

# Dev-Ops

## Task 4 Report

**Arash  
Behnamfar**



```
upstream ArashLand {  
    least_conn;  
    server 127.0.0.1:3000;  
    server 127.0.0.1:3001;  
}
```

```
location / {  
    proxy_pass http://ArashLand;  
    proxy_set_header Host $host;  
    proxy_set_header X-Real-IP $remote_addr;  
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;  
    proxy_set_header X-Forwarded-Proto $scheme;  
    add_header X-Upstream $upstream_addr always;  
}
```

```
devops@UbuntuServer:~$ cat app3000.py
from flask import Flask

app = Flask(__name__)

@app.route("/")
def hello():
    return "Hello from Flask app on PORT 3000!\n"

if __name__ == "__main__":
    app.run(host="127.0.0.1", port=3000)
```

```
devops@UbuntuServer:~$ cat app3001.py
from flask import Flask

app = Flask(__name__)

@app.route("/")
def hello():
    return "Hello from Flask app on PORT 3001!\n"

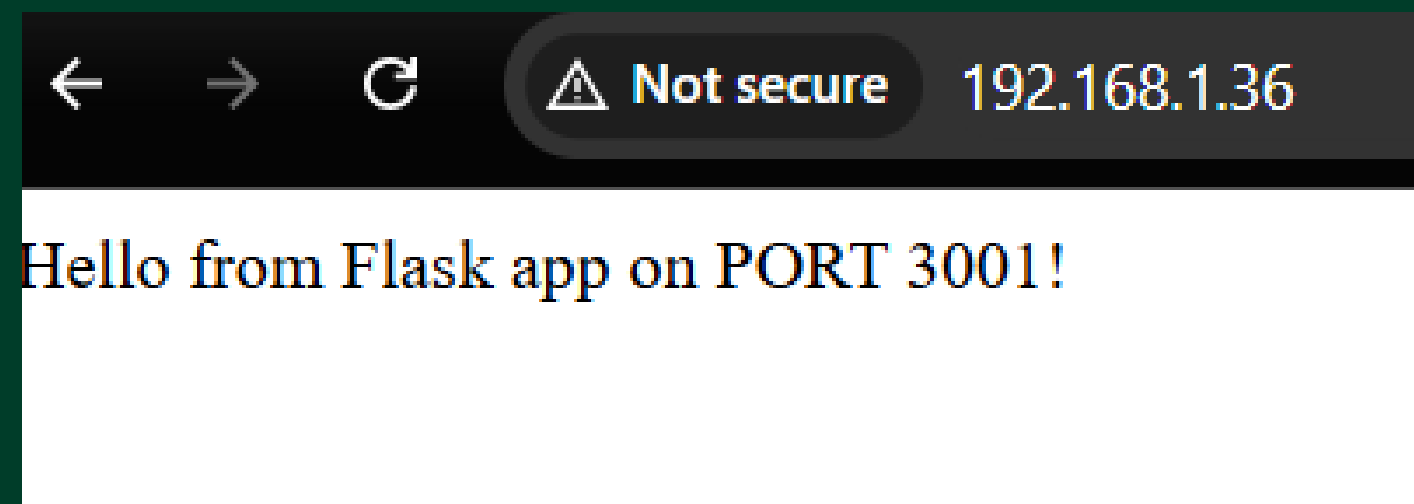
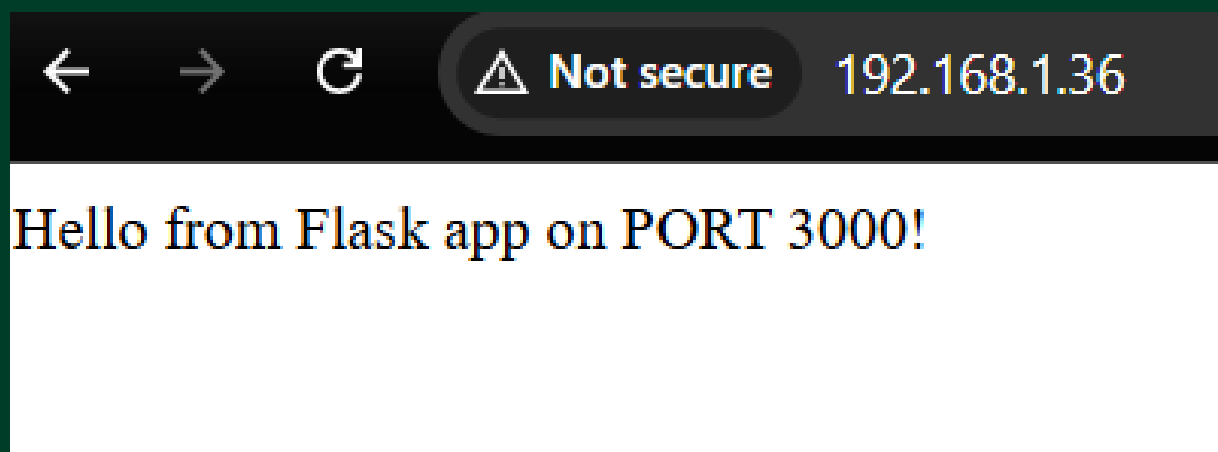
if __name__ == "__main__":
    app.run(host="127.0.0.1", port=3001)
```

```
devops@UbuntuServer:~$ python3 app3000.py
* Serving Flask app 'app3000'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:3000
Press CTRL+C to quit
127.0.0.1 - - [13/Sep/2025 00:40:10] "GET / HTTP/1.0" 200 -
127.0.0.1 - - [13/Sep/2025 00:40:10] "GET / HTTP/1.0" 200 -
127.0.0.1 - - [13/Sep/2025 00:40:10] "GET / HTTP/1.0" 200 -
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127.0.0.1 - - [13/Sep/2025 00:40:10] "GET / HTTP/1.0" 200 -
127.0.0.1 - - [13/Sep/2025 00:40:10] "GET / HTTP/1.0" 200 -
