

INSTITUTO FEDERAL DE GOIÁS - CÂMPUS FORMOSA

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SERVIDOR DE IMPRESSÃO (CUPS)

Formosa

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O que é o CUPS ?

O Common Unix Printing System , também conhecido como CUPS , é um sistema desenvolvido para Unix e OS X da Apple que permite que um computador atue como um servidor de impressão. Um computador executando o CUPS pode aceitar trabalhos de impressão de outros computadores e encaminhá-los para impressoras locais e de rede usando o Internet Printing Protocol, ou IPP. O serviço roda na porta 631.

Configurando CUPS

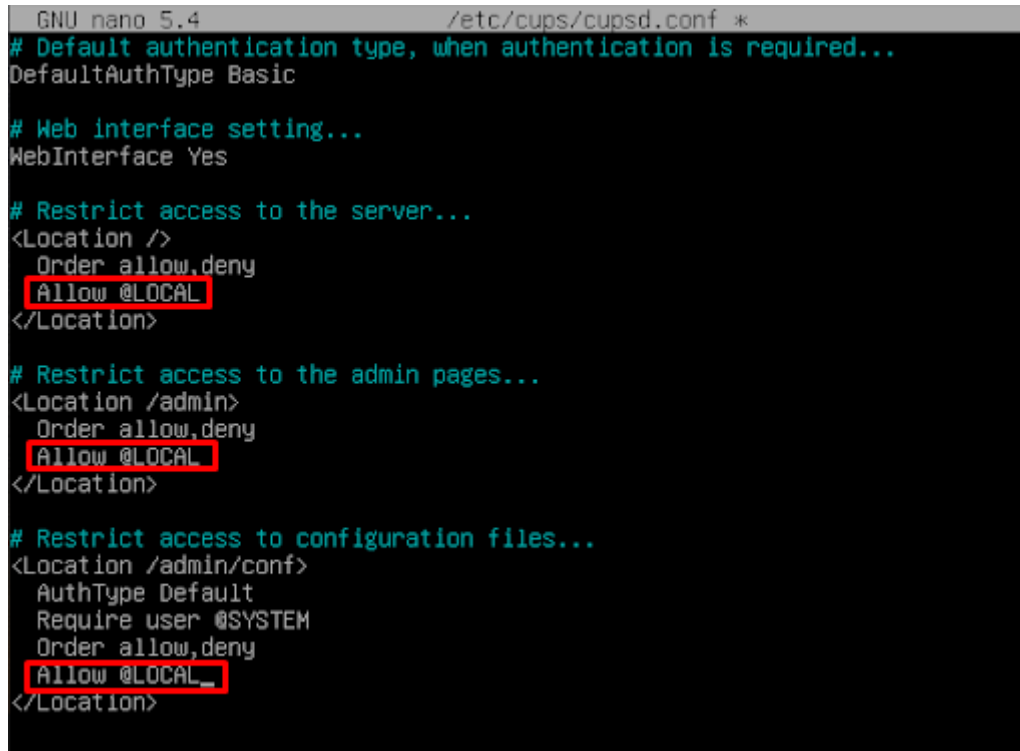
Para configurar o serviço CUPS é necessário instalar o pacote

```
$sudo apt-get install cups
```

1. Após a instalação do pacote é necessário configurar o cups.conf.

```
$sudo nano /etc/cups/cupsd.conf
```

Caminho do arquivo: `/etc/cups/cupsd.conf`



```
GNU nano 5.4 /etc/cups/cupsd.conf *
# Default authentication type, when authentication is required...
DefaultAuthType Basic

# Web interface setting...
WebInterface Yes

# Restrict access to the server...
<Location />
  Order allow,deny
  Allow @LOCAL
</Location>

# Restrict access to the admin pages...
<Location /admin>
  Order allow,deny
  Allow @LOCAL
</Location>

# Restrict access to configuration files...
<Location /admin/conf>
  AuthType Default
  Require user @SYSTEM
  Order allow,deny
  Allow @LOCAL
</Location>
```

2. Depois de configurar é necessário reiniciar e logo após dá um status para verificar se está ativo.

Comando para reiniciar o serviço:

```
$sudo systemctl restart cups
```

```
$sudo systemctl start cups
```

