

Setting up my APIs with NGINX, PHP, and MySQL

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NGINX

- make sure you have NGINX installed in your C drive
- make sure your nginx.conf file server block matches the one shown below:

```
server { #framework taken from lecture 6, part 2, page 16
    listen 80;
    server_name localhost;
    root C:/nginx-1.28.0/html; # Adjust path for your system
    # root C:/tools/nginx/html; # chocolatey
    index index.php;

    location / {
        try_files $uri $uri/ /index.php$is_args$args;
    }

    location ~ \.php$ {
        fastcgi_pass 127.0.0.1:9000; # PHP-FPM address
        fastcgi_index index.php;
        fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
        include fastcgi_params;
    }
}
```

- next, open a terminal in your NGINX folder
- run `"./nginx.exe"` to start your server

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\nginx-1.28.0> ./nginx.exe
|
```

PHP

- make sure you have php installed in your C drive
- run `".\php-cgi.exe -b 127.0.0.1:9000 -c C:\php\php.ini"` to start your php server
- php traffic should automatically be routed to this server because of the NGINX config

MySQL

- make sure your MySQL service is running as MySQL80
- either through the GUI or CLI, add the following schemas and tables
 - public_apis
 - announcements (id, announcement, location, date_announced)
 - arts (id, name, size, artist)
 - audios (id, name, size, metadata)
 - candidates (id, name, votes, position)
 - dates (id, day, time, event)
 - grades (id, name, Math, English, Social_Studies)

- continued
 - public_apis continued
 - `iot_devices` (`id`, `device_type`, `device_description`, `is_online`)
 - `stock_tickers` (`ticker_symbol`, `full_name`, `market_value`, `is_up`)
 - private_apis
 - `employees` (`id`, `name`, `tenure`, `department`)
 - `homeworks` (`id`, `name`, `questions`, `class`)

Finishing and Acknowledgement

- assuming you set up all of your services correctly, you should be able to use my APIs seamlessly
- Acknowledgement: much of the content in these slides is a shortened version of content that can be found [here](#)