



# 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>



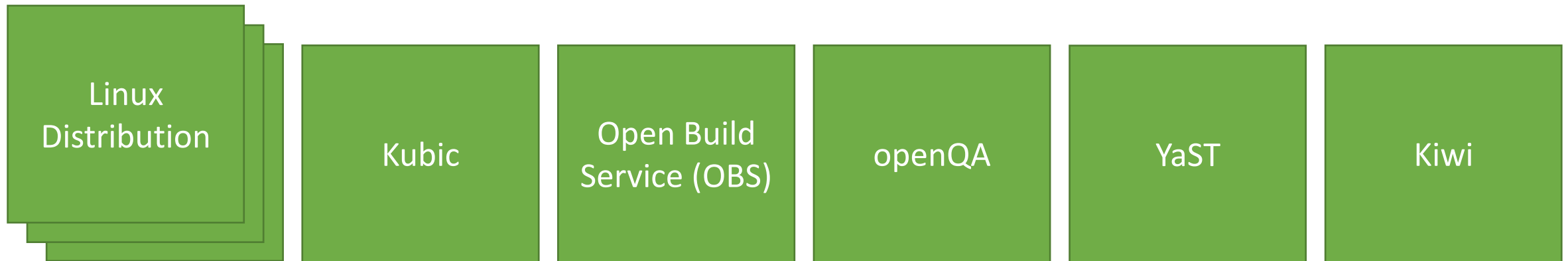
# Part 1: Introduction to openSUSE

# What is openSUSE?

Is it just one thing?

# What is openSUSE

- Depending on the context, it can mean either a Linux distribution or something else
- We can safely say that it is a **project** or even a **project umbrella**





# openSUSE Linux Distributions

There is something for everyone

# openSUSE Leap

- It is a **Long-Term Support (LTS) distribution**
- Uses **source code and binaries** from **SUSE Linux Enterprise**
- One **minor release** is expected approximately **every 12 months**
- One **major release** is expected after approximately **36-48 months**
- Supports **only 64-bit hardware**
- Additional information <https://en.opensuse.org/Portal:Leap>
- Download from <https://get.opensuse.org/leap/>

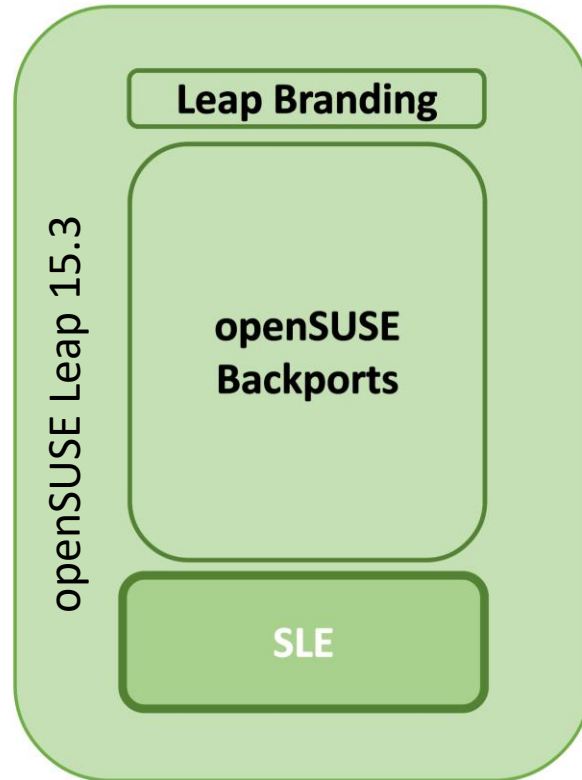
# openSUSE Tumbleweed

- It is a **Rolling distribution**
- Continuously updated + Leading-edge
- Stable, Safe, Secure, and Simple
- Supports both 32-bit and 64-bit hardware
- Additional information <https://en.opensuse.org/Portal:Tumbleweed>
- Download from <https://get.opensuse.org/tumbleweed/>

