SUSE and Qualcomm’s Success Story with ARM

CAS1056

Michael “Griff” Griffith – IT Engineer, Staff, Qualcomm Incorporated
Gokhan Cetinkaya – Sales Engineer, SUSE
Introductions

Gokhan Cetinkaya

Gokhan Cetinkaya is a sales engineer at SUSE, based in San Diego, California.

He supports sales initiatives through client-specific solution design and technical consultations.

Over the past 15 years, he has held roles in training, systems administration and pre-sales engineering.

He started working for SUSE in 2013 in Istanbul, Turkey. He was offered a position in the United States two years later.

Passionate about gaming since the Commodore 64 and the Amiga.

You can reach him on LinkedIn: www.linkedin.com/in/gcetinkaya
Introductions

“Griff” Michael H. Griffith

Born at an early age, in a time before the internet, Griff got into Linux in the early noughties.

His first professional full-time gig was in the aircraft MRO (Maintenance, Repair, and Operations) and Logistics Business.

Eventually his journey led him to join the Unix Configuration Management group at Qualcomm.
Introductions

Why are we here to talk?

Our journey with SUSE began with SUSE 9 and has continued through various adventures to today.

We are here to discuss our personal tales and successes that the relationship between our two companies have provided.
Make ARM Servers Boring!
What Do We Need to Accomplish?

How to make it boring

Users want to work
• They don’t care about the architecture

Operations
• Want a consistent platform to service

If aarch64 looks “different”
• It won’t be used
Server Development Platform Phase

The prep

- Not in the hands of many individuals
- Custom kernels being built by SUSE to get the OS to boot
Raspberry Pi from SUSECON in DC

In the beginning there was the SUSE Raspberry Pi

• Released with SUSE 12.2
• Our initial compilations and testing of tools began here
• Vendors didn’t have hardware
  • We encouraged folks to just get started with a RPi
Benefits of Attending SUSECON
We achieve more, faster, when we are working together, rather than working alone.
Reference Evaluation Platform Phase

