Resource Monitor Installation and Configuration Guide

## 1. Introduction

This document provides a comprehensive guide to installing, configuring, and operating the Resource Monitor scripts. It covers prerequisites, installation steps, configuration, systemd service setup, testing, and troubleshooting.

## 2. Prerequisites

* - Root or sudo access on the target Linux system
* - Basic familiarity with bash scripting
* - Network connectivity to SMTP server
* - msmtp installed or available via package manager

## 3. Installation Steps

1. Place the following scripts in the same directory:

1. - resource\_monitor.sh
2. - config.sh
3. - send\_alert\_email.sh
4. - install\_monitor.sh

2. Run the installer script as root:

|  |
| --- |
| sudo bash install\_monitor.sh |

## 4. Configuration Steps

The installer will guide you through:

* - Installing msmtp if not already present
* - Configuring SMTP credentials in /etc/msmtprc
* - Choosing the log file location (default: /var/log/resource\_monitor.log)
* - Optionally setting up systemd service

## 5. Systemd Service Setup

If selected, the installer creates and enables a systemd service named `resource\_monitor.service` or your custom service name. You can manage it using:

* `systemctl start resource\_monitor`
* `systemctl stop resource\_monitor`
* `systemctl status resource\_monitor`
* `systemctl enable resource\_monitor`
* `systemctl disable resource\_monitor`
* `journalctl -u resource\_monitor -f`

## 6. Testing and Verification

1. Simulate manual alert: `./resource\_monitor.sh CPU 95`
2. Check email for alert formatting and content
3. View logs: `tail -f /var/log/resource\_monitor.log`
4. Lower thresholds to force automatic alert

## 7. Troubleshooting

Common issues and resolutions:

* msmtp not sending email: Verify /etc/msmtprc credentials and network connectivity.
* Script not starting on boot: Check service status and logs via journalctl.
* Missing dependencies: Ensure all required commands are installed.

## 8. Commands Summary

|  |  |
| --- | --- |
| Action | Command |
| Install Monitoring Scripts | sudo bash install\_monitor.sh |
| Manual Alert Test | ./resource\_monitor.sh CPU 95 |
| View Logs | tail -f /var/log/resource\_monitor.log |
| Manage Service | systemctl [start|stop|status] resource\_monitor |