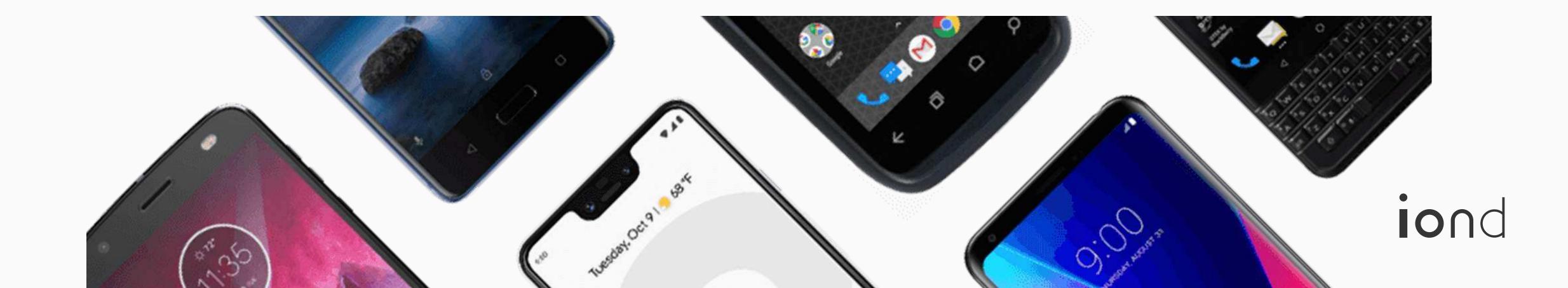




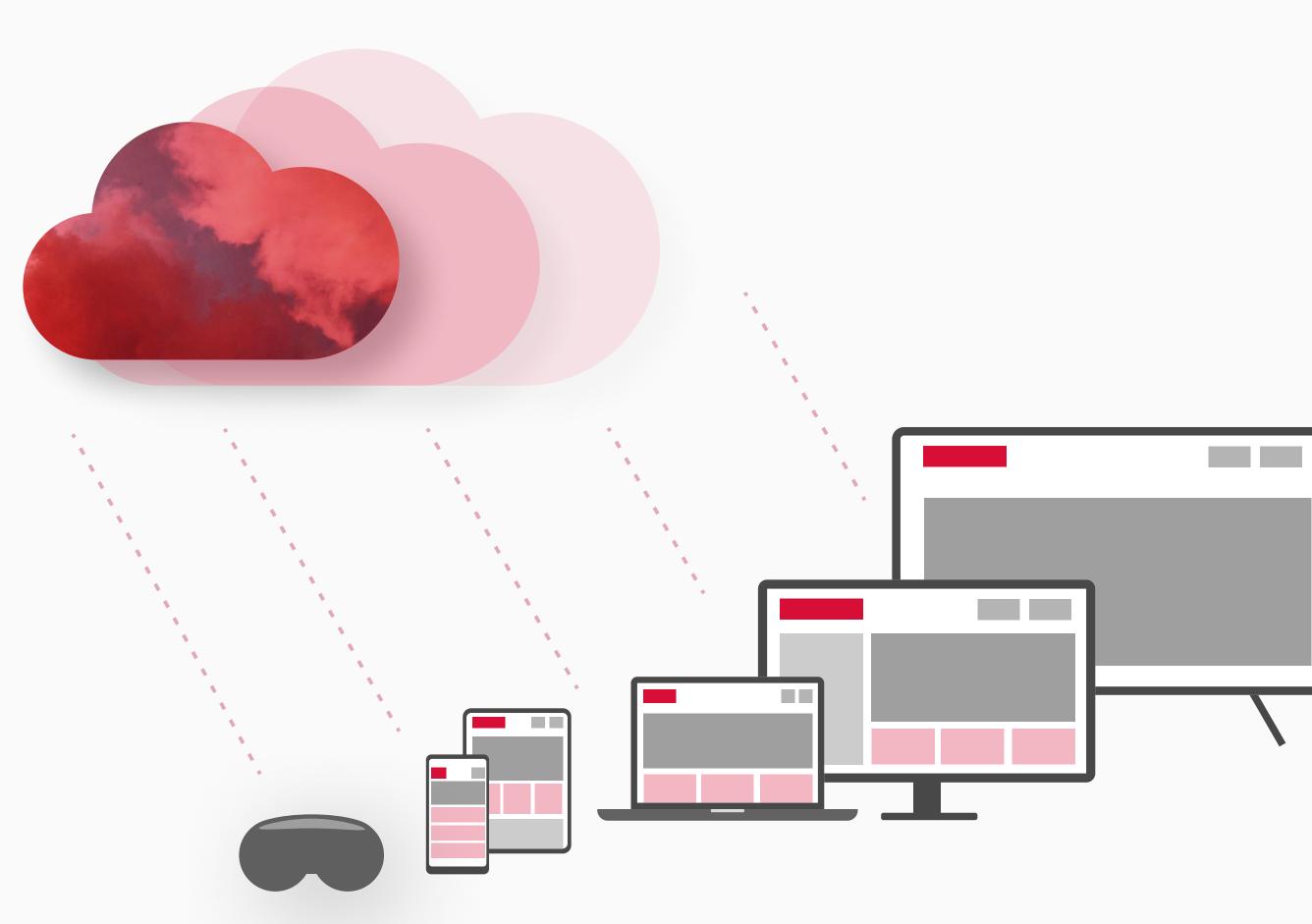
Motivation

- Data security
 - Avoid storing sensitive information on a phone
- Different use cases
 - Work apps, personal use apps, hobby-related apps, ...
- Employee device costs
 - Workplace phones are expensive to buy and maintain



Proposal

- Run the OS in the cloud
 - Optimise resource usage, performance, and latency
- Provide a thin-client on user's device
 - Lightweight app doesn't need highend hardware
- Re-create instances easily
 - Clone as many and tailor them to suit your needs

