



# Automatically testing distribution kernel packages

## Motivation:

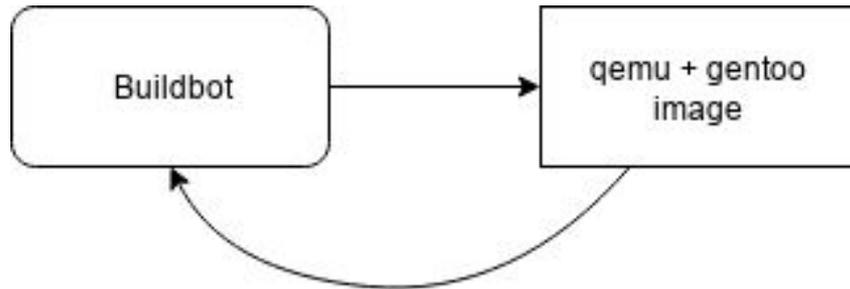
- Provide tested and safe to use kernel packages
- Improve quality of the kernel packages on Gentoo

- Currently we are testing gentoo-sources and other derived packages
- gentoo-sources
  - Genpatches (package containing patches for each kernel)
    - One specific gentoo patch
  - Kernel sources

## What we are doing for Gentoo kernel package testing:

- Testing multiple kernel configurations
  - make allyesconfig (succeeds?)
  - Make defconfig or any other reasonable configuration (succeeds?)
  - stabilize package
- Toolchains can introduce major changes and widespread breakage
  - Build with different toolchains

# What we currently have for Gentoo kernel package testing



# What we are thinking to doing for Gentoo kernel package testing



## Generalizing:

- Jenkins vs buildbot or any other testing system
- We need more kernel testing not just boot test
  - LPT, kselftest
- Lava or not ?
  - Bbci (specific to boot, helping us testing gentoo kernels packages) <http://kernel.montjoie.ovh/lava/>

[https://github.com/gentoo/Gentoo\\_kernelCI](https://github.com/gentoo/Gentoo_kernelCI)

Recently working with docker

[https://github.com/aliceinwire/GkernelCI\\_docker](https://github.com/aliceinwire/GkernelCI_docker)