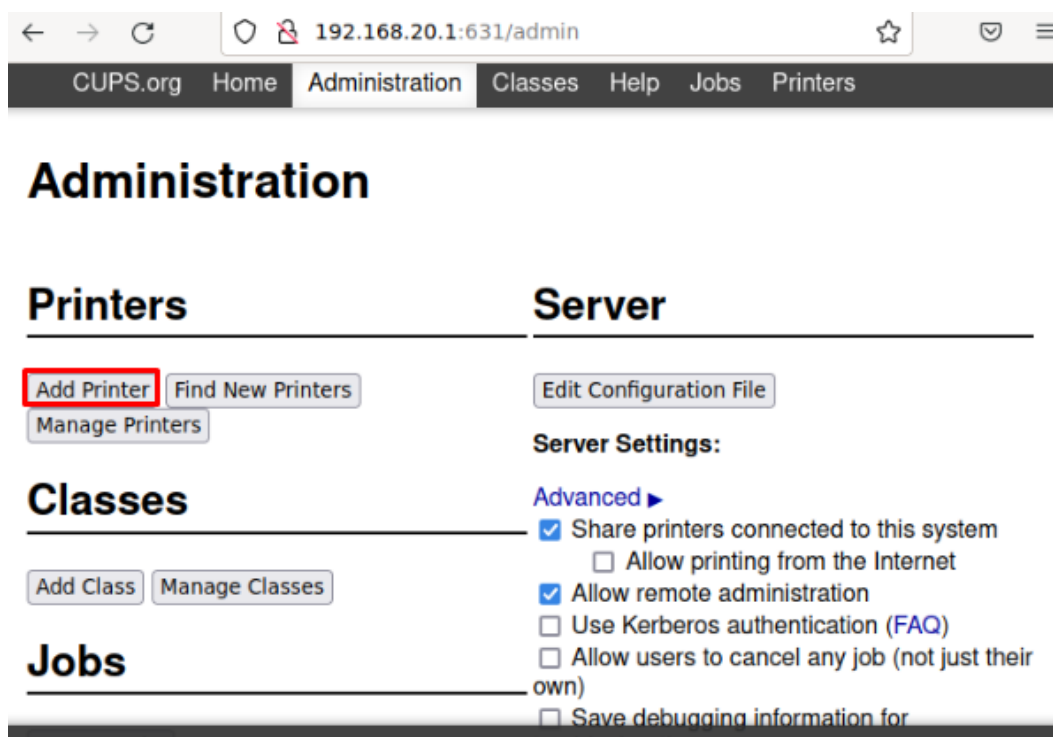
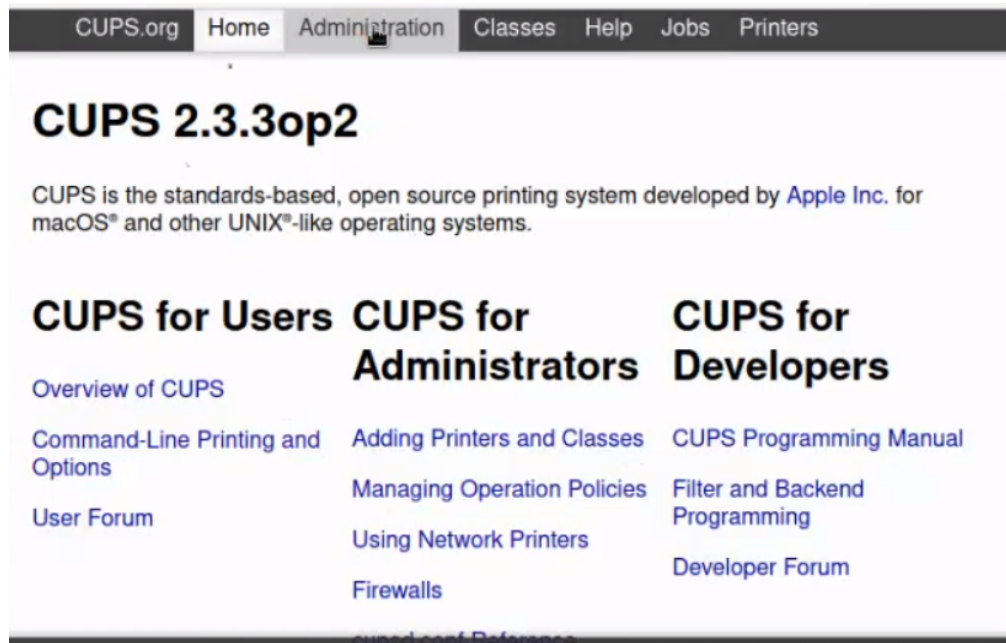
```
$sudo systemctl enable cups
```

```
$sudo systemctl status cups
```

