
21:48:34 teste: time.sleep(5) (080a88f4-2a3f-4376-b97e-dd00e02167a9)  
21:48:39 teste: Job OK (080a88f4-2a3f-4376-b97e-dd00e02167a9)  
21:48:39 Result is kept for 500 seconds  
21:48:39 teste: time.sleep(5) (0173e07a-589f-4a71-aafe-0a5122e09eed)  
21:48:44 teste: Job OK (0173e07a-589f-4a71-aafe-0a5122e09eed)  
21:48:44 Result is kept for 500 seconds  
21:48:44 teste: time.sleep(5) (66315f71-dbc8-45ec-88e0-c0d211ee8b32)  
21:48:49 teste: Job OK (66315f71-dbc8-45ec-88e0-c0d211ee8b32)  
21:48:49 Result is kept for 500 seconds  
21:48:49 teste: time.sleep(5) (e57f0105-054c-40e6-af0f-ab4cda05293c)  
21:48:54 teste: Job OK (e57f0105-054c-40e6-af0f-ab4cda05293c)  
21:48:54 Result is kept for 500 seconds  
[...]  
Terminal - abimael@Abimael-escola:~  
Arquivo Editar Ver Terminal Abas Ajuda  
File "<stdin>", line 1, in <module>  
ImportError: cannot import name 'slap' from 'time' (unknown location)  
>>> from time import sleep  
>>> q2 = Queue(connection=Redis(), name = 'teste')  
>>> q2 = Queue(connection=Redis(), name = 'teste')  
>>> q2.enqueue(sleep, 5)  
Job('d2b2cadb-5f36-4449-a07d-76b30dd04a20', enqueued_at=datetime.datetime(2023,  
6, 8, 0, 47, 10, 620091))  
>>> q2.enqueue(sleep, 5)  
Job('2e826f19-86b9-446e-abda-b66e800c5370', enqueued_at=datetime.datetime(2023,  
6, 8, 0, 47, 32, 125876))  
>>> q2.enqueue(sleep, 5)  
Job('080a88f4-2a3f-4376-b97e-dd00e02167a9', enqueued_at=datetime.datetime(2023,  
6, 8, 0, 47, 33, 155901))  
>>> q2.enqueue(sleep, 5)  
Job('0173e07a-589f-4a71-aafe-0a5122e09eed', enqueued_at=datetime.datetime(2023,  
6, 8, 0, 47, 33, 796043))  
>>> q2.enqueue(sleep, 5)  
Job('66315f71-dbc8-45ec-88e0-c0d211ee8b32', enqueued_at=datetime.datetime(2023,  
6, 8, 0, 47, 34, 323785))  
>>> q2.enqueue(sleep, 5)  
Job('e57f0105-054c-40e6-af0f-ab4cda05293c', enqueued_at=datetime.datetime(2023,  
6, 8, 0, 47, 34, 843909))  
>>> [
```

3. Rodando 3 *jobs* no Redis



The image shows two terminal windows. The left window displays the output of a Redis worker, showing it has subscribed to a channel and is processing jobs. The right window shows the Redis CLI interface with commands to create a queue, enqueue a job, and check the queue's state.

```
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21:48:34 teste: Job OK (2e826f19-86b9-446e-abda-b66e800c5370)  
21:48:34 Result is kept for 500 seconds  
21:48:34 teste: time.sleep(5) (080a88f4-2a3f-4376-b97e-dd00e02167a9)  
21:48:39 teste: Job OK (080a88f4-2a3f-4376-b97e-dd00e02167a9)  
21:48:39 Result is kept for 500 seconds  
21:48:39 teste: time.sleep(5) (0173e07a-589f-4a71-aafe-0a5122e09eed)  
21:48:44 teste: Job OK (0173e07a-589f-4a71-aafe-0a5122e09eed)  
21:48:44 Result is kept for 500 seconds  
21:48:44 teste: time.sleep(5) (66315f71-dbc8-45ec-88e0-c0d211ee8b32)  
21:48:49 teste: Job OK (66315f71-dbc8-45ec-88e0-c0d211ee8b32)  
21:48:49 Result is kept for 500 seconds  
21:48:49 teste: time.sleep(5) (e57f0105-054c-40e6-af0f-ab4cda05293c)  
21:48:54 teste: Job OK (e57f0105-054c-40e6-af0f-ab4cda05293c)  
21:48:54 Result is kept for 500 seconds  
[...]  
Terminal - abimael@Abimael-escola:~  
Arquivo Editar Ver Terminal Abas Ajuda  
Job('2e826f19-86b9-446e-abda-b66e800c5370', enqueued_at=datetime.datetime(2023,  
6, 8, 0, 47, 32, 125876))  
>>> q2.enqueue(sleep, 5)  
Job('080a88f4-2a3f-4376-b97e-dd00e02167a9', enqueued_at=datetime.datetime(2023,  
6, 8, 0, 47, 33, 155901))  
>>> q2.enqueue(sleep, 5)  
Job('0173e07a-589f-4a71-aafe-0a5122e09eed', enqueued_at=datetime.datetime(2023,  
6, 8, 0, 47, 33, 796043))  
>>> q2.enqueue(sleep, 5)  
Job('66315f71-dbc8-45ec-88e0-c0d211ee8b32', enqueued_at=datetime.datetime(2023,  
6, 8, 0, 47, 34, 323785))  
>>> q2.enqueue(sleep, 5)  
Job('e57f0105-054c-40e6-af0f-ab4cda05293c', enqueued_at=datetime.datetime(2023,  
6, 8, 0, 47, 34, 843909))  
>>> q2.enqueue(sleep, 5)  
Job('49774392-3e4b-4cb9-9137-6000105d5cb5', enqueued_at=datetime.datetime(2023,  
6, 8, 0, 50, 13, 211882))  
>>> q2.enqueue(sleep, 5)  
Job('8f57e138-fdaa-48a9-9f11-036efead7d27', enqueued_at=datetime.datetime(2023,  
6, 8, 0, 50, 13, 763827))  
>>> q2.enqueue(sleep, 5)  
Job('6bedf93a-lacf-4240-a811-6de191e8b3b', enqueued_at=datetime.datetime(2023,  
6, 8, 0, 50, 14, 332202))  
>>> [
```