First, I created a Python file named system_health_P3.py that:

- 1. Displays system health metrics
- 2. Shows warning logs
- 3. Generates system status plots (bonus functionality)
- Accepts user-defined thresholds and time intervals as input parameters

erfan@erfan-virtual-machine:~/Desktop\$ sudo nano /home/erfan/Desktop/system_health_P3.py

```
import psutil
import time
import argparse
import logging
import sys
from pathlib import Path
import matplotlib.pyplot as plt
import numpy as np
from datetime import datetime
import matplotlib
matplotlib.use('Agg')
history length = 60
cpu_history = []
mem_history = []
disk_history = []
timestamps = []
def setup logging():
    """Configure logging to work with systemd's journal and a log file"""
    logger = logging.getLogger()
    logger.setLevel(logging.WARNING)
    stderr_handler = logging.StreamHandler()
    stderr_handler.setFormatter(logging.Formatter(
    logger.addHandler(stderr handler)
    log file = '/var/log/system monitor.log'
        Path(log file).parent.mkdir(exist ok=True, mode=0o755)
        file_handler = logging.FileHandler(log_file)
        file_handler.setFormatter(logging.Formatter(
        logger.addHandler(file handler)
        logger.warning(f"Couldn't open log file {log file}, using only journald logging")
def get top processes(n=3):
    for proc in psutil.process iter(['pid', 'name', 'cpu percent', 'memory percent']):
            procs.append(proc.info)
        except (psutil.NoSuchProcess, psutil.AccessDenied):
    top_cpu = sorted(procs, key=lambda p: p['cpu_percent'], reverse=True)[:n]
    top_mem = sorted(procs, key=lambda p: p['memory_percent'], reverse=True)[:n]
    return top cpu, top mem
```

```
def update history(cpu, mem, disk):
    """Update historical data"""
   global cpu history, mem history, disk history, timestamps
   now = datetime.now()
    timestamps.append(now.strftime('%H:%M:%S'))
   cpu_history.append(cpu)
   mem history.append(mem)
    disk history.append(disk)
    if len(timestamps) > history length:
       timestamps = timestamps[-history_length:]
       cpu_history = cpu_history[-history_length:]
       mem history = mem history[-history length:]
       disk history = disk history[-history length:]
def generate plot(output file='/var/lib/system monitor/system health.png'):
    """Generate a plot of system metrics"""
   plt.figure(figsize=(12, 8))
    plt.subplot(2, 1, 1)
    plt.plot(timestamps, cpu_history, label='CPU %', marker='o')
    plt.plot(timestamps, mem_history, label='Memory %', marker='s')
    plt.plot(timestamps, disk_history, label='Disk %', marker='^')
   plt.title('System Resource Usage Over Time')
    plt.ylabel('Usage (%)')
    plt.xticks(rotation=45)
   plt.legend()
   plt.grid(True)
    args = parse arguments()
   plt.axhline(y=args.cpu, color='r', linestyle='--', alpha=0.3)
   plt.axhline(y=args.mem, color='g', linestyle='--', alpha=0.3)
    plt.axhline(y=args.disk, color='b', linestyle='--', alpha=0.3)
    top cpu, top mem = get top processes(3)
    process text = "Top CPU Processes:\n"
    for proc in top cpu:
        process text += f"{proc['name']}: {proc['cpu percent']:.1f}%\n"
    process text += "\nTop Memory Processes:\n"
    for proc in top mem:
        process text += f"{proc['name']}: {proc['memory percent']:.1f}%\n"
    plt.subplot(2, 1, 2)
   plt.text(0.1, 0.1, process text, fontfamily='monospace', fontsize=10)
   plt.axis('off')
    plt.tight layout()
   plt.savefig(output file, dpi=100, bbox inches='tight')
   plt.close()
    return output_file
```

```
logger = logging.getLogger()
                 memory = psutil.virtual_memory()
                 disk = psutil.disk usage('/
                 top_cpu, top_mem = get_top_processes()
                update_history(cpu_percent, memory.percent, disk.percent)
plot_file = generate_plot()
print(f"\n--- System Health at {time.strftime('%Y-%m-%d %H:%M:%S')} ---")
                print(f"CPU Usage: {cpu_percent}% ({cpu_count} cores)")
print(f"Memory: {memory.percent}% used ({memory.used/1024/1024:.2f} MB / {memory.total/1024/1024:.2f} MB)")
                print(f"Disk: {disk.percent}% used ({disk.used/1024/1024:.2f} MB / {disk.total/1024/1024:.2f} MB)")
print(f"Network: Sent {net_io.bytes_sent/1024/1024:.2f} MB | Received {net_io.bytes_recv/1024/1024:.2f} MB")
print(f"Status plot saved to: {plot_file}")
print("\nTop CPU processes:")
                print(f" {proc('name')} (PID:{proc('pid')}): {proc('cpu_percent'):.1f}% CPU")
print("\nTop Memory processes:")
                 if cpu_percent > cpu_threshold:
                       msg = f"CPU usage exceeded threshold: {cpu_percent}% > {cpu_threshold}%"
                       logger.warning(msg)
                if memory.percent > mem threshold:
    msg = f"Memory usage exceeded threshold: {memory.percent}% > {mem threshold}%"
                       logger.warning(msg)
                       print(f"\nWARNING: {msg}")
                       msg = f"Disk usage exceeded threshold: {disk.percent}% > {disk_threshold}%"
                       logger.warning(msg)
                      print(f"\nWARNING: {msg}")
                 print(f"ERROR: {str(e)}")
                 time.sleep(interval)
except Exception as e:
   logger.critical(f"Unexpected error: {str(e)}")
   print(f"CRITICAL ERROR: {str(e)}")
```

```
def parse arguments():
   parser = argparse.ArgumentParser(description='System Health Monitor with Threshold Alerts')
  parser.add_argument('--cpu', type=float, default=80.0,
| help='CPU usage threshold percentage (default: 80)')
  return parser.parse args()
def main():
   args = parse_arguments()
   setup_logging()
   print(f"Starting system monitor with thresholds - CPU: {args.cpu}%, Memory: {args.mem}%, Disk: {args.disk}%")
   print(f"Monitoring interval: {args.interval} seconds")
   print(f"Showing top {args.top} processes by CPU/Memory usage")
   print("Press Ctrl+C to stop monitoring\n")
   generate_plot()
   monitor_system(args.cpu, args.mem, args.disk, args.interval)
   name == " main ":
   main()
```