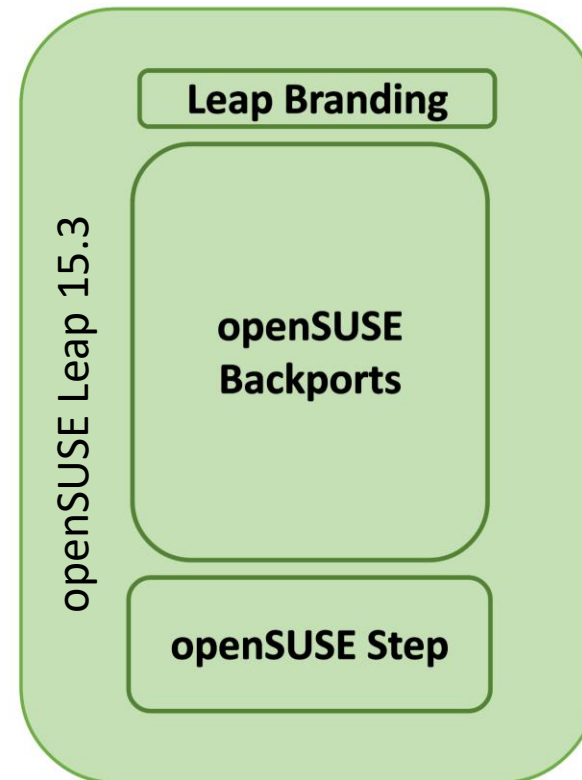
# openSUSE MicroOS

- **Dualistic:** Either based on **openSUSE Tumbleweed** or ***openSUSE Leap***
- **Small:** Lightweight images designed to be deployed for a specific use case
- **Scalable:** Optimized for large deployments while capable as a single machine OS
- **Always up-to-date:** Updates are automatically applied without impacting the running system
- **Resilient:** In case of trouble the system automatically rolls back to last working state
- **Fast:** Doesn't ship with baggage that slows it down

# openSUSE Step



AArch64, X86\_64, PPC64, S390X



32-bit Arm/x86, other non-SLE

<https://en.opensuse.org/Portal:Leap/openSUSE:Step>

# openSUSE Argon

- Based on the latest stable release of openSUSE Leap
- Includes the latest release (incl. Betas and Release Candidates) of
  - KDE Frameworks
  - KDE Plasma
  - KDE Applications
- Suitable for developers that want to test against the latest versions
- Download from  
[http://download.opensuse.org/repositories/KDE:/Medias/images/iso/?P=\\*Argon.\\*.iso](http://download.opensuse.org/repositories/KDE:/Medias/images/iso/?P=*Argon.*.iso)

# openSUSE Krypton

- Based on the latest snapshot of openSUSE Tumbleweed
- Includes builds of the master branch of
  - KDE Frameworks
  - KDE Plasma
  - KDE Applications
- Suitable for developers that want to test against the latest versions
- Download from  
[http://download.opensuse.org/repositories/KDE:/Medias/images/iso/?P=\\*Krypton.\\*.iso](http://download.opensuse.org/repositories/KDE:/Medias/images/iso/?P=*Krypton.*.iso)

# openSUSE GNOME Next

- Based on the latest snapshot of openSUSE Tumbleweed
  - Includes latest GNOME release
  - Suitable for developers that want to test against the latest versions
- 
- Download from  
[https://download.opensuse.org/repositories/GNOME:/Medias/images/iso/?P=GNOME\\_Next\\*](https://download.opensuse.org/repositories/GNOME:/Medias/images/iso/?P=GNOME_Next*)



# Other openSUSE Projects

Something for everyone

# openSUSE Kubic

- Project maintaining multiple **container-related technologies** as part of the openSUSE Project
- Consists of two major components:
  - **openSUSE MicroOS** - an openSUSE based operating system providing **Transactional (Atomic) Updates** upon a read-only btrfs root filesystem, designed to host container workloads with automated administration & patching
  - **kubeadm** - a Kubernetes cluster bootstrapping tool integrated as part of openSUSE Kubic to run atop openSUSE MicroOS

