```
import psutil
import subprocess
import smtplib
from email.mime.multipart import MIMEMultipart
from email.mime.text import MIMEText
def check disk space and send alert():
  def check disk space():
    command = "df -h | awk '$6 == \"\\" {print $5}\"
    result = subprocess.run(command, shell=True, stdout=subprocess.PIPE,
stderr=subprocess.PIPE)
    output = result.stdout.decode().strip()
    return output
  def get system ip():
    result = subprocess.run(['hostname', '-I'], stdout=subprocess.PIPE,
stderr=subprocess.PIPE)
    output = result.stdout.decode().strip()
    return output
  usage percentage = check disk space()
  if int(usage percentage[:-1]) >= 50:
    send disk space alert email(usage percentage, get system ip())
def check cpu usage and send alert():
  cpu_usage = psutil.cpu_percent(interval=1)
  if cpu usage >= 80:
    send_cpu_usage_alert_email(cpu_usage)
def check_memory_usage_and_send_alert():
  memory usage = psutil.virtual memory().percent
  if memory_usage >= 80:
    send_memory_usage_alert_email(memory_usage)
def send_disk_space_alert_email(usage_percentage, system_ip):
  try:
    mail content = f"
    Hello Ubuy,
    Disk space used: {usage percentage}.
    System IP Address: {system ip}
```

```
Please take appropriate action to free up disk space.
```

```
Thanks & Regards,
    Karan Singh
    AWS Administrator
    sender_address = "karan.singh@ubuy.com"
    sender_password = "iydsaitmtcqieynf"
    receiver address = ['karan.singh@ubuy.com', 'himanshu.sharma@ubuy.com',
'om@ubuy.co.in']
    message = MIMEMultipart()
    message['From'] = sender_address
    message['To'] = ", ".join(receiver_address)
    message['Subject'] = 'Disk Space Alert ubuy-newdomain-web'
    message.attach(MIMEText(mail_content, 'plain'))
    session = smtplib.SMTP('smtp.gmail.com', 587)
    session.starttls()
    session.login(sender address, sender password)
    text = message.as_string()
    session.sendmail(sender address, receiver address, text)
    session.quit()
    print('[+] Disk space alert email has been sent')
  except Exception as e:
    print(e)
def send_cpu_usage_alert_email(cpu_usage):
  try:
    mail_content = f"
    Hello Ubuy,
    CPU usage is high: {cpu usage}%.
    Please investigate and take necessary actions.
    Thanks & Regards,
    Karan Singh
    AWS Administrator
```

```
sender_address = "karan.singh@ubuy.com"
    sender_password = "iydsaitmtcqieynf"
    receiver address = ['karan.singh@ubuy.com', 'himanshu.sharma@ubuy.com',
'om@ubuy.co.in']
    message = MIMEMultipart()
    message['From'] = sender address
    message['To'] = ", ".join(receiver_address)
    message['Subject'] = 'High CPU Usage Alert'
    message.attach(MIMEText(mail content, 'plain'))
    session = smtplib.SMTP('smtp.gmail.com', 587)
    session.starttls()
    session.login(sender_address, sender_password)
    text = message.as_string()
    session.sendmail(sender_address, receiver_address, text)
    session.quit()
    print('[+] CPU usage alert email has been sent')
  except Exception as e:
    print(e)
def send memory usage alert email(memory usage):
  try:
    mail content = f"
    Hello Ubuy,
    Memory usage is high: {memory_usage}%.
    Please investigate and take necessary actions.
    Thanks & Regards,
    Karan Singh
    AWS Administrator
    sender address = "karan.singh@ubuy.com"
    sender_password = "iydsaitmtcqieynf"
    receiver_address = ['karan.singh@ubuy.com', 'himanshu.sharma@ubuy.com',
'om@ubuy.co.in']
    message = MIMEMultipart()
    message['From'] = sender_address
```

```
message['To'] = ", ".join(receiver_address)
    message['Subject'] = 'High Memory Usage Alert'
    message.attach(MIMEText(mail_content, 'plain'))
    session = smtplib.SMTP('smtp.gmail.com', 587)
    session.starttls()
    session.login(sender_address, sender_password)
    text = message.as_string()
    session.sendmail(sender address, receiver address, text)
    session.quit()
    print('[+] Memory usage alert email has been sent')
  except Exception as e:
    print(e)
# Call functions to check health metrics and send alerts
check disk space and send alert()
check_cpu_usage_and_send_alert()
check_memory_usage_and_send_alert()
```