Then, I created a systemd service unit file named *system_health_monitor.service* to run the Python script as a background service, enabling automatic execution on system boot:

```
erfan@erfan-virtual-machine:~/Desktop$ sudo nano /etc/systemd/system/system_health_monitor.service
  GNU nano 4.8
                                                          /etc/systemd/system/system health monitor.service
Description=System Health Monitoring Service
After=network.target
StartLimitIntervaĺSec=0
Service1
Type=simple
User=root
ExecStart=/usr/bin/python3 /home/erfan/Desktop/system_health_P3.py --cpu 80 --mem 85 --disk 80 --interval 60
Restart=always
estartSec=5
StandardOutput=journal
StandardError=journal
Environment=PYTHONUNBUFFERED=1
ExecStartPre=/bin/bash -c 'echo "" > /var/log/system_monitor.log'
ExecStartPre=/bin/mkdir -p /var/lib/system_monitor
ExecStartPre=/bin/chmod 777 /var/lib/system_monitor
Environment="PYTHONUNBUFFERED=1"
Environment="DISPLAY=:0"
Environment="XAUTHORITY=/home/erfan/.Xauthority"
NoNewPrivileges=true
PrivateTmp=true
Install1
WantedBy=multi-user.target
```

After that, I executed the following commands to enable the service to run automatically at system startup:

```
erfan@erfan-virtual-machine:~/Desktop$ sudo systemctl daemon-reload
erfan@erfan-virtual-machine:~/Desktop$ sudo systemctl start system_health_monitor
```

The system status becomes visible when executing the following command:

