

**THE CONFIDENTIAL COMPUTING STORY - PART II**  
**EARLY DEVELOPMENT ACROSS THE STACK**

# LIVING IN STILT HOUSES

**FABIANO FIDÊNCIO**

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**PALAFITAS DE MANAUS. 2017. ARAQUÉM ALCÂNTARA.**

# WHAT IS THIS CONVERSATION ABOUT?



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- GETTING SOME HELP FROM THE DISTROS



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- HOW PAOLO'S PRESENTATION IMPACTS "APPS"
- KNOWN CHALLENGES
- WORKAROUNDS AND THEIR DRAWBACKS
- GETTING SOME HELP FROM THE DISTROS
- OUR (NAIVE?) EXPECTATIONS FROM HW VENDORS



# HOW PAOLO'S PRESENTATION IMPACTS "APPS"





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- HIGH FLOW OF INCOMPATIBLE CHANGES



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- APP SUPPORT FOR DIFFERENT STACK VERSIONS



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- NON-RELATED BUG FIXES / FEATURES



# HOW PAOLO'S PRESENTATION IMPACTS "APPS"

- HIGH FLOW OF INCOMPATIBLE CHANGES
- APP SUPPORT FOR DIFFERENT STACK VERSIONS
- NON-RELATED BUG FIXES / FEATURES
- RELYING ON SOMETHING THAT WILL NEVER BE UPSTREAM



# KNOWN CHALLENGES



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- **HARDWARE DEVELOPMENT IS NOT FAST**



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- **TECHNOLOGIES INVOLVED ARE COMPLEX**
- **SOFTWARE ENABLEMENT CAN AND WILL TAKE YEARS**
- **THE AMOUNT OF MOVING PIECES IS HUGE**



# WORKAROUNDS ...



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# WORKAROUNDS ...

- DEVELOP ATOP A RELEASED VERSION



# WORKAROUNDS ...

- DEVELOP ATOP A RELEASED VERSION
- SHIP THE SOURCE TO THE CUSTOMERS



# WORKAROUNDS ...

- DEVELOP ATOP A RELEASED VERSION
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- LET CUSTOMERS HANDLE THE INTEGRATION



# WORKAROUNDS ...

- DEVELOP ATOP A RELEASED VERSION
- SHIP THE SOURCE TO THE CUSTOMERS
- LET CUSTOMERS HANDLE THE INTEGRATION
- LET CUSTOMERS HANDLE THE MAINTENANCE



# ... AND THEIR DRAWBACKS



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## ● MAINTENANCE NIGHTMARE





# ... AND THEIR DRAWBACKS

- MAINTENANCE NIGHTMARE
- BUILD YOUR OWN STACK



# ... AND THEIR DRAWBACKS

- MAINTENANCE NIGHTMARE
- BUILD YOUR OWN STACK
- LACK OF CONTRACTUAL SUPPORT



# ... AND THEIR DRAWBACKS

- MAINTENANCE NIGHTMARE
- BUILD YOUR OWN STACK
- LACK OF CONTRACTUAL SUPPORT
- LACK OF COMMUNICATION



# ... AND THEIR DRAWBACKS

- MAINTENANCE NIGHTMARE
- BUILD YOUR OWN STACK
- LACK OF CONTRACTUAL SUPPORT
- LACK OF COMMUNICATION
- DIFFERENCE IN EXPECTATIONS



# GETTING SOME HELP FROM THE DISTROS



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- DISTROS MAINTAINERS KNOW BETTER ABOUT THE DISTROS SPECIFICS



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- **EASY INTEGRATION WITH PRODUCTS BUILT ATOP OF THE DISTROS**



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- DISTROS MAINTAINERS (SHOULD) FOLLOW UPSTREAM CLOSELY
- EASY INSTALLABLE AND UPDATABLE PATH
- EASY INTEGRATION WITH PRODUCTS BUILT ATOP OF THE DISTROS
- IT IS FINE IF IT COMES AS A 3RD PARTY REPO



# OUR (NAIVE?) EXPECTATIONS FROM HW VENDORS



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    - **CONFIDENTIAL CONTAINERS**



# QUESTIONS / COMMENTS





**A PRODUCT IS NOT FULLY DEVELOPED UNLESS IT CAN BE  
EASILY AND WIDELY USED BY ENTERPRISE DISTROS!**