

FLUX Test

Before installing **Medulla**, it is **essential** to verify the communication between:

- Your **Medulla server**,
- Your **relay** (if applicable),
- Your **client machines**.

To do this, we provide a **testing procedure that** includes dedicated scripts. **All data flows must be successfully validated** to ensure a smooth deployment and optimal operation of Medulla.

Please feel free to contact us for any assistance or clarification regarding these tests.

The scripts are available for download here:

https://dl.medulla-tech.io/nc/listen_ports_debian.sh

https://dl.medulla-tech.io/nc/listen_ports_windows.ps1

https://dl.medulla-tech.io/nc/medulla_connection_check.sh

https://dl.medulla-tech.io/nc/medulla_relay_connection_check.sh

https://dl.medulla-tech.io/nc/windows_connection_check_signed.ps1

https://dl.medulla-tech.io/nc/check_connection_ldap.sh

https://dl.medulla-tech.io/nc/check_connection_glpi.sh

(Right-click on the links below, then click "**Save link as...**")

Test Prerequisites

Before you begin, make sure you have downloaded the test scripts provided above and prepared the machines:

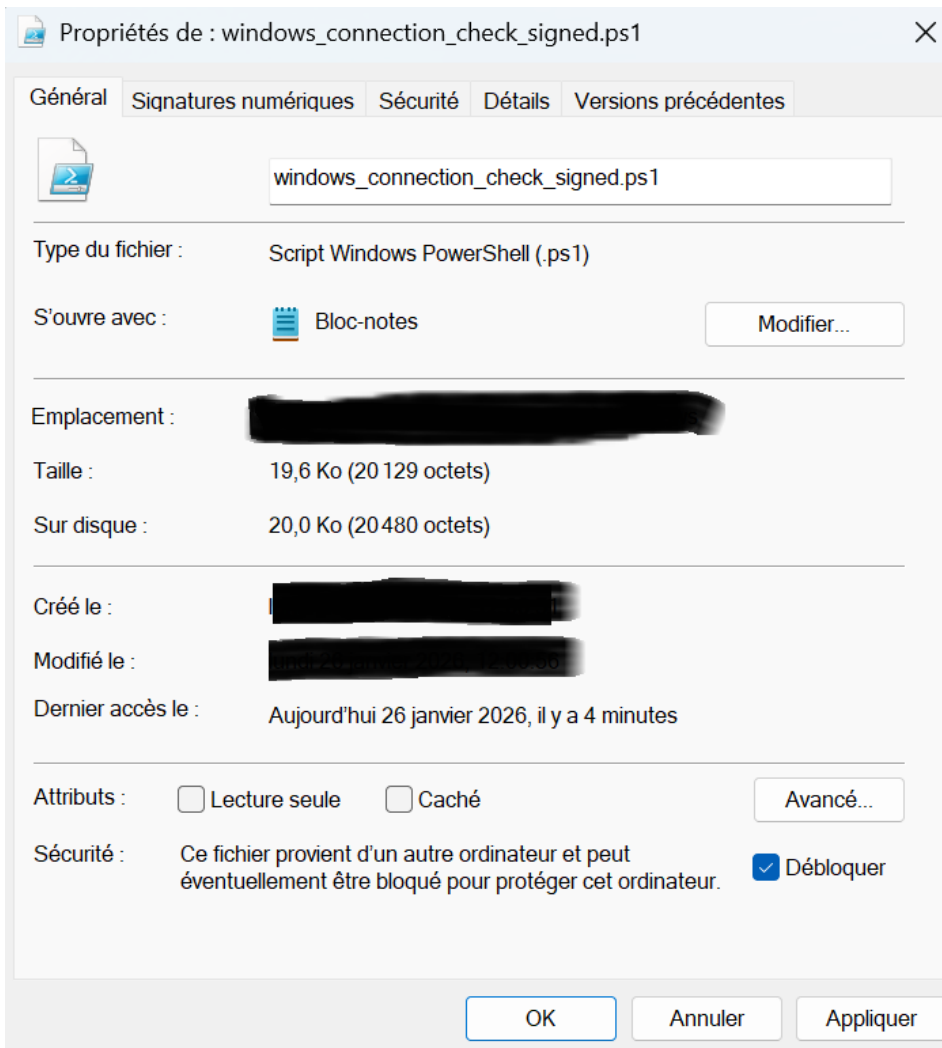
1. On the Linux servers (Medulla & Relai):

- Install the necessary tools: `sudo apt update && sudo apt install netcat-openbsd mariadb-client ldap-utils`
- Make the scripts executable:

```
chmod +x listen_ports_debian.sh medulla_connection_check.sh
medulla_relay_connection_check.sh
dos2unix *.sh # If necessary
```

2. On the Windows client machine with the Medulla agent:

- Right-click on the script, click Properties, check the box to allow the script to run, and confirm.



- Allow PowerShell scripts to run:

```
Set-ExecutionPolicy -Scope CurrentUser -ExecutionPolicy RemoteSigned
```

```
“ # Answer "Yes for all" (Y or T) if prompted
```

For PowerShell v7.5.4:

There is no need to unblock the script. You must run the command shown above.