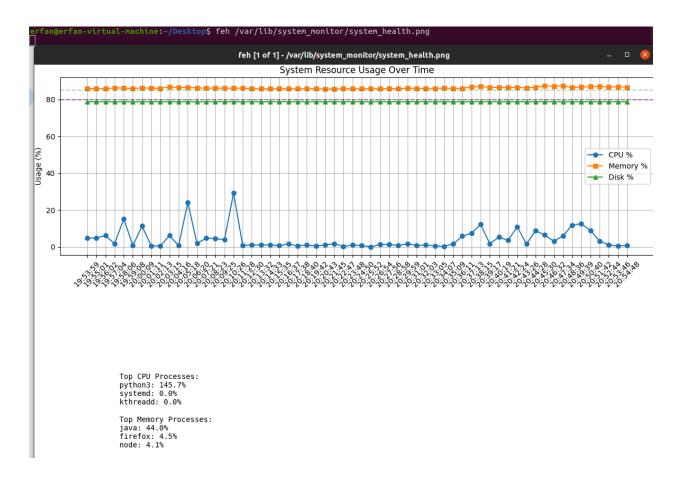
Here is the sample output when executing the Python script independently (outside of the systemd service):

```
erfan@erfan-virtual-machine:~/Desktop$ sudo python3 /home/erfan/Desktop/system_health_P3.py
Starting system monitor with thresholds - CPU: 80.0%, Memory: 80.0%, Disk: 80.0%
Monitoring interval: 5 seconds
Showing top 3 processes by CPU/Memory usage
Press Ctrl+C to stop monitoring
--- System Health at 2025-04-12 20:44:09 ---
CPU Usage: 0.7% (4 cores)
Memory: 86.5% used (10845.84 MB / 13178.01 MB)
Disk: 78.8% used (28.83 GB / 38.58 GB)
Network: Sent 846.58 MB | Received 1124.57 MB
Status plot saved to: /var/lib/system_monitor/system_health.png
Top CPU processes:
 python3 (PID:31148): 52.6% CPU
  java (PID:2181): 2.1% CPU
  node (PID:1171): 1.4% CPU
Top Memory processes:
 java (PID:2181): 44.0% Memory
  firefox (PID:3296): 4.5% Memory
 node (PID:1171): 4.1% Memory
2025-04-12 20:44:10,005 - WARNING - Memory usage exceeded threshold: 86.5% > 80.0%
WARNING: Memory usage exceeded threshold: 86.5% > 80.0%
--- System Health at 2025-04-12 20:44:16 ---
CPU Usage: 3.2% (4 cores)
Memory: 86.5% used (10860.43 MB / 13178.01 MB)
Disk: 78.8% used (28.83 GB / 38.58 GB)
Network: Sent 846.72 MB | Received 1124.71 MB
Status plot saved to: /var/lib/system_monitor/system_health.png
Top CPU processes:
 python3 (PID:31148): 10.6% CPU
  firefox (PID:3296): 8.3% CPU
  java (PID:2181): 6.4% CPU
Top Memory processes:
 java (PID:2181): 44.0% Memory
  firefox (PID:3296): 4.4% Memory
 node (PID:1171): 4.1% Memory
2025-04-12 20:44:16,535 - WARNING - Memory usage exceeded threshold: 86.5% > 80.0%
WARNING: Memory usage exceeded threshold: 86.5% > 80.0%
```

