

Script

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#!/usr/bin/env python3

from netmiko import ConnectHandler

import csv

import sys

devices_file = sys.argv[1] if len(sys.argv) > 1 else 'devices_list.txt'

def read_devices(path):

    devs = []

    with open(path) as f:

        for line in f:

            if line.strip() and not line.startswith('#'):

                host,ip,username,password,device_type = line.strip().split(',')

                devs.append({

                    'host': host,

                    'ip': ip,

                    'username': username,

                    'password': password,

                    'device_type': device_type

                })

    return devs

def get_interfaces(dev):

    conn = ConnectHandler(host=dev['ip'], username=dev['username'],

                          password=dev['password'], device_type=dev['device_type'])

    output = conn.send_command('show interfaces status')

    conn.disconnect()

    return output
```

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def parse_and_write(dev, output):

    # simple CSV write, adapt parsing per vendor

    with open(f"{dev['host']}_interfaces.csv","w",newline=") as csvfile:

        writer = csv.writer(csvfile)

        writer.writerow(['raw_output'])

        writer.writerow([output])

if __name__ == '__main__':

    devices = read_devices(devices_file)

    for d in devices:

        out = get_interfaces(d)

        parse_and_write(d,out)

```

What does it do?

Step-by-step:

1. Reads a device list file (default: devices_list.txt) whose lines must be:

name,ip,username,password,device_type
2. For each device it:
 - Establishes an SSH/console connection using Netmiko (ConnectHandler) with the provided IP, credentials and device_type.
 - Runs the command show interfaces status on the device.
 - Closes the connection.
 - Writes the raw command output into a CSV file named <device_name>_interfaces.csv with a single column header "raw_output" and the output as the next row.

Where do I run it?

Run on any machine with:

- Python 3 installed,
- Netmiko (and its dependencies) installed (pip install netmiko)