**CSEN 241: Cloud Computing HW 1**

**Title: System VS OS Virtualization**



**By:**

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| Name | Student ID | Email ID |
| Kartiki Rajendra Dindorkar | 1651519 | [kdindorkar@scu.edu](mailto:kdindorkar@scu.edu) |

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# System Configurations

|  |  |
| --- | --- |
| Operating System | MAC OS Sonoma 14.2.1 |
| Chip | Apple M2 |
| System Architecture | arm64 |
| Memory | 8 GB |
| Number of Cores | 8 (4 performance and 4 efficiency) |

# GitHub Repository

[GitHub - CloudComputing](https://github.com/Kartiki19/CloudComputing)

# QEMU Installation and Ubuntu 20.04

Refer to [QEMU and Ubuntu 20.04 Setup](https://github.com/Kartiki19/CloudComputing/blob/main/QEMUUbuntuSetup.md) for Installing QEMU on Apple MAC M2 chip and setting Ubuntu 20.04 OS.

# Ubuntu 20.04 Configuration

# Docker Installation

# Ubuntu 20.04 with Sysbench on Docker

# Experiments

## QEMU (System Virtualization)

## Docker (OS Virtualization)

# Analysis

# Vagrant

# Automation

# Conclusion