Here is the warning log file that records system alerts. Note that this file is temporary and gets cleared during system reboots:

```
erfan@erfan-virtual-machine:~/Desktop$ cat /var/log/system monitor.log
2025-04-12 18:52:25,023 - WARNING - Memory usage exceeded threshold: 85.5% > 85.0%
2025-04-12 18:53:26,369 - WARNING - Memory usage exceeded threshold: 85.7% > 85.0%
2025-04-12 18:54:27,763 - WARNING - Memory usage exceeded threshold: 85.8% > 85.0%
2025-04-12 18:55:29,148 - WARNING - Memory usage exceeded threshold: 85.8% > 85.0%
2025-04-12 18:56:30,558 - WARNING - Memory usage exceeded threshold: 85.8% > 85.0%
2025-04-12 18:57:31,961 - WARNING - Memory usage exceeded threshold: 85.8% > 85.0%
2025-04-12 18:58:33,356 - WARNING - Memory usage exceeded threshold: 85.8% > 85.0%
2025-04-12 18:59:34,791 - WARNING - Memory usage exceeded threshold: 85.6% > 85.0%
2025-04-12 19:00:36,250 - WARNING - Memory usage exceeded threshold: 85.7% > 85.0%
2025-04-12 19:01:37,698 - WARNING - Memory usage exceeded threshold: 85.8% > 85.0%
2025-04-12 19:02:39,116 - WARNING - Memory usage exceeded threshold: 85.8% > 85.0%
2025-04-12 19:03:40,564 - WARNING - Memory usage exceeded threshold: 85.8% > 85.0%
2025-04-12 19:04:41,993 - WARNING - Memory usage exceeded threshold: 85.8% > 85.0%
2025-04-12 19:05:43,458 - WARNING - Memory usage exceeded threshold: 85.7% > 85.0%
2025-04-12 19:09:49,285 - WARNING - Memory usage exceeded threshold: 85.3% > 85.0%
2025-04-12 19:10:50,884 - WARNING - Memory usage exceeded threshold: 85.4% > 85.0%
2025-04-12 19:11:52,398 - WARNING - Memory usage exceeded threshold: 85.4% > 85.0%
2025-04-12 19:12:53,928 - WARNING - Memory usage exceeded threshold: 85.7% > 85.0%
2025-04-12 19:13:55,432 - WARNING - Memory usage exceeded threshold: 85.7% > 85.0%
2025-04-12 19:14:56,966 - WARNING - Memory usage exceeded threshold: 86.0% > 85.0%
2025-04-12 19:15:58,552 - WARNING - Memory usage exceeded threshold: 85.8% > 85.0%
2025-04-12 19:17:00,059 - WARNING - Memory usage exceeded threshold: 85.6% > 85.0%
2025-04-12 19:18:01,595 - WARNING - Memory usage exceeded threshold: 86.0% > 85.0%
2025-04-12 19:19:03,076 - WARNING - Memory usage exceeded threshold: 86.0% > 85.0%
2025-04-12 19:20:04,785 - WARNING - Memory usage exceeded threshold: 86.1% > 85.0%
2025-04-12 19:21:06,403 - WARNING - Memory usage exceeded threshold: 86.0% > 85.0%
2025-04-12 19:22:07,975 - WARNING - Memory usage exceeded threshold: 86.0% > 85.0%
2025-04-12 19:23:09,547 - WARNING - Memory usage exceeded threshold: 86.0% > 85.0%
2025-04-12 19:24:11,136 - WARNING - Memory usage exceeded threshold: 86.0% > 85.0%
2025-04-12 19:25:12,725 - WARNING - Memory usage exceeded threshold: 85.8% > 85.0%
2025-04-12 19:26:14,347 - WARNING - Memory usage exceeded threshold: 86.0% > 85.0%
2025-04-12 19:27:16,049 - WARNING - Memory usage exceeded threshold: 85.8% > 85.0%
2025-04-12 19:28:17,632 - WARNING - Memory usage exceeded threshold: 85.7% > 85.0%
2025-04-12 19:29:19,253 - WARNING - Memory usage exceeded threshold: 85.7% > 85.0%
2025-04-12 19:30:20,838 - WARNING - Memory usage exceeded threshold: 85.6% > 85.0%
2025-04-12 19:31:22,411 - WARNING - Memory usage exceeded threshold: 85.6% > 85.0%
2025-04-12 19:32:24,044 - WARNING - Memory usage exceeded threshold: 85.6% > 85.0%
2025-04-12 19:33:25,731 - WARNING - Memory usage exceeded threshold: 85.9% > 85.0%
2025-04-12 19:34:27,404 - WARNING - Memory usage exceeded threshold: 85.9% > 85.0%
2025-04-12 19:35:29,097 - WARNING - Memory usage exceeded threshold: 86.0% > 85.0%
2025-04-12 19:36:30,745 - WARNING - Memory usage exceeded threshold: 86.0% > 85.0%
2025-04-12 19:37:32,418 - WARNING - Memory usage exceeded threshold: 86.0% > 85.0%
2025-04-12 19:38:34,061 - WARNING - Memory usage exceeded threshold: 85.5% > 85.0%
2025-04-12 19:39:35,725 - WARNING - Memory usage exceeded threshold: 85.4% > 85.0%
2025-04-12 19:40:37,421 - WARNING - Memory usage exceeded threshold: 85.4% > 85.0%
2025-04-12 19:41:39,085 - WARNING - Memory usage exceeded threshold: 85.4% > 85.0%
2025-04-12 19:42:40,761 - WARNING - Memory usage exceeded threshold: 85.4% > 85.0%
2025-04-12 19:43:42,467 - WARNING - Memory usage exceeded threshold: 85.4% > 85.0%
2025-04-12 19:44:44,201 - WARNING - Memory usage exceeded threshold: 85.4% > 85.0%
2025-04-12 19:45:45,859 - WARNING - Memory usage exceeded threshold: 85.8% > 85.0%
2025-04-12 19:46:47,559 - WARNING - Memory usage exceeded threshold: 85.8% > 85.0%
2025-04-12 19:47:49,317 - WARNING - Memory usage exceeded threshold: 85.9% > 85.0%
```

