Innovation Drives the Future of openEuler
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Why openEuler?

There are several reasons to build the openEuler project:

1. Make new technologies and features more accessible to end users
2. Provide a unified platform to support ARM systems from IoT to the cloud
3. Make OS platforms easier to use
R1: Deliver New Features to End Users Faster and Easier

Several months or even one year

Chipset release
Enable upstream community
Enable commercial OS vendors
The gap

For commercial OS vendors, that’s reasonable. But can we make things better?
Developing an OS is no easy job!
How openEuler Fixes R1?

openEuler is more aggressive in technology and release policy.

- openEuler has a more aggressive release cycle.
- Upstream first, but openEuler is more open to new features, encouraging inclusion of new tech.
R2: ARM Is Used from IoT to Cloud, But OS Is Not

From the perspective of ISA, different ARM chipsets are similar. While OSs may also look similar, they are different actually. That brings heavy, tedious work for developers and users.
How openEuler Fixes R2?

We need a unified distribution base to fix R2.

Make commercial distributions easier to support ARM64.
How openEuler Fixes R2?

Need solutions that can help IoT and cloud share the same infrastructure.

How to start

iSulad

Make virtualization and containers light enough.

Build a new infrastructure from IoT to cloud.

StratoVirt
How openEuler Fixes R2?

iSula
StratoVirt
Kernel

Share the same software from IoT, edge, to cloud. Simplify the software stack.
R3: The Need to Make OS Easier to Use

Generally, IT infrastructure is complicated. It’s not easy to upgrade, optimize and secure the system.
openEuler welcomes any new ideas. We want to bring some changes to the OS.

Secure  Cloud  native  Easy to use

openEuler will set up some projects with focus on these 3 areas.
Security on openEuler: CloudEnclave

Make confidential computing not difficult any more.

• Build unified and easy-to-use interfaces for application developers.
• Isolate developers from complicated hardware details and different SDKs.
Rethink OS in a Cloud Native Way

RPM-based OS distribution has big problems in upgrade and maintenance.

- Put OS itself into a container image. Upgrade OS means replacing the container image other than installing yum.
- Consider putting more OS services to the cloud than run locally.

We need to put OS itself into container as well.

We call it: CLOUD NATIVE OS
Easy-to-Use openEuler

A-Tune: Performance tuning is not difficult any more.

**Modeling:** Build optimal resource models for systems running on the Kunpeng processor.

**Awareness:** Build service scenario profiles to intelligently identify service scenario models.

**Decision-making:** Realize the dynamic scheduling transformation from service model to resource model.
Join the openEuler Community

- Sign CLA
- Assign issues
- Join SIG
- Build dev environment
- Contribute code
- Review code
- Community activities
Welcome to openEuler
Thank you