






Open Demos EMEA

Build multi-architecture CI-CD pipelines to run your apps in the cloud and at the Edge!

Nicolas Massé

Principal Solution Architect

Online presence

-  www.itix.fr
-  [nmasse-itix](#)
-  [nicolasmasse](#)

Media coverage

- Interviews : Matinale IT for Business
- Articles : Le Monde Informatique, Le Mag IT, Programmez!
- Contributions : Red Hat Developers Blog



Nicolas Massé

Principal Solution Architect at **Red Hat**
17 years experience in IT

Field of expertise

- DevOps : Automation, Infrastructure as Code
- Containers : OpenShift, Kubernetes, Podman
- Edge Computing : Hardware (IoT development on ESP32) & Software (Bluetooth Low Energy on Linux)
- Security

Hobbies

- Development in Go
- Open Source contributions
- Lego Technic, Photography, Mountain Biking, Climbing
- Home Automation

Demo timeline

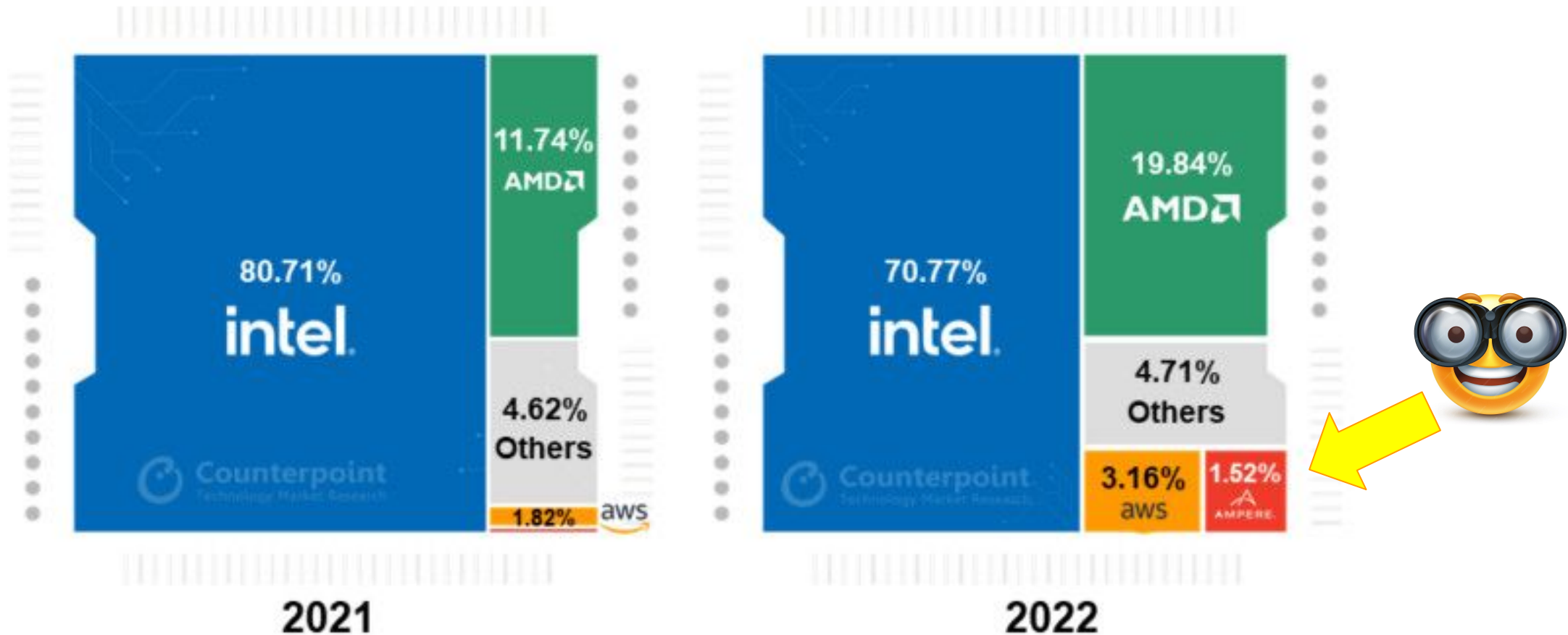
Slides

- Context
- Architecture

Démo

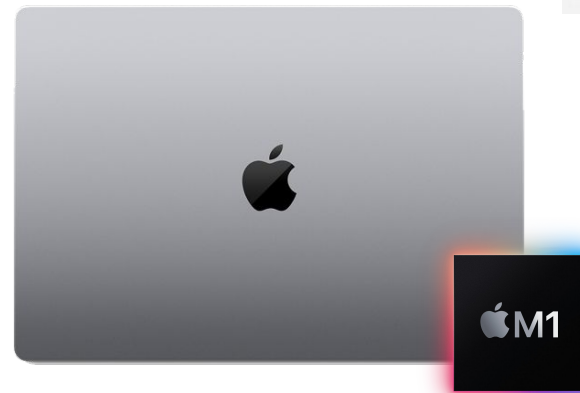
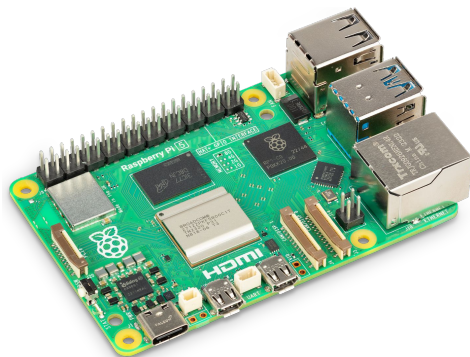
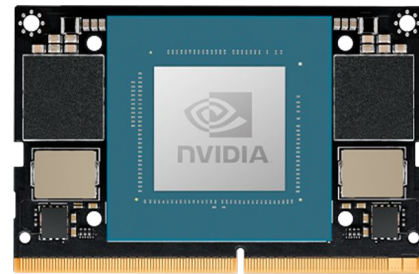
- Pre-requisites
- OpenShift Cluster provisioning
- ARM64 / AARCH64 MachineSet
- Persistent Storage
- AWS EFS Storage
- Sample Tekton pipelines
 - o Containerfile
 - o NodeJS
 - o Quarkus

