Transactional Systems in the Fedora Ecosystem

- **Speaker**: Shawn W Dunn and Neal Gompa
- **Room**: 340
- **Time**: Saturday, 11:30 – 12:20

- **Format**: Talk (50 minutes)
- **Difficulty**: Intermediate
- **Track**: Operating Systems
- **Additional Tags**: Fedora, openSUSE, Transactional Updates, Linux Kernel, Filesystems, Atomic Updates
- **Experience**: Shawn W Dunn is a Lead Developer for Kalpa Desktop, an openSUSE Board Member, and an LXQt Maintainer; Neal Gompa is a developer for Fedora, AlmaLinux, CentOS, and openSUSE focusing on base system components and package management.

Description:

Transactional systems provide a flexible middle ground between the image-based updates of Fedora Atomics and the traditional read-write filesystems of standard Fedora. By utilizing atomic updates, these systems offer increased stability and the critical ability to roll back snapshots in the event of failure or for troubleshooting. This session explores the fundamental concepts of transactional updates and examines their existing implementation in openSUSE to discuss the requirements for bringing this functionality to Fedora. The presenters will detail how transactional systems function in both read-only contexts—leveraging containers and Flatpaks for workloads—and read-write contexts to ensure more reliable system evolution.

Target Audience:

- Linux enthusiasts and Fedora/openSUSE users
- System administrators interested in immutable infrastructure
- Developers focused on OS architecture and package management

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