Below is the system status plot showing performance metrics over time:



Now this is the edited format of the Python file named cluster system health monitor.py that:

- 1. Connects to the course's cluster via SSH
- 2. Monitors the server's status
- 3. Saves warnings in the log file
- 4. Displays the system status in a plot

```
import paramiko
import getpass
import sys
import socket
import termios
import select
import time
import logging
from pathlib import Path
import matplotlib.pyplot as plt
from datetime import datetime
import matplotlib
import threading
import argparse
import io
matplotlib.use('Agg')
history_length = 60
cpu_history = []
mem_history = []
disk_history = []
timestamps = []
monitoring_active = False
ssh_client = None
last metrics = None
last warnings = []
def setup_logging(log_file='/var/log/remote_system_monitor.log'):
    logger = logging.getLogger()
    logger.setLevel(logging.WARNING)
    for handler in logger.handlers[:]:
        logger.removeHandler(handler)
        Path(log_file).parent.mkdir(parents=True, exist_ok=True, mode=0o755)
        file_handler = logging.FileHandler(log_file)
        file_handler.setFormatter(logging.Formatter(
        logger.addHandler(file_handler)
        logger.addHandler(logging.NullHandler())
def execute_remote_command(command):
    global ssh client
    stdin, stdout, stderr = ssh_client.exec_command(command)
    return stdout.read().decode().strip()
```

