

# Week 3: Application Selection for Performance Testing

## Overview

In Week 3, I selected and installed applications to test the server's performance under different workloads. These applications will allow me to evaluate CPU, memory, disk I/O, network usage, and server response in later weeks.

### 1. Application Selection

I chose applications representing different types of workloads:

| Workload Type      | Application | Reason for Selection                 |
|--------------------|-------------|--------------------------------------|
| CPU-intensive      | stress      | Generates high CPU load for testing  |
| RAM-intensive      | memtester   | Tests memory usage                   |
| Disk I/O-intensive | fio         | Measures read/write disk performance |
| Network-intensive  | iperf3      | Tests network throughput             |
| Server application | nginx       | Represents a common web server load  |

Screenshot Evidence:

### 2. Application Installation

The applications were installed via SSH from my workstation:

```
sudo apt update
```

```
sudo apt install stress memtester fio iperf3 nginx -y
```