

## **Process Monitor**

Automation script which accepts time interval from user and create log file in th Marvellous directory which contains information of all running processes. After creating the log file send that log file through mail.

```
import os
  import time
  import psutil
  import urllib2
 5 import smtplib
 import schedule
 7 from sys import *
8 from email import encoders
 9 from email.mime.text import MIMEText
10 from email.mime.base import MIMEBase
11 from email.mime.multipart import MIMEMultipart
13 def is_connected():
        urllib2.urlopen('http://216.58.192.142', timeout=1)
        return True
     except urllib2.URLError as err:
        return False
19
20 def MailSender(filename,time):
21
        fromaddr = "marvellousinfosystem@gmail.com"
23
        toaddr = "piyushkhairnar@ymail.com
        msg = MIMEMultipart()
        msg['From'] = fromaddr
        msg['To'] = toaddr
        body = """
        Hello %s,
        Welcome to Marvellous Infosystems.
        Please find attached ducument which contains Log of Running process.
        Log file is created at : %s
        This is auto gennerated mail.
        Thanks & Regards,
        Piyush Manohar Khairnar
        Marvellous Infosystems
           """ %(toaddr, time)
        Subject = """
        Marvellous Infosytems Process log generated at : %s
          ""%(time)
        msg['Subject'] = Subject
50
51
52
53
        msg.attach(MIMEText(body, 'plain'))
        attachment = open(filename, "rb")
        p = MIMEBase('application', 'octet-stream')
        p.set_payload((attachment).read())
        encoders.encode_base64(p)
61
        p.add_header('Content-Disposition', "attachment; filename= %s" % filename)
```

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```
s.starttls()
      s.login(fromaddr, "----")
      text = msg.as_string()
      s.sendmail(fromaddr, toaddr, text)
      print("Log file successfully sent through Mail")
   except Exception as E:
      print ("Unable to send mail.",E)
def ProcessLog(log_dir = 'Marvellous'):
   listprocess = []
   if not os.path.exists(log_dir):
         os.mkdir(log_dir)
      except:
         pass
   separator = "-" * 80
   log_path = os.path.join(log_dir, "MarvellousLog%s.log" %(time.ctime()))
   f = open(log_path, 'w')
f.write(separator + "\n")
f.write("Marvellous Infosystems Process Logger : "+time.ctime() + "\n")
   f.write(separator + "\n")
   f.write("\n")
   for proc in psutil.process_iter():
         pinfo = proc.as_dict(attrs=['pid', 'name', 'username'])
vms = proc.memory_info().vms / (1024 * 1024)
         pinfo['vms'] = vms
         listprocess.append(pinfo);
      except (psutil.NoSuchProcess, psutil.AccessDenied, psutil.ZombieProcess):
         pass
   for element in listprocess:
    f.write("%s\n" % element)
   print("Log file is successfully generated at location %s",%(log_path))
   connected = is_connected()
   if connected:
      startTime = time.time()
     MailSender(log_path,time.ctime())
endTime = time.time()
     print('Took %s seconds to send mail ' % (endTime - startTime))
   else:
        print("There is no internet connection")
def main():
  print("---- Marvellous Infosystems by Piyush Khairnar----")
   print("Application name : " +argv[0])
  if (len(argv) != 2):
      print("Error: Invalid number of arguments")
   if (argv[1] == "-h") or (argv[1] == "-H"):
     print("This Script is used log record of running processess")
exit()
  if (argv[1] == "-u") or (argv[1] == "-U"):
    print("usage : ApplicationName AbsolutePath_of_Directory")
         schedule.every(int(argv[1])).minutes.do(ProcessLog)
           schedule.run_pending()
           time.sleep(1)
   except ValueError:
     print("Error: Invalid datatype of input")
   except Exception as E:
     print("Error : Invalid input",E)
   _name__ == "__main__":
```

आही Technical संस्कार करतो !!!

main()