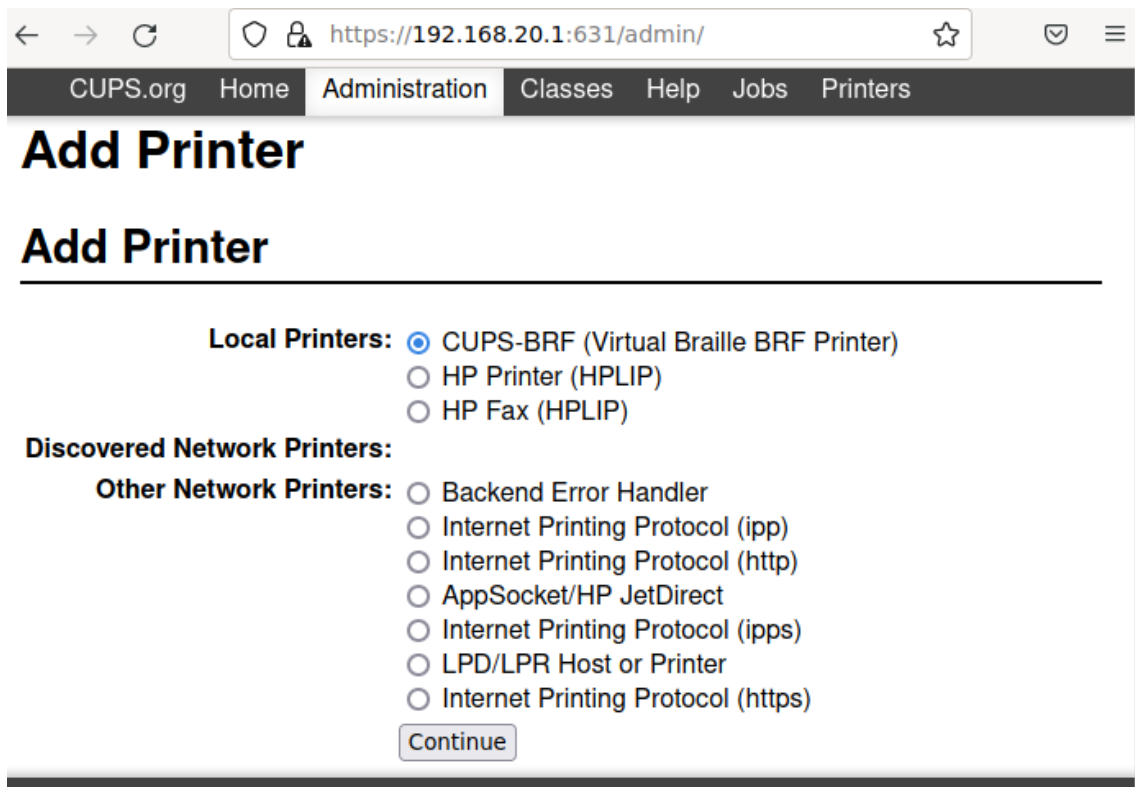
```
danyism@servidor:~$ sudo systemctl restart cups
danyism@servidor:~$ sudo systemctl start cups
danyism@servidor:~$ sudo systemctl enable cups
Synchronizing state of cups.service with SysV service script with /lib/systemd/s
ystemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable cups
danyism@servidor:~$ sudo systemctl status cups
• cups.service - CUPS Scheduler
   Loaded: loaded (/lib/systemd/system/cups.service; enabled; vendor preset: >
   Active: active (running) since Tue 2022-07-12 11:29:02 -03; 30s ago
   TriggeredBy: • cups.socket
                • cups.path
   Docs: man:cupsd(8)
   Main PID: 724 (cupsd)
   Status: "Scheduler is running..."
   Tasks: 2 (limit: 3460)
   Memory: 1.9M
   CPU: 29ms
   CGroup: /system.slice/cups.service
           └─724 /usr/sbin/cupsd -l

Jul 12 11:29:02 servidor systemd[1]: Starting CUPS Scheduler...
Jul 12 11:29:02 servidor systemd[1]: Started CUPS Scheduler.
lines 1-16/16 (END)
```

3. Para acessar a Interface do navegador CUPS – Vá para <https://ipdoservidor:631>. E clique em **Administração** e depois em **Add Printer**



