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Packaging and system administration with Nix and NixOS

Friday 19 April 2024 11:10 (25 minutes)

Nix is a tool for packaging software with a heavy focus on reproducibility. NixOS is a Linux distribution based on the Nix package manager.

This talk is a series of demonstrations of what Nix and NixOS can do for you. Depending on the time, here is what I'm going to show off:

- A presentation of the Nix model
- Its advantages in terms of supply-chain security
- Building minimal, reproducible Docker images
- Declarative Linux distribution with NixOS
- Remote administration of an offline NixOS system
- Rollbacks of a whole NixOS system
- Building NixOS Docker images
- Building VMs, ISOs, Containers
- Integration tests
- Cross-compilation and generating images for embedded systems

Desired slot length

Speaker release

Yes

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Session Classification: Basic and end-user IT services

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