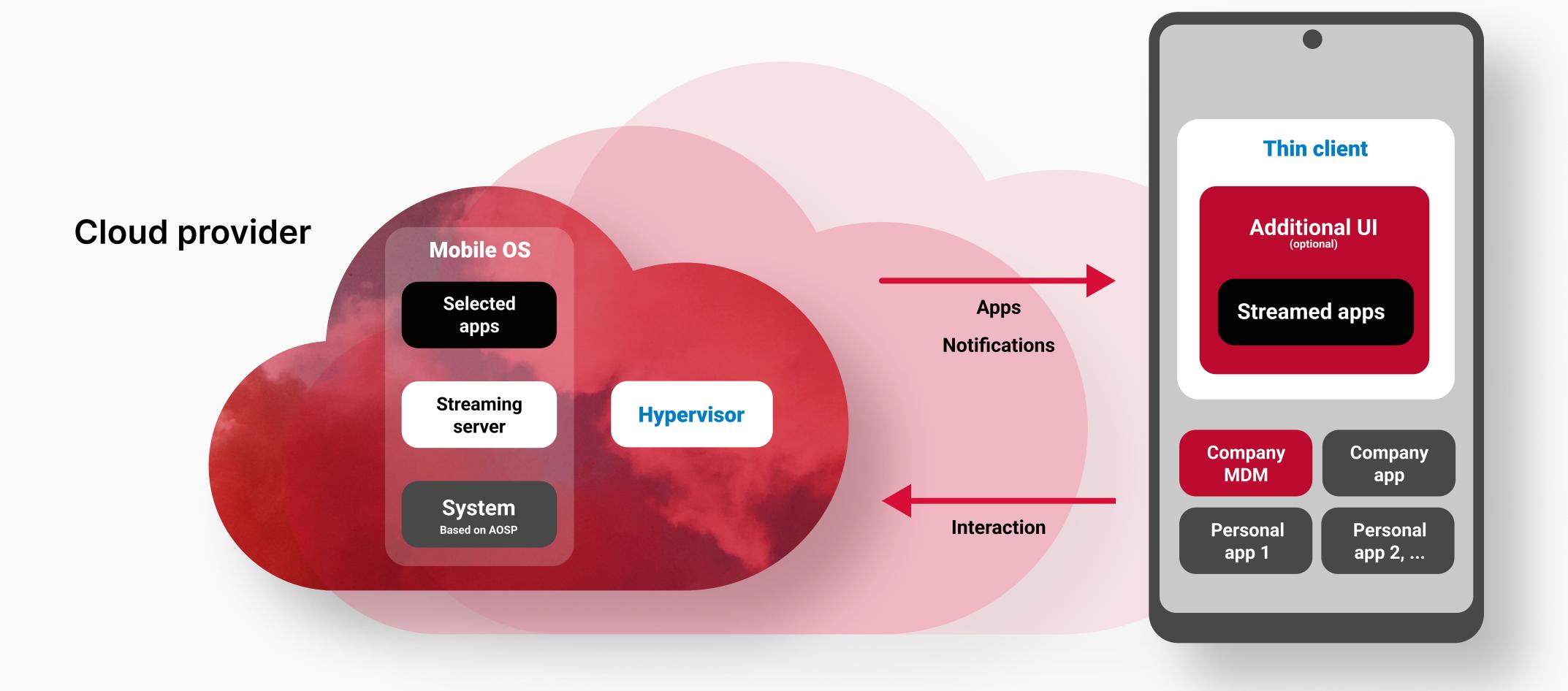




Architecture

User device

Android, iOS, (PC, Mac, Web), ...





Latency Round-trip

OS in User device the cloud iond Settings Retwork & internet Touch event Touch Network & internet 1-2 ms 2-50 ms (network latency) n Notifications Wait for the next draw cycle Drawing 60 - 150 10 ms ms ∠ 60 fps Drawing ∠ 60 fps Wait for the next draw cycle 10 ms **Encoding** Decoding Full frame <10 ms <5 ms Dropping frames 10-50 ms