4. Agora escolha a opção de compartilhamento da sua impressora.



← → ↻ https://192.168.20.1:631/admin/

CUPS.org Home Administration Classes Help Jobs Printers

Add Printer


Add Printer

Local Printers: ☒ CUPS-BRF (Virtual Braille BRF Printer)
☐ HP Printer (HPLIP)
☐ HP Fax (HPLIP)

Discovered Network Printers:

Other Network Printers: ☐ Backend Error Handler
☐ Internet Printing Protocol (ipp)
☐ Internet Printing Protocol (http)
☐ AppSocket/HP JetDirect
☐ Internet Printing Protocol (ipps)
☐ LPD/LPR Host or Printer
☐ Internet Printing Protocol (https)

5. Agora escolha o nome da impressora e a sua localização, além disso, marque a opção **Share This Printer**



← → ↻ https://192.168.20.1:631/admin

CUPS.org Home Administration Classes Help Jobs Printers

Add Printer

Add Printer

Name:
(May contain any printable characters except "/", "#", and space)

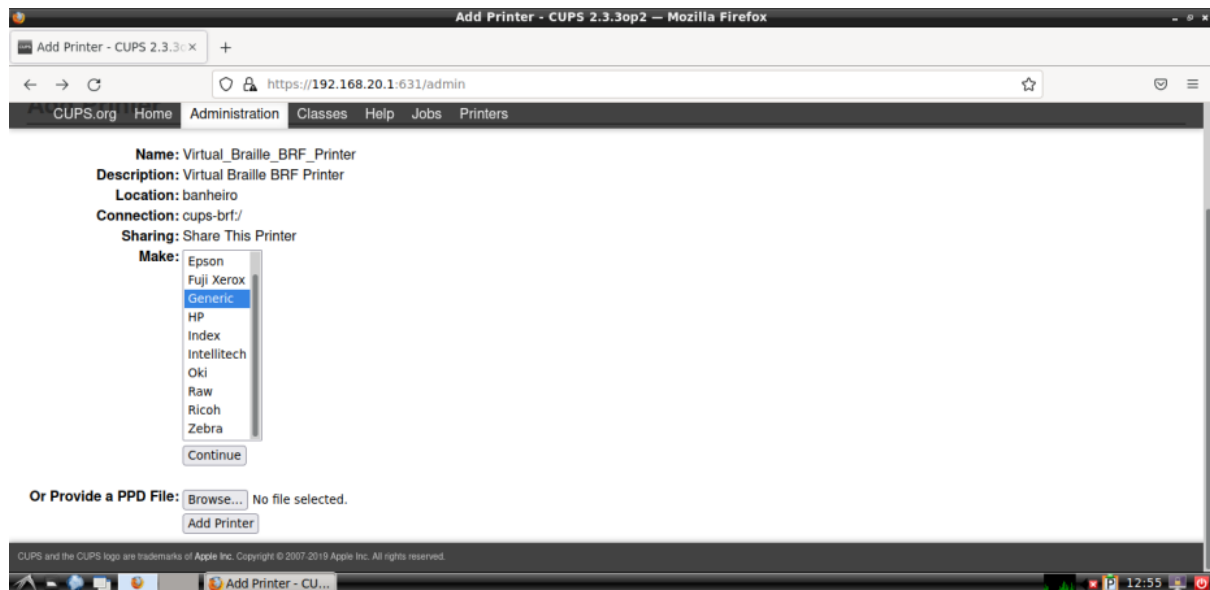
Description:
(Human-readable description such as "HP LaserJet with Duplexer")

Location:
(Human-readable location such as "Lab 1")