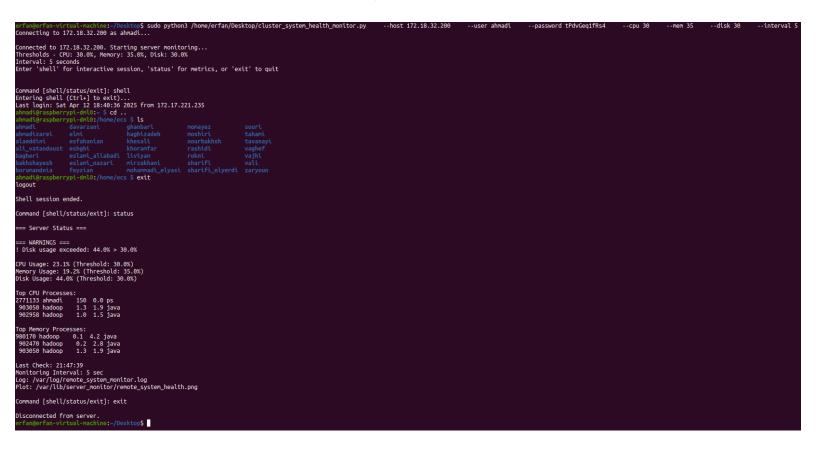
```
def get_server_metrics():
         cpu_percent = float(execute_remote_command(
         mem_info = execute_remote_command(
              "free | grep Mem | awk '{print $3/$2 * 100.0}'"
         mem_percent = float(mem_info)
         disk_percent = float(execute_remote_command(
         top cpu = execute remote command(
         top_mem = execute_remote_command(
             'cpu': cpu_percent,
             'memory': mem_percent,
'disk': disk_percent,
              'top_cpu': top_cpu,
             'top mem': top mem,
             'timestamp': datetime.now().strftime('%H:%M:%S')
def update history(metrics):
       "Update historical data"""
    global cpu history, mem history, disk history, timestamps, last metrics, last warnings
    if metrics:
        last metrics = metrics
         timestamps.append(metrics['timestamp'])
        cpu history.append(metrics['cpu'])
mem history.append(metrics['memory'])
disk_history.append(metrics['disk'])
         if len(timestamps) > history_length:
    timestamps = timestamps[-history_length:]
             cpu history = cpu history[-history_length:]
mem history = mem history[-history_length:]
             disk history = disk history[-history length:]
"""Generate plot of server metrics"
    plt.figure(figsize=(12, 8))
    plt.subplot(2, 1, 1)
    plt.plot(timestamps, cpu_history, label='CPU %', marker='o')
plt.plot(timestamps, mem_history, label='Memory %', marker='s')
plt.plot(timestamps, disk_history, label='Disk %', marker='^')
    plt.title('Server Resource Usage Over Time')
    plt.ylabel('Usage (%)')
plt.xticks(rotation=45)
    plt.legend()
    plt.grid(True)
    plt.tight_layout()
    plt.savefig(output_file, dpi=100, bbox_inches='tight')
    plt.close()
    return output_file
```

```
monitor_server(cpu_thresh=80, mem_thresh=85, disk_thresh=80, interval=60):
     global monitoring_active, last_warnings
    logger = logging.getLogger()
while monitoring_active:
              if metrics:
                  update_history(metrics)
generate_plot(cpu_thresh=cpu_thresh, mem_thresh=mem_thresh, disk_thresh=disk_thresh)
                   last warnings.clear()
                   if metrics['cpu'] > cpu_thresh:
                       warning = f"CPU usage exceeded: {metrics['cpu']}% > {cpu_thresh}%"
last_warnings.append(warning)
                        logger.warning(warning)
                   if metrics['memory'] > mem_thresh:
   warning = f"Memory usage exceeded: {metrics['memory']}% > {mem_thresh}%"
                        last_warnings.append(warning)
                        logger.warning(warning)
                   if metrics['disk'] > disk_thresh:
   warning = f"Disk usage exceeded: {metrics['disk']}% > {disk_thresh}%"
   last_warnings.append(warning)
                       logger.warning(warning)
              time.sleep(interval)
              logger.error(f"Monitoring error: {str(e)}")
def print_status(args):
    ""<sup>P</sup>Print current server status and show any warnings""
global last_metrics, last_warnings
     if not last metrics:
         print("No metrics available vet")
    print("\n=== Server Status ===")
     if last warnings:
print("\n=== WARNINGS ===")
         for warning in last_warnings:
    print(f"Monitoring Interval: {args.interval} sec
print(f"Log file: {args.log}")
print(f"Plot file: {args.plot}")
              r, w, e = select.select([channel, sys.stdin], [], [])
                       sys.stdout.write(data.decode())
sys.stdout.flush()
              if sys.stdin in r:
                  char = sys.stdin.read(1)
if char == '\xld':
                   channel.send(char)
         termios.tcsetattr(sys.stdin, termios.TCSADRAIN, old_attrs)
```

```
parse_arguments():
    """Parse command line arguments"""
parser = arguarse.ArgumentParser(description='Server Health Monitor via SSH')
parser.add_argument('--host', required=True, help='SSH username')
parser.add_argument('--user', required=True, help='SSH username')
parser.add_argument('--password', help='SSH password (optional if using keys)')
parser.add_argument('--cpu', type=float, default=80.0, help='CPU threshold %')
parser.add_argument('--mem', type=float, default=85.0, help='Memory threshold %')
parser.add_argument('--disk', type=float, default=80.0, help='Disk threshold %')
parser.add_argument('--interval', type=int, default=60, help='CPU threshold %')
parser.add_argument('--log', default='/var/log/remote_system monitor.log', help='Log file path')
parser.add_argument('--plot', default='/var/lib/server_monitor/remote_system_health.png', help='Plot file path')
return parser.parse args()
           return parser.parse args()
def main():
    global monitoring_active, ssh_client
           args = parse_arguments()
setup logging(args.log)
           Path(args.rbot).parent.mkdir(parents=True, exist_ok=True)
ssh_client = paramiko.SSHClient()
ssh_client.set_missing_host_key_policy(paramiko.AutoAddPolicy())
                     print(f"Connecting to {args.host} as {args.user}...")
ssh client.connect(
                                hostname=args.host,
                                username=args.user,
password=args.password,
                                look for keys=True if not args.password else False,
timeout=10
                    print(f"\nConnected to {args.host}. Starting server monitoring...")
print(f"Thresholds - CPU: {args.cpu}%, Memory: {args.mem}%, Disk: {args.disk}%")
print(f"Interval: {args.interval} seconds")
print("Enter 'shell' for interactive session, 'status' for metrics, or 'exit' to quit\n")
monitoring_active = True
monitor_thread = threading.Thread(
    target=monitor_server,
                                 kwargs={
    'cpu_thresh': args.cpu,
    'mem thresh': args.mem,
    'disk_thresh': args.disk,
    'interval': args.interval
                                 daemon=True
                     monitor_thread.start()
while True:
                                 cmd = input("\nCommand [shell/status/exit]: ").strip().lower()
                                 if cmd == "shell'
                                           channel = ssh_client.invoke_shell(term='xterm-256color')
channel.settimeout(1)
print("Entering shell (Ctrl+] to exit)...")
interactive_shell(channel)
                                 elif cmd == "status":
    print_status(args)
elif cmd == "exit":
         print("Invalid command. Please enter 'shell', 'status', or 'exit'")
except Exception as e:
    print(f"\nError: {str(e)}")
finally:
    mondate
                     monitoring_active = False
if 'monitor_thread' in locals():
    monitor_thread.join(timeout=1)
                     ssh_client.close()
print("\nDisconnected from server.")
         __name__ == "__main__":
__main()
```