Global Data Center CPU Market Revenue Share by Vendor

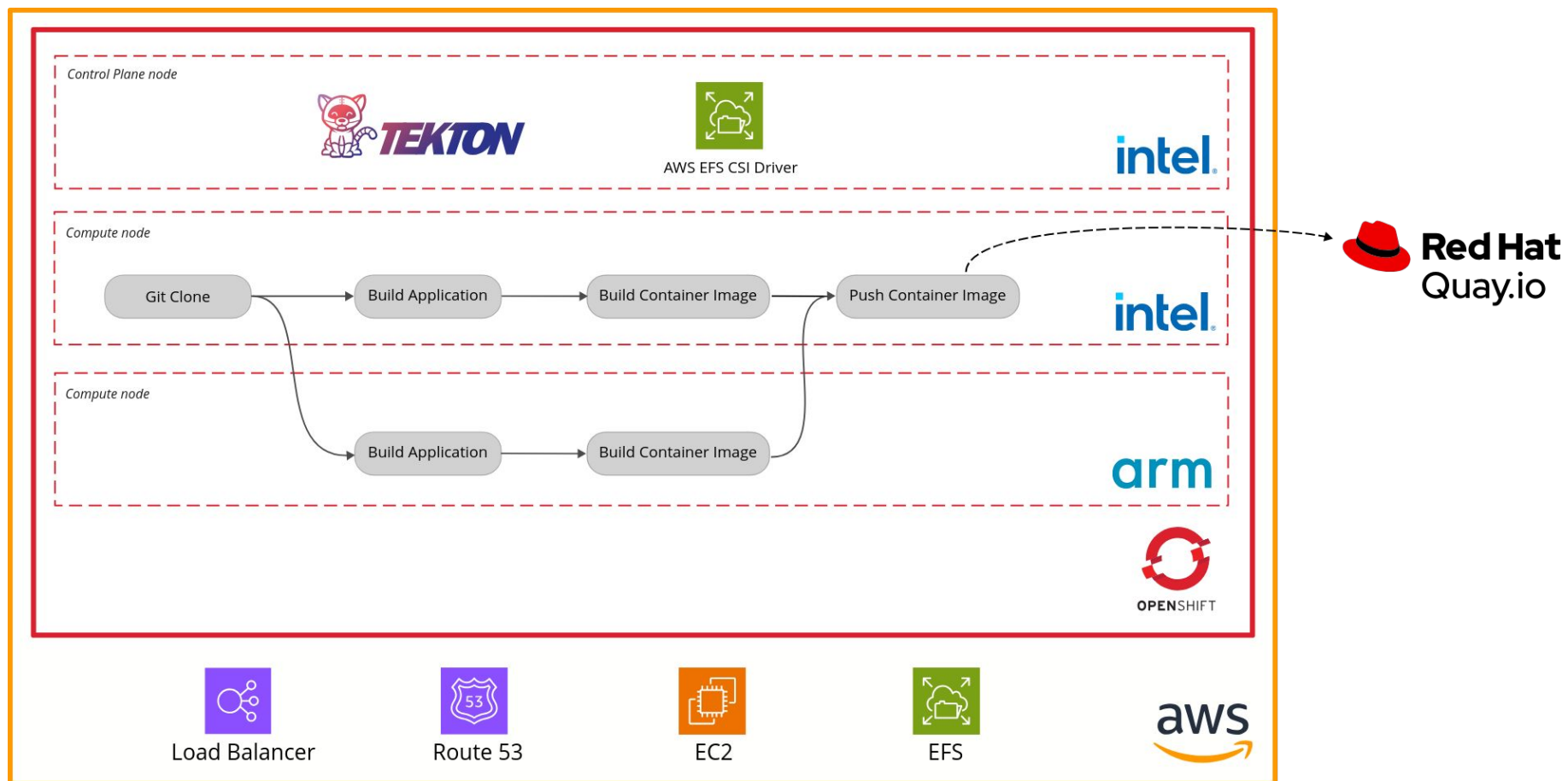


Source: Counterpoint Analysis

A wide variety of hardware uses a CPU architecture that is not x86!



Architecture to build multi-architecture container images



Further reading

- ▶ [Build multi-architecture container images with OpenShift, Buildah and Tekton on AWS](#)
- ▶ [Build multi-architecture container images with Kubernetes, Buildah, Tekton and Qemu](#)
- ▶ [Homelab: 2U server, short depth, with front IO, based on Ampere Altra and Asrock Rack ALTRAD8UD-1L2T motherboard](#)



Thank you

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