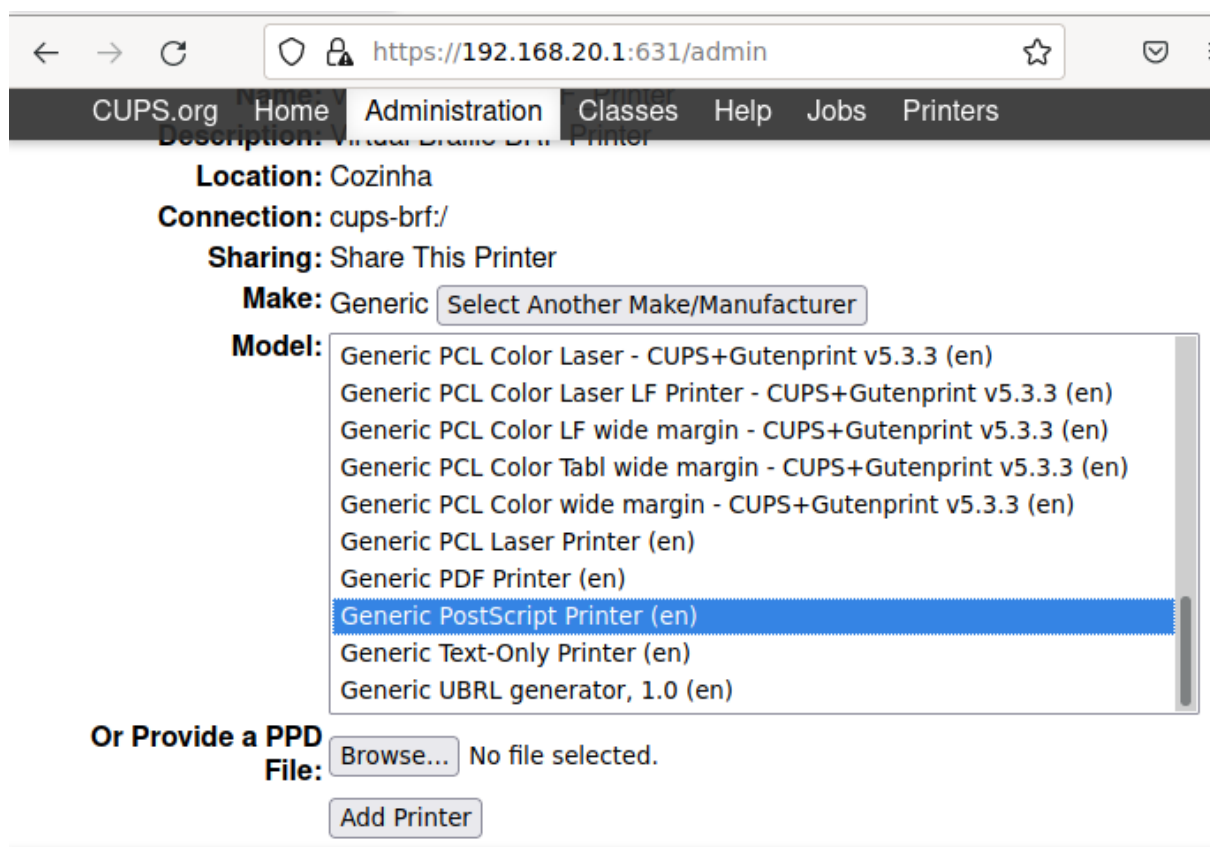
Connection: cups-brf/

Sharing: ☒ Share This Printer

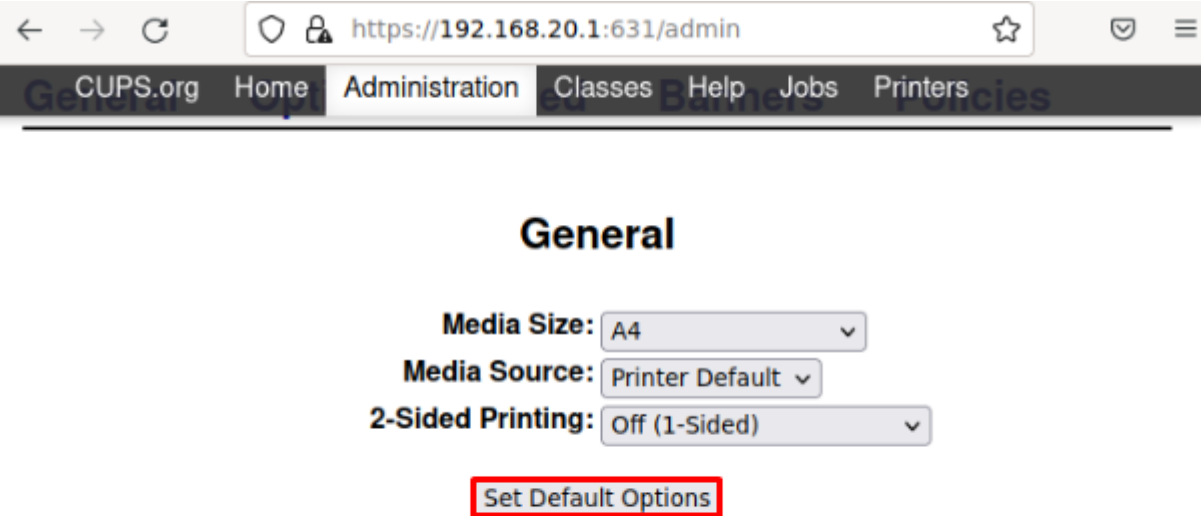
6. Agora escolha a marca da sua impressora.



