



# UNIVERSITY OF INFORMATION TECHNOLOGY AND SCIENCES (UITS)

## LAB REPORT 3

### IT-326 : CLIENT SERVER PROGRAMMING LAB

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# Access Portfolio Profile By Using Ngrok

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## 1 Abstrac

ngrok is a globally distributed reverse proxy fronting your web services. running in any cloud or private network, or your machine. Ngrok is a cross-platform application that enables developers to expose a local development server to the Internet with minimal effort. The software makes your locally-hosted web server appear to be hosted on a subdomain of ngrok.com, meaning that no public IP or domain name on the local machine is needed.

## 2 Objective

In this lab report I will learn how to use Ngrok and how does it works and what is the procedure to access to see others any personal portfolio.

## 3 Working Procedure

1.At first I need to open Xampp and I download Ngrok file from the web site. In Ngrok web-site under "Your Authtoken" I get a token which I copy from the link.

Authenticate your ngrok agent. You only have to do this once. The Authtoken is saved in the default configuration file.

```
$ ngrok config add-authtoken 2HPie6zbUrB40Nd0ekZ5ILBXd9l_4yRdkv7dMVMap8rSz1HAM
```

Figure 1: Output

2.Now I need to open the Ngrok file from the file and wirte the command on it ,Which is " "ngrok http 80", Now my pc is a local development server which is hosted on a subdomain of ngrok.com.

```
ngrok tls --hostname=foo.com 443 # TLS traffic for foo.com to port 443
ngrok start foo bar baz # start tunnels from the configuration file

COMMANDS:
  api                use ngrok agent as an api client
  completion          generates shell completion code for bash or zsh
  config              update or migrate ngrok's configuration file
  credits             prints author and licensing information
  diagnose            diagnose connection issues
  help               Help about any command
  http               start an HTTP tunnel
  service            run and control an ngrok service on a target operating system
  start              start tunnels by name from the configuration file
  tcp                start a TCP tunnel
  tls                start a TLS tunnel
  tunnel             start a tunnel for use with a tunnel-group backend
  update             update ngrok to the latest version
  version            print the version string

OPTIONS:
  --config strings  path to config files; they are merged if multiple
  -h, --help        help for ngrok
  -v, --version     version for ngrok

ngrok is a command line application, try typing 'ngrok.exe http 80'
at this terminal prompt to expose port 80.
C:\Users\A\Downloads\ngrok-v3-stable-windows-amd64>ngrok config add-authtoken 2HPie6zbUrB40Nd0ekZ5ILBXd9l_4yRdkv7dMVMap8rSz1HAM
Authtoken saved to configuration file: C:\Users\A\AppData\Local\ngrok\ngrok.yml
C:\Users\A\Downloads\ngrok-v3-stable-windows-amd64>
```

Figure 2: Output

3. Now in this part I need to access my portfolio from the local server, so I have to open a new tab and I need to copy the forwarding address from Ngrok CMD.

```
C:\Users\A\Downloads\ngrok-v3-stable-windows-amd64\ngrok.exe - ngrok http 80
ngrok
Add Single Sign-On to your ngrok dashboard via your Identity Provider: https://ngrok.com/dashSSO
Session Status      online
Account             Nazmul Zaman (Plan: Free)
Version             3.1.0
Region              Asia Pacific (ap)
Latency              -
Web Interface        http://127.0.0.1:4040
Forwarding            https://4b7d-103-166-253-37.ap.ngrok.io -> http://localhost:80
Connections
  ttl    opn    rt1    rt5    p50    p90
    0     0     0.00  0.00  0.00  0.00
```

Figure 3: Output

5. Now I have to paste the Ngrok forwarding address and also the file address where I saved my portfolio file.

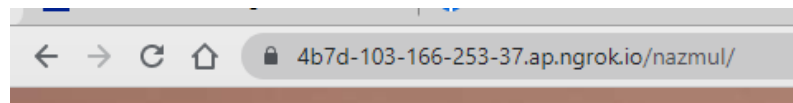


Figure 4: Output

6. My portfolio are visible there:

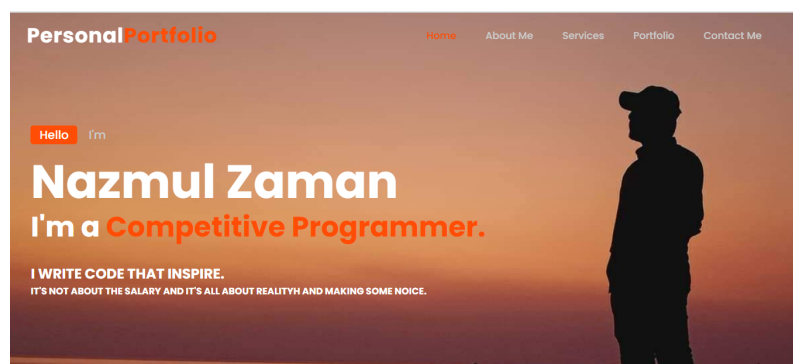


Figure 5: Output

6. To see who is search my portfolio, In my local pc server I open browser and type "localhost:4040" here I see the result who is searching my portfolio

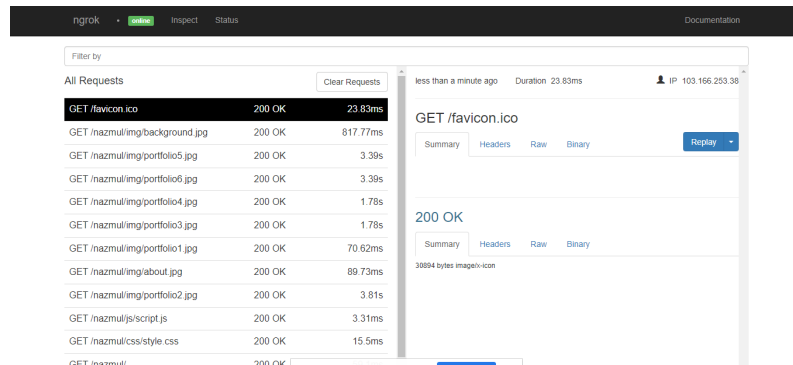


Figure 6: Output

## 4 Conclusion

From this lab I have learn how to use Ngrok and how to use my pc as local server and access my portfolio by using another device.

## 5 References