Concept Demo



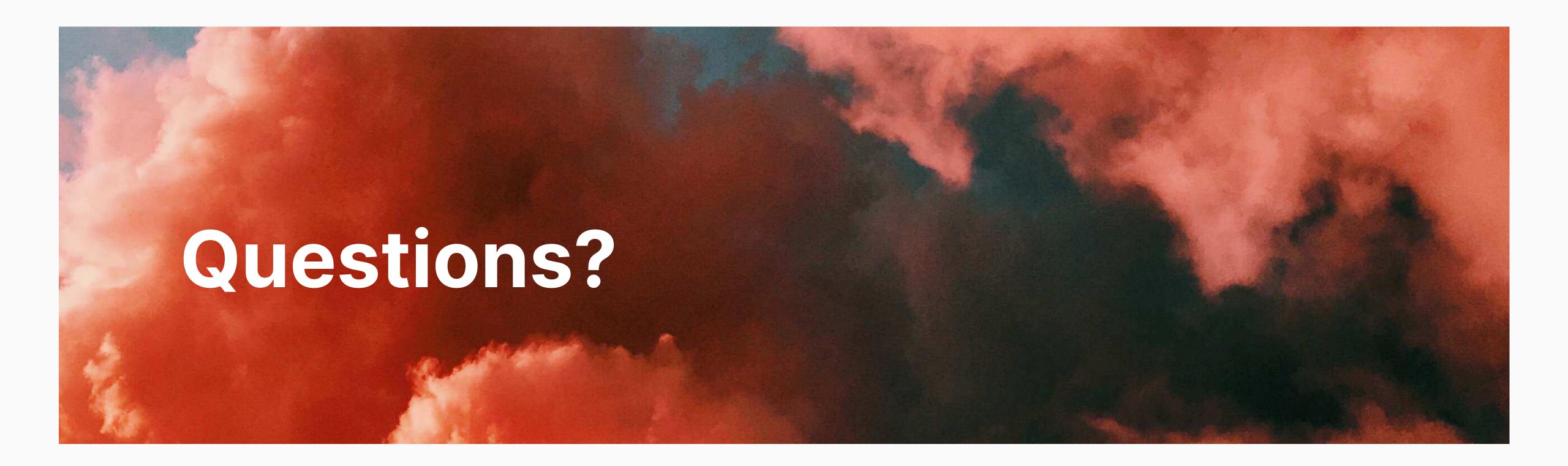


iond

OSS Technologies in Use

- redroid https://github.com/remote-android
- Linux Containers https://github.com/lxc
- Genymotion's Screen Copy https://github.com/Genymobile/scrcpy
- scrcpy-android https://gitlab.com/las2mile/scrcpy-android





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