



# Introduction to openSUSE

An initiative to onboard newcomers

# Agenda

- Opening
- About the initiative
- Current topic
- Closing

# About the initiative

Purpose, topics, and schedule

# About the Initiative

- Purpose
  - Aimed towards newcomers to openSUSE
- Topics and Schedule
  - Part 1: Introduction to openSUSE, 08.07.2021 18:30
  - Part 2: Getting to know YaST, 15.07.2021 18:30
  - **Part 3: Managing network, disks, and software, 22.07.2021 18:30**
- Requirements
  - Basic Linux knowledge (e.g., working with other distributions)
  - Basic virtualization skills (e.g., knowing VirtualBox or similar)
  - Desire to learn and experiment 😊

# About the Other Initiative

- There is another one as well
  - **SUSE Certified Administrator Journey**
- It starts on
  - 27.07.2021 / 18:30
- Even if you did not sign up, you can attend or watch it later
- Share it with others if you like
- The link is the same
  - <https://meet.google.com/jeb-tvuq-amm>



# Part 3: Managing network, disks, and software

# Software Management

# Package Management

- RedHat Package Management (RPM)
- Depending on the context, **rpm** may stand for
  - Package format
  - Package database
  - Package management tool



# Higher Level Management

- CLI (**Zypper**) and package manager (**ZYpp** or **libzypp**)
- Configuration (**/etc/zypp/zypper.conf** and **/etc/zypp/zypp.conf**)
- Repositories (**/etc/zypp/repos.d/\*.repo**)
- Cache files (**/var/cache/zypp**)
- Log file (**/var/log/zypper.log**) and history (**/var/log/zypp/history**)

# Network Management

# Two Options

- **Network Manager**

- Default on installations with desktop environment
- Supported by other distributions as well

- **Wicked**

- Set by default on text-mode installations
- Used only by openSUSE and SUSE

# Network Manager

- Service is **NetworkManager.service**
- Management Tools
  - **nmcli**
  - **nmtui**
- Configuration Files
  - **/etc/NetworkManager/\***
  - **/etc/sysconfig/network-scripts/\***

# Wicked

- Services are **wicked.service** and **wickedd.service**
- Management Tools
  - **wicked**
- Configuration Files
  - **/etc/wicked/\***
  - **/etc/sysconfig/network/\***

# Disk Management

# BTRFS

- Characteristics
  - Max volume size: **16 EiB**
  - Max file size: **16 EiB**
  - Max filename length: **255 bytes**
- Features
  - Online defragmentation
  - Online growth and shrinking
  - Transparent compression
  - Snapshots

# Tools

- General management
  - **btrfs**
- Snapshots management
  - **snapper**



# Demo Time

A short demo and discussion

# Closing

Any Questions? 😊

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Most recent version can be downloaded from [\*\*https://github.com/shekeriev/series-intro-opensuse\*\*](https://github.com/shekeriev/series-intro-opensuse)