7. Agora escolha o modelo da impressora.



8. Escolha o tipo de **Media Size**:



The screenshot shows a web browser window with the address bar displaying `https://192.168.20.1:631/admin`. The navigation bar includes links for CUPS.org, Home, Administration (selected), Classes, Help, Jobs, and Printers. The main content area is titled "General" and contains three settings:

- Media Size:** A4 (dropdown menu)
- Media Source:** Printer Default (dropdown menu)
- 2-Sided Printing:** Off (1-Sided) (dropdown menu)

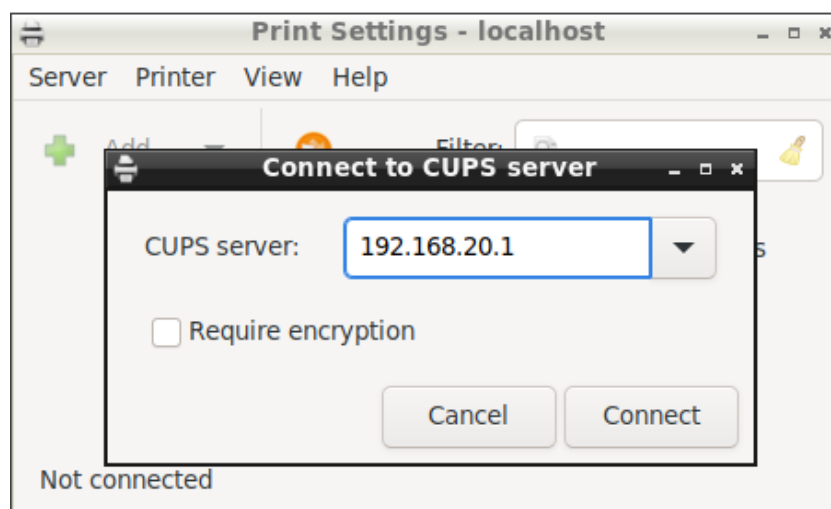
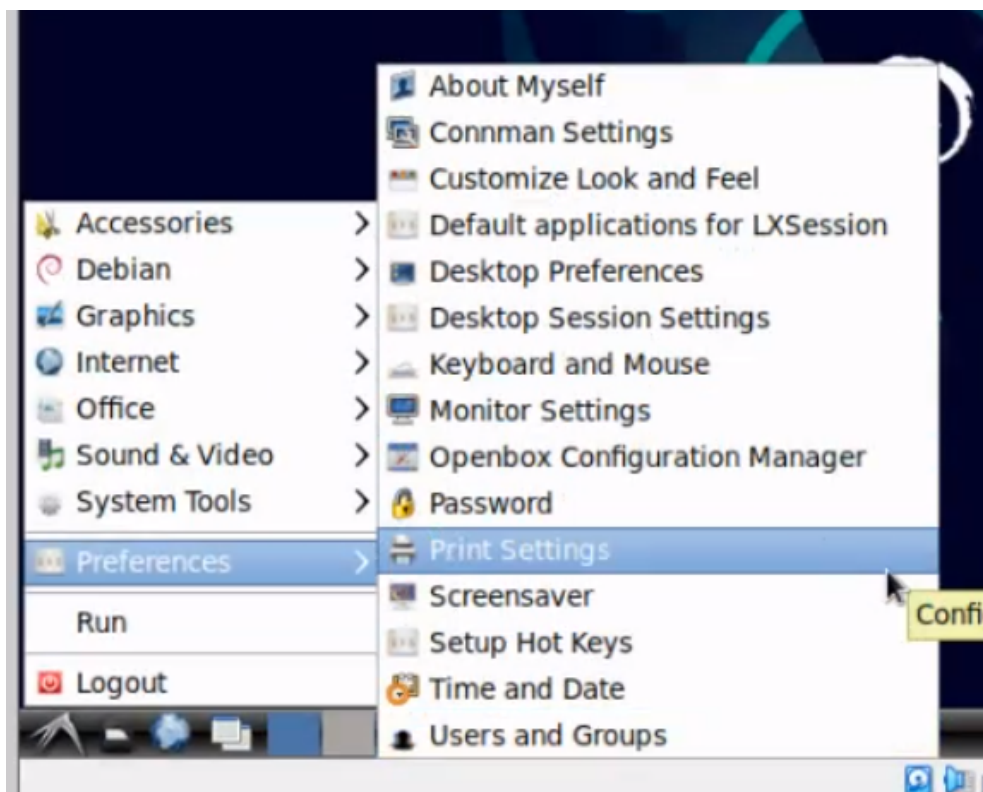
Below these settings is a button labeled "Set Default Options", which is highlighted with a red rectangular border.

