

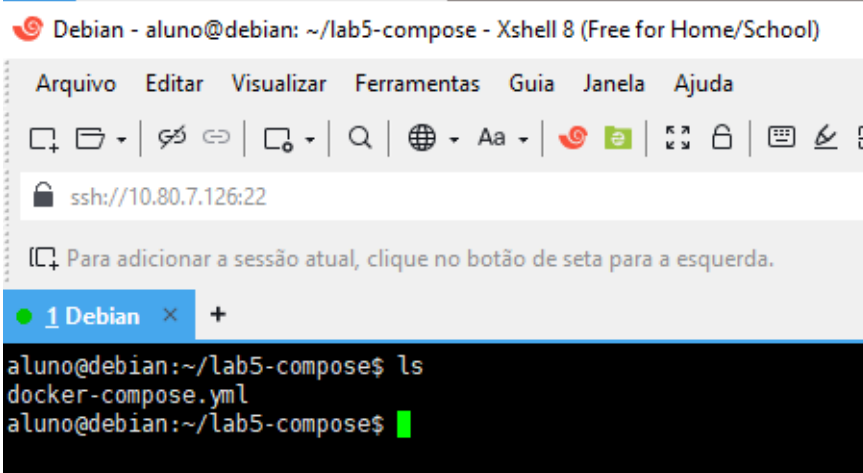
Pós-graduação CDL

Disciplina: Arquitetura de Microserviços e Microcontainer

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LAB 5 — Docker Compose (multi-container + env + logs + healthcheck introdutório)

Checkpoint A — Criar docker-compose.yml



The screenshot shows an Xshell terminal window titled "Debian - aluno@debian: ~/lab5-compose - Xshell 8 (Free for Home/School)". The terminal interface includes a menu bar (Arquivo, Editar, Visualizar, Ferramentas, Guia, Janela, Ajuda) and a toolbar with various icons. The address bar shows "ssh://10.80.7.126:22". Below the toolbar, a message reads: "Para adicionar a sessão atual, clique no botão de seta para a esquerda." The terminal session shows the user running the command `ls` in the directory `~/lab5-compose`, which lists the file `docker-compose.yml`. The prompt returns to `aluno@debian:~/lab5-compose$`.

```
Debian - aluno@debian: ~/lab5-compose - Xshell 8 (Free for Home/School)

Arquivo  Editar  Visualizar  Ferramentas  Guia  Janela  Ajuda

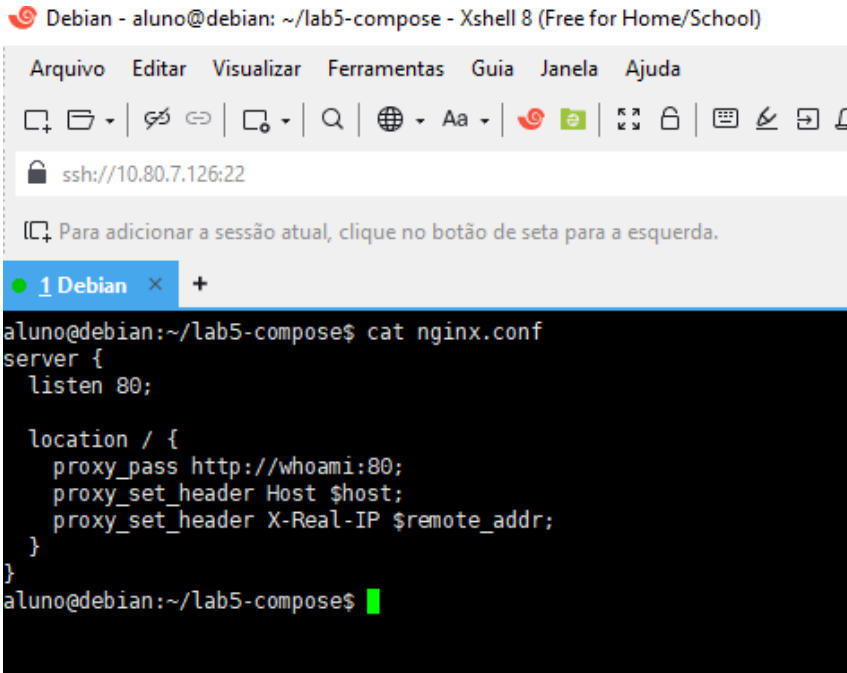
ssh://10.80.7.126:22

Para adicionar a sessão atual, clique no botão de seta para a esquerda.

1 Debian x +

aluno@debian:~/lab5-compose$ ls
docker-compose.yml
aluno@debian:~/lab5-compose$
```

Checkpoint B — Criar nginx.conf (reverse proxy)



The screenshot shows the same Xshell terminal window. The user runs the command `cat nginx.conf`, displaying the configuration for a reverse proxy. The configuration includes a `server` block with a `listen` directive on port 80 and a `location /` block that proxies requests to `http://whoami:80`, setting the `Host` and `X-Real-IP` headers. The terminal prompt returns to `aluno@debian:~/lab5-compose$`.

```
Debian - aluno@debian: ~/lab5-compose - Xshell 8 (Free for Home/School)

Arquivo  Editar  Visualizar  Ferramentas  Guia  Janela  Ajuda

ssh://10.80.7.126:22

Para adicionar a sessão atual, clique no botão de seta para a esquerda.

1 Debian x +

aluno@debian:~/lab5-compose$ cat nginx.conf
server {
    listen 80;

    location / {
        proxy_pass http://whoami:80;
        proxy_set_header Host $host;
        proxy_set_header X-Real-IP $remote_addr;
    }
}
aluno@debian:~/lab5-compose$
```

Checkpoint C — Subir o ambiente

```
aluno@debian:~/lab5-compose$ docker compose up -d
[+] up 7/7
✓ Image traefik/whoami:v1.10 Pulled 3.4s
✓ Network lab5-compose_default Created 0.1s
✓ Container lab5-whoami Created 0.3s
✓ Container lab5-nginx Created 0.3s
Error response from daemon: failed to set up container networking: driver failed programming external connectivity on endpoint
lab5-nginx (34f6b393e47f424b1f9becb00cd489873f711eddda39ef284a218267e62139e9): Bind for ::1:8080 failed: port is already allo
cated
aluno@debian:~/lab5-compose$ docker compose ps
NAME IMAGE COMMAND SERVICE CREATED STATUS PORTS
lab5-whoami traefik/whoami:v1.10 "/whoami" whoami About a minute ago Up About a minute (unhealthy) 80/tcp
aluno@debian:~/lab5-compose$ curl -s http://localhost:8080 | head -n 20
<h1>Recuperado no LAB 2</h1>
<p>Corrigi sem rebuild: usei docker exec.</p>
aluno@debian:~/lab5-compose$
```