# Open Build Service

- Generic system to **build** and **distribute** binary packages from sources
- This is done in an **automatic**, **consistent** and **reproducible** way
- Can be used for releasing **package**, **updates**, **add-ons**, **appliances** and even **entire distributions**
- Covers wide range of operating systems and **hardware architectures**
- Offered both as a **hosted** and **on-premises solution**

# Get It

Media types and delivery methods

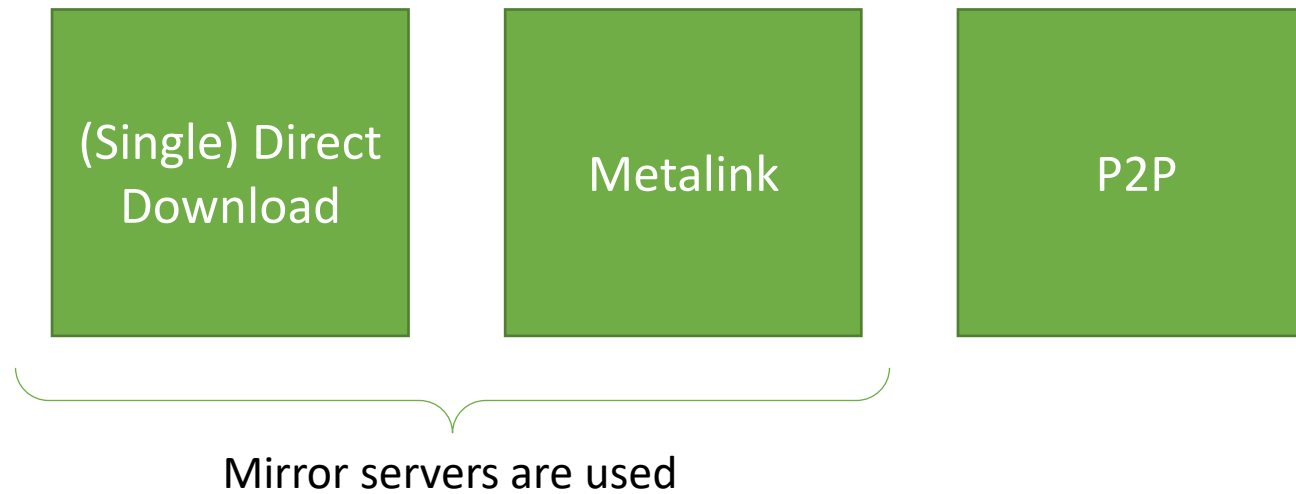
# openSUSE Leap 15.3

- Architectures
  - Intel/AMD 64-bit (x86\_64)
  - Arm 64-bit (aarch64)
  - PowerPC (ppc64le)
  - IBM Z/LinuxONE (s390x)
- Media Types
  - Offline Image or Network Image
- Media Profiles
  - Installation, JeOS, Live

# openSUSE Tumbleweed

- Architectures
  - Intel/AMD 64-bit (x86\_64)
  - Intel/AMD 32-bit (i686)
  - Arm 64-bit (aarch64)
  - PowerPC (ppc64le)
  - IBM Z/LinuxONE (s390x)
- Media Types
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# ISO Delivery Methods



# Try It

Options, installation profiles and steps



# Give It a Try

- Not quite sure yet
  - Use one of the available Live medias
  - Even though, technically possible to install it from one, don't do it
- You want to install it
  - Use either a separate machine or a virtualization solution
  - Download the appropriate media (either NET or Offline) for your hardware
  - Attach it to the machine (you may need to burn it on DVD or USB) and boot
  - Select a profile
  - Adjust the proposed settings and selected packages

The Game Is On

Have a lot of fun ... 😊

# Give Back

Give back to the project and community

# Some Contribution Ideas

- Spread the word about the project
- Help others to adopt it
- Take part in different initiatives
  - Translations
  - Bugs reporting
  - Building software packages

# Demo Time

A short demo and a discussion

# Closing

Any Questions? 😊

Follow us on Facebook at:

<https://www.facebook.com/openSUSEBulgaria>

See You Soon 😊

# Request a Goodie

Check out our online shop at

<https://shop.bgosug.org>

and order your goodies for free \*

*\* The delivery costs are on you*

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