Como acessar a impressora

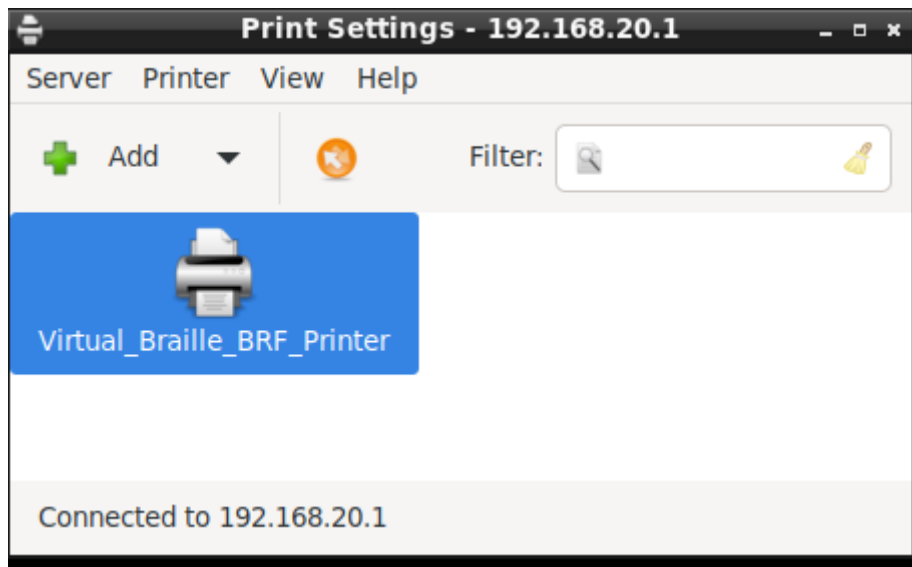
1. Caso o usuário utilize a interface LXDE é necessário instalar um drive para utilizar a impressora:

```
$sudo apt-get install system-config-printer
```

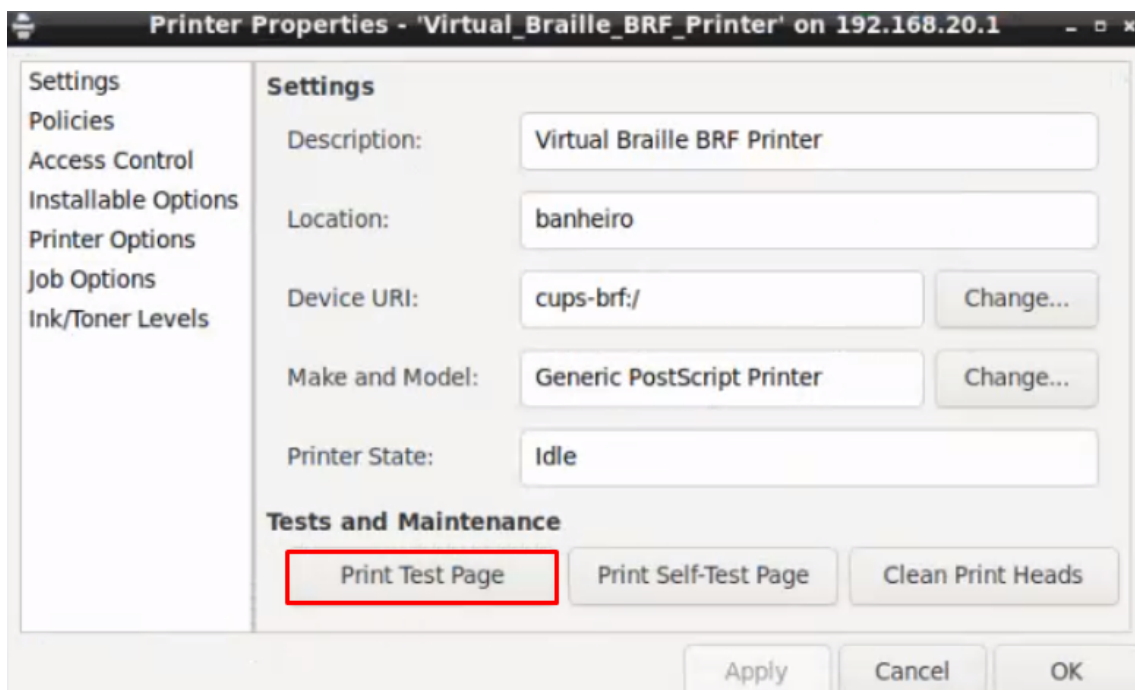
Entre no drive e coloque o ip do servidor