It will ask if you want to allow the publisher of the script; simply confirm by clicking R or A.

```
PS D:\NATSU\Technique\Support\script\windows> .\windows_connection_check_signed.ps1

Do you want to run software from this untrusted publisher?
File D:\NATSU\Technique\Support\script\windows\windows_connection_check_signed.ps1 is published by CN=NATSU SAS, O=NATSU SAS, L=Paris, C=FR, SERIALNUMBER=933 267 528, OID.2.5.4.15=Private Organization, OID.1.3.6.1.4.1.311.60.2.1.1=Paris, OID.1.3.6.1.4.1.311.60.2.1.2=Île-de-France, OID.1.3.6.1.4.1.311.60.2.1.3=FR and is not trusted on your system. Only run scripts from trusted publishers.
[V] Never run [D] Do not run [R] Run once [A] Always run [?] Help (default is "D"): R
```

1. Test Medulla Server <-> Medulla Relay

Verify communication between the main server and the relay.

Direction: Server to Relay

- **A. On the Relay Server (Destination):** Start listening on the ports. **(Do not perform this step if Medulla is already installed or if you are using SaaS)**

```
./listen_ports_debian.sh -r
```

- **B. On the Medulla Server (Source):** Run the connection test.

```
./medulla_connection_check.sh -r <RELAY_IP>
```

Direction: Relay to Server

- **C. On the Medulla Server (Destination):** Start listening on the ports. **(Do not perform this step if Medulla is already installed or if you are using SaaS)**

```
./listen_ports_debian.sh -m
```

- **D. On the Relay Server (Source):** Run the connection test.

```
./medulla_relay_connection_check.sh -m <MEDULLA_IP>
```

2. Medulla Server <-> Windows Client Test

Verify direct communication between the server and client workstations.

Direction: Server to Client Workstation

- **A. On the Client Workstation (Destination):** Start listening.

```
.\listen_ports_windows.ps1
```

- **B. On the Medulla Server (Source):** Run the test to the client's IP address.

```
./medulla_connection_check.sh -c client.example.com
```

Direction: Client Workstation to Server

- **C. On the Medulla Server (Destination):** Start listening. **(Do not perform this step if Medulla is already installed or if you are using SaaS)**

```
./listen_ports_debian.sh -m
```

- **D. On the Client Workstation (Source):** Run the test to the server's IP address.

```
.\windows_connection_check_signed.ps1 -Target <SERVER_IP> -Mode pulse
```

A log file has been created (in the location where you are running the script) that summarizes several tests, named: **LOG_Test_Flux.txt**

“ If you encounter permission errors when creating the log file, try placing the scripts in the user's Downloads folder, or grant the **windows_connection_check.ps1** script permission to create a file in the same location.

3. Medulla Relay <-> Windows Client Workstation Test

Only if the workstations need to communicate via a relay.

Direction: Relay to Client Workstation

- **A. On the Client Workstation (Destination):** Start listening.

```
.\listen_ports_windows.ps1
```

- **B. On the Relay Server (Source):** Run the test to the workstation's IP address.

```
./medulla_relay_connection_check.sh -c client.example.com
```

Direction: Client Workstation to Relay

- **C. On the Relay Server (Destination):** Start listening. **(Do not perform this step if Medulla is already installed or if you are using SaaS)**

```
./listen_ports_debian.sh -r
```

- **D. On the Client Workstation (Source):** Run the test to the relay's IP address.

```
.\windows_connection_check_signed.ps1 -Target <RELAY_IP> -Mode relay
```

A log file has been created (in the location where you are running the script) that summarizes several tests, named: **LOG_Test_Flux.txt**

“ If you encounter permission errors after creating the log file, try placing the scripts in the user’s Downloads folder, or grant the **windows_connection_check.ps1** script permission to create a file in the same location.

4. Medulla Relay DMZ <-> Windows Mobile Client Test

Verification of direct communication between the server and client workstations.

(Mobile clients can only be reached on ports 5222 and 22)

Direction: Client Workstation to Server

- **A. On the Medulla DMZ Server (Destination):** Start listening. **(Do not perform this step if Medulla is already installed or if you are using SaaS)**

```
./listen_ports_debian.sh -r
```

- **B. On the Mobile Client (Source):** Run the test to the server’s IP address.

```
.\windows_connection_check_signed.ps1 -Target <SERVER_IP> -Mode relay
```

5. Test server destined for Medulla -> Your GLPI server

Verify direct communication between the server and your GLPI server.

(Requires the mariadb-client package: apt install mariadb-client)

- **A. On the Medulla server:** Run the test against the external GLPI database.

```
./check_connection_glpi.sh DB_FQDN DB_USERNAME DB_PASSWORD DB_NAME_GLPI
```

6. Server Test for Medulla -> Your LDAP Server

Verify direct communication between the server and your LDAP server.

(Requires the ldap-utils package: *apt install ldap-utils*)

- **A. On the Medulla server:** Run the test against the external LDAP server.

```
./check_connection_ldap.sh HOST PORT 'BIND_DN' 'PASSWORD' 'BASE_DN'
```

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