ATEM Controller

Install OpenSwitcher:

```
flatpak remote-add openswitcher https://flatpak.brixit.nl/brixit.flatpakrepo
```

```
flatpak install https://flatpak.brixit.nl/switcher-stable.flatpakref
```

then run the app, if you have Errors run in Terminal:

```
flatpak run nl.brixit.Switcher
```

If you get some Errors like this:

```
error: runtime/org.gnome.Platform/x86_64/42 not installed
```

Install:

```
flatpak install flathub org.gnome.Platform//42
```

Guide: Running ATEM Control on Linux via Wine

and Receiving RTMP Streams with nginx

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Install ATEM Control using Wine

1. Installation von Wine:

a. Aktualisieren Sie zunächst Ihre Paketliste:

```
sudo apt update
```

b. Installieren Sie anschließend die 64-Bit- und 32-Bit-Versionen von Wine:

```
sudo apt install wine64 wine32
```

c. Erstelle neues wine dir:

```
WINEPREFIX=$HOME/.wine-atem wineboot
```

Um sicherzustellen, dass Wine korrekt installiert ist, führen Sie:

```
WINEPREFIX=$HOME/.wine-atem winecfg
```

Dadurch wird das Wine-Konfigurationsfenster geöffnet und falls erforderlich, wird eine neue Wine-Installation in Ihrem Home-Verzeichnis eingerichtet.

2. Download des erforderlichen VC++ Redistributable:

Laden Sie die VC++ Redistributable Datei herunter, die einige der von ATEM Control benötigten Bibliotheken enthält:

```
wget https://download.microsoft.com/download/9/3/F/93FCF1E7-E6A4-478B-96E7-D4B285925B00/vc_redist.x64.exe
```

3. Installation der VC++ Redistributable mit Wine:

Installieren Sie die heruntergeladene Datei mit Wine:

```
WINEPREFIX=$HOME/.wine-atem WINEARCH=win64 wine64 vc_redist.x64.exe
```

4. Download und Installation von ATEM Control:

a. Besuchen Sie die offizielle Blackmagic Design-Website und laden Sie die ATEM Control-Software herunter. (Hier kann ich keinen direkten Link bereitstellen, da die URL von der Version und anderen Faktoren abhängen kann.)

b. Nachdem Sie die ATEM Control-Installationsdatei heruntergeladen haben (angenommen, es handelt sich um eine `.exe`-Datei), navigieren Sie zu dem Verzeichnis, in dem die Datei gespeichert ist.

c. Führen Sie die Installation von ATEM Control mit Wine aus:

```
WINEPREFIX=$HOME/.wine-atem WINEARCH=win64 wine64 YOUR_DOWNLOADED_FILE.exe
```

Ersetzen Sie `YOUR_DOWNLOADED_FILE.exe` durch den genauen Namen der heruntergeladenen ATEM Control-Installationsdatei.

d. Befolgen Sie die Installationsanweisungen im Setup-Assistenten, um ATEM Control zu installieren.

Nach Abschluss dieser Schritte sollte ATEM Control unter Wine auf Ihrem Linux-System installiert sein und einsatzbereit sein.

Create a Desktop Shortcut for ATEM Control

1. Create a new file named `BMD-atem-control.desktop`:

   ```
   vim BMD-atem-control.desktop
   ```

2. Insert the following content into the file:

   ```
   #!/usr/bin/env xdg-open
   [Desktop Entry]
   Version=1.0
   Type=Application
   Terminal=true
   Icon=mate-panel-launcher
   Icon[en_US]=mate-panel-launcher
   Name[en_US]=BMD-atem-control
   Exec=env WINEPREFIX=$HOME/.wine-atem WINEARCH=win64 taskset -c 0 wine64
   /home/joscha_mijailovic/.wine64/drive_c/Program\ Files\ \(x86\)/Blackmagic\
   Design/Blackmagic\ ATEM\ Switchers/ATEM\ Software\ Control/ATEM\ Software\
   Control.exe
   Name=BMD-atem-control
   ```

3. Save and exit.
4. Make the `.desktop` file executable:

   ```
   chmod +x BMD-atem-control.desktop
   ```

Receive RTMP Streams using nginx

1. Install nginx with the RTMP module:

```
sudo apt install libnginx-mod-rtmp nginx
```

2. Edit the nginx configuration file:

```
sudo vim /etc/nginx/nginx.conf
```

3. Add the following RTMP configuration to the end of the file:

```
rtmp {
    server {
        listen 1935;
        chunk_size 4096;

        application live {
            live on;
            record off;
        }
    }
}
```

4. Save and exit.
5. Restart nginx:

```
sudo systemctl restart nginx
```

Configure RTMP Stream in ATEM

1. Start the ATEM Software Control.
2. Navigate to `Settings > Streaming`.
3. Choose `RTMP` as the protocol.
4. Enter the RTMP address of the nginx server. It should look like: `rtmp://YOUR_SERVER_IP/live`.
    1.
```
<?xml version="1.0" encoding="UTF-8" ?>
<streaming>
    <service>
□□<name>OBS</name>
□□<servers>
□□□<server>
```

<name>10.202.0.2</name>
<url>rtmp://10.202.0.2:1935/live</url>
</server>
</servers>
<profiles>
<profile>
<name>Streaming High</name>
<config resolution="1080p" fps="60">
<bitrate>6000000</bitrate>
<audio-bitrate>128000</audio-bitrate>
</config>
</profile>
<profile>
<name>Streaming Medium</name>
<config resolution="720p" fps="60">
<bitrate>4500000</bitrate>
<audio-bitrate>128000</audio-bitrate>
</config>
<config resolution="720p" fps="30">
<bitrate>3000000</bitrate>
<audio-bitrate>128000</audio-bitrate>
</config>
<config resolution="1080p" fps="60">
<bitrate>7000000</bitrate>
<audio-bitrate>128000</audio-bitrate>
</config>
<config resolution="1080p" fps="30">
<bitrate>4500000</bitrate>
<audio-bitrate>128000</audio-bitrate>
</config>
</profile>
<profile>
<name>Streaming Low</name>
<config resolution="720p" fps="60">
<bitrate>2250000</bitrate>
<audio-bitrate>128000</audio-bitrate>
</config>
<config resolution="720p" fps="30">

```
□□□□□<bitrate>1500000</bitrate>
□□□□□<audio-bitrate>128000</audio-bitrate>
□□□□</config>
□□□□<config resolution="1080p" fps="60">
□□□□□<bitrate>4000000</bitrate>
□□□□□<audio-bitrate>128000</audio-bitrate>
□□□□</config>
□□□□<config resolution="1080p" fps="30">
□□□□□<bitrate>3000000</bitrate>
□□□□□<audio-bitrate>128000</audio-bitrate>
□□□□</config>
□□□</profile>
□□</profiles>
<!-- RTMP session username and password, if required by service
□□<credentials>
□□□<username>test</username>
□□□<password>abc123xyz</password>
□□</credentials>
-->
□</service>
□


</streaming>
```

5. Apply the settings.

Process the RTMP Stream in OBS

1. Open OBS.
2. Navigate to "Sources" and click on the "+" symbol to add a new source.
3. Choose "Media Source" and give it an appropriate name.
4. Uncheck "Local File" and enter your RTMP stream link in the "Input" box. It should look something like this: `rtmp://localhost/live`.
5. Confirm the settings, and the stream should now appear in OBS.

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