This is how I run the program:

- 1. I provide thresholds, server information, and time interval as arguments
- 2. After running:
 - If I execute shell, it connects to the server terminal (exit with exit command)
 - o If I run status, it displays the status from the last interval



```
virtual-machine:~/Desktop$ cat /var/log/remote_system_monitor.log
2025-04-12 17:37:58,856 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:39:38,874 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:39:44,658 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:39:50,571 - WARNING - CPU usage exceeded: 31.2% > 30.0%
Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:39:56,462 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:40:02,276 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:40:08,131 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:40:14,044 - WARNING - CPU usage exceeded: 33.3% > 30.0%
Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:40:19,891 - WARNING - CPU usage exceeded: 33.3% > 30.0%
Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:40:25,980 - WARNING - CPU usage exceeded: 57.2% > 30.0%
Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:40:31,988 - WARNING - CPU usage exceeded: 42.9% > 30.0%
Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:40:37,955 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:40:43,924 - WARNING - CPU usage exceeded: 30.8% > 30.0%
Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:40:49,982 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:40:56,057 - WARNING - CPU usage exceeded: 30.8% > 30.0%
Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:41:02,038 - WARNING - CPU usage exceeded: 50.0% > 30.0%
Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:41:08,088 - WARNING - CPU usage exceeded: 50.0% > 30.0%
Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:41:14,068 - WARNING - CPU usage exceeded: 50.0% > 30.0%
Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:41:20,027 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:41:26,112 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:41:32,326 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:41:38,523 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:41:44,719 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:41:51,005 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:41:57,040 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:42:03,266 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:42:09,479 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:42:16,176 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 17:42:22,290 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 18:29:55,696 - WARNING - CPU usage exceeded: 37.5% > 30.0%
2025-04-12 18:29:55,702 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 18:30:01,536 - WARNING - CPU usage exceeded: 31.3% > 30.0%
2025-04-12 18:30:01,537 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 18:30:07,414 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 18:30:13,239 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 22:12:02,479 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 22:12:08,356 - WARNING - CPU usage exceeded: 33.4% > 30.0%
2025-04-12 22:12:08,356 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 22:12:14,197 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 22:12:20,167 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 22:12:26,181 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 22:12:32,047 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 22:12:37,897 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 22:12:43,935 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 22:12:49,983 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-12 22:12:56,029 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-13 09:56:22,007 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-13 09:56:27,940 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-13 09:56:33,952 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-13 09:56:39,927 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-13 09:56:45,998 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-13 09:56:51,981 - WARNING - CPU usage exceeded: 30.8% > 30.0%
2025-04-13 09:56:51,981 - WARNING - Disk usage exceeded: 44.0% > 30.0%
2025-04-13 09:56:57,917 - WARNING - CPU usage exceeded: 30.8% > 30.0%
2025-04-13 09:56:57,918 - WARNING - Dis<u>k</u> usage exceeded: 44.0% > 30.0%
```

