

# Clonezilla Live on RISC-V (Part 2): From Porting to Mass Deployment

- **Speakers:** Steven Shiau, Chen-Kai Sun, Yu-Chin Tsai
- **Room:** CC 203
- **Time:** Sun 11:20 am – 11:50 am
- **Format:** Lecture (30 Min + Q&A)
- **Difficulty:** Some experience required
- **Track:** OSS Distributions
- **Presenter Location:** In-person
- **Experience:** several-th time speaking
- **At:** at lfnw

## Description:

As the RISC-V ecosystem matures from development boards into production-ready hardware, the need for reliable, scalable deployment tools becomes increasingly important. This talk continues the story of bringing **Clonezilla Live** to the RISC-V architecture — moving from the challenges of initial porting to the realities of mass deployment.

The speakers first detail the technical hurdles of porting Debian-based Clonezilla to next-generation hardware such as the **DC-ROMA RISC-V Laptop II (SpacemiT K1 SoC)**. Topics include navigating complex boot chains (U-Boot → UEFI) and integrating vendor-specific kernels and firmware (e.g., Bianbu Linux) to achieve stable bare-metal booting.

Building on that foundation, the session presents a scalable strategy for provisioning RISC-V clusters using **HiFive Premier P550 boards** and **DC-ROMA laptops**. Instead of traditional PXE workflows, the team demonstrates a flexible **“Net Clone”** approach where clients boot locally and synchronize via Clonezilla Lite Server. This includes the novel **BDMfRD (BitTorrent Deployment from Raw Device)** mechanism, which distributes data peer-to-peer directly from raw disk partitions — eliminating intermediate image creation, reducing preparation time, and avoiding multicast bottlenecks.

## Target Audience:

- System administrators
- RISC-V developers
- Cluster and deployment engineers
- Anyone interested in large-scale open-hardware provisioning

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