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Automating MobaXterm Networking

Is it possible to make a script in windows with python code to automate the following actions,

1. Connect to NIS using MobaXterm software, specified NE name, port 22, username, & password.
2. Execute this command in each NE "Display version",
3. Save the logs

Yes, it is possible to automate these actions in Windows using Python. To connect to the network elements using MobaXterm, you can use a library such as Paramiko that provides an implementation of the SSH2 protocol. To execute the command "Display version", you can use Paramiko's exec_command method and to save the logs you can write the output of the command to a file. Here is an example code to get you started:

python

Copy code

```
import paramiko

# Connect to the network element
ssh = paramiko.SSHClient()
ssh.set_missing_host_key_policy(paramiko.AutoAddPolicy())
ssh.connect('hostname', port=22, username='username', password='password')

# Execute the command
stdin, stdout, stderr = ssh.exec_command('display version')

# Save the logs
with open('logs.txt', 'w') as f:
    f.write(stdout.read().decode())

# Close the connection
ssh.close()
```

How to make it for multiple NE, read from NISlist.txt for the NIS detail, then output different files according to it hostname?

You can modify the code to read the list of network elements from a text file "NISlist.txt" and create a separate log file for each network element based on its hostname. Here is an example code:

python

Copy code

```
import paramiko

# Read the list of network elements from the text file
with open('NISlist.txt', 'r') as f:
    lines = f.readlines()

# Connect to each network element
for line in lines:
    hostname, port, username, password = line.strip().split(',')
    port = int(port)

    ssh = paramiko.SSHClient()
    ssh.set_missing_host_key_policy(paramiko.AutoAddPolicy())
    ssh.connect(hostname, port=port, username=username, password=password)

    # Execute the command
    stdin, stdout, stderr = ssh.exec_command('display version')

    # Save the logs to a separate file based on the hostname
    with open(f'{hostname}_logs.txt', 'w') as f:
        f.write(stdout.read().decode())

    # Close the connection
    ssh.close()
```

In this example, "NISlist.txt" should contain one line for each network element, with the details separated by a comma (e.g. "hostname,22,username,password").

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