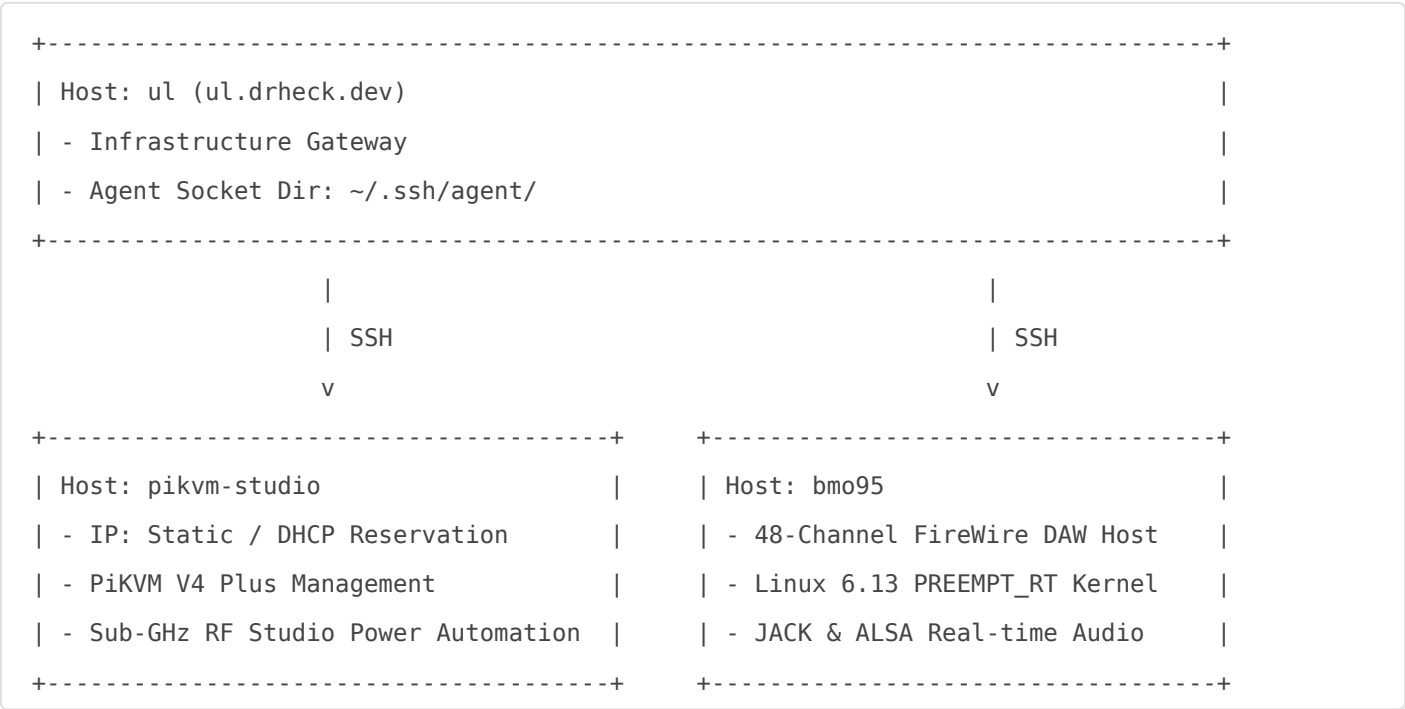


Studio Control Host & Remote Access

This page details the management nodes, network topology, SSH agent authentication chain, and operating system configurations for remote studio management.

1. Remote Access & SSH Socket Topology

All studio infrastructure is accessible securely through the main server, `ul`, via forwarded SSH authentication sockets:



2. pikvm-studio Specifications & Filesystem Model

- **Hardware:** PiKVM V4 Plus (Raspberry Pi 4 Model B, 2GB RAM)
- **Operating System:** Arch Linux ARM (`aarch64`, Linux 6.12.100-1-rpi)
- **Attached Peripherals:**
 - PiKVM V4 Plus capture & ATX power control board
 - Great Scott Gadgets YARD Stick One (`1d50:605b`, USB Bus 001)



Read-Only Root Filesystem (`ro` / `rw`)

To prevent SD card corruption during sudden power losses, `pikvm-studio` boots with a **read-only root filesystem** (`/` mounted `ro`).

Modification Workflow

When installing new utilities, Python libraries, or modifying configuration:

```
# 1. Remount root partition as read-write
$ sudo rw

# 2. Make file modifications or package updates
$ sudo cp /tmp/studio-power /usr/local/bin/studio-power
$ sudo chmod +x /usr/local/bin/studio-power

# 3. Remount root partition back to read-only
$ sudo ro
```

Temporary work, logs, and transient scripts can also be written to `/tmp` (tmpfs) without switching to `rw` mode.

3. `bmo95` Audio Host Specifications

- **Architecture:** `x86_64`
- **Kernel:** Linux 6.13.0-rt-preempt
- **Configuration Repository:** [link](#)

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