127.0.0.1 - - [13/Sep/2025 00:40:10] "GET / HTTP/1.0" 200 -
127.0.0.1 - - [13/Sep/2025 00:40:24] "GET / HTTP/1.0" 200 -
127.0.0.1 - - [13/Sep/2025 00:40:24] "GET / HTTP/1.0" 200 -
127.0.0.1 - - [13/Sep/2025 00:40:25] "GET / HTTP/1.0" 200 -
127.0.0.1 - - [13/Sep/2025 00:40:25] "GET / HTTP/1.0" 200 -
127.0.0.1 - - [13/Sep/2025 00:42:50] "GET / HTTP/1.0" 200 -
127.0.0.1 - - [13/Sep/2025 00:42:50] "GET / HTTP/1.0" 200 -
|
```

```
devops@UbuntuServer:~$ python3 app3001.py
* Serving Flask app 'app3001'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server inst
* Running on http://127.0.0.1:3001
Press CTRL+C to quit
127.0.0.1 - - [13/Sep/2025 00:40:23] "GET / HTTP/1.0" 200 -
127.0.0.1 - - [13/Sep/2025 00:40:24] "GET / HTTP/1.0" 200 -
127.0.0.1 - - [13/Sep/2025 00:40:25] "GET / HTTP/1.0" 200 -
127.0.0.1 - - [13/Sep/2025 00:40:25] "GET / HTTP/1.0" 200 -
127.0.0.1 - - [13/Sep/2025 00:42:50] "GET / HTTP/1.0" 200 -
127.0.0.1 - - [13/Sep/2025 00:42:50] "GET / HTTP/1.0" 200 -
127.0.0.1 - - [13/Sep/2025 00:42:50] "GET / HTTP/1.0" 200 -
```

حال به صورت یکی درمیان که رفرش کنیم، یکبار می‌گوید پورت ۳۰۰۰ و یکبار می‌گوید پورت ۳۰۰۱.

شاهد این امر، لاگ‌های دو اسلاید قبلیست که هم برنامه پورت ۳۰۰۰ لاگ انداخته و هم برنامه پورت ۳۰۰۱





استفاده از curl (فقط گفتم آیی و پورت وصل شده را بنویس)

```
devops@UbuntuServer:~$ for i in {1..10}; do curl -s -H 'Connection: close' -i http://localhost/ | grep -i X-Upstream; done
X-Upstream: 127.0.0.1:3001
X-Upstream: 127.0.0.1:3000
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```