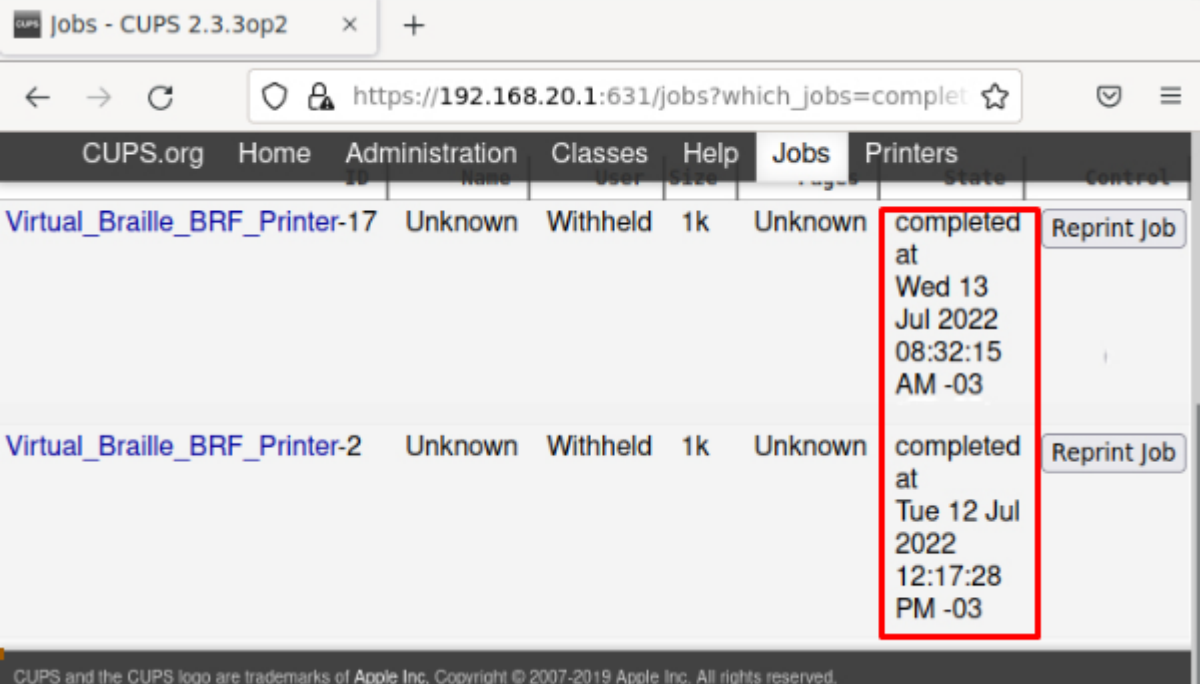
2. Após isso a impressora irá aparecer, clique na impressora que deseja testar.



3. Clique em **Print Test Page** para testar a impressora:



4. Agora clique em **Jobs** na página de configuração do cups e verifique o status de cada impressão.



The screenshot shows a web browser window with the address bar displaying `https://192.168.20.1:631/jobs?which_jobs=complet`. The page title is "Jobs - CUPS 2.3.3op2". The navigation bar includes links for CUPS.org, Home, Administration, Classes, Help, Jobs, and Printers. The "Jobs" tab is selected, displaying a table of print jobs. Two jobs are listed, both with a state of "completed". The first job, "Virtual_Braille_BRF_Printer-17", was completed on Wednesday, July 13, 2022, at 08:32:15 AM -03. The second job, "Virtual_Braille_BRF_Printer-2", was completed on Tuesday, July 12, 2022, at 12:17:28 PM -03. Each job entry has a "Reprint Job" button. A red rectangle highlights the completion status and timestamps for both jobs.

ID	Name	User	Size	State	Control
Virtual_Braille_BRF_Printer-17	Unknown	Withheld	1k	Unknown	completed at Wed 13 Jul 2022 08:32:15 AM -03 Reprint Job
Virtual_Braille_BRF_Printer-2	Unknown	Withheld	1k	Unknown	completed at Tue 12 Jul 2022 12:17:28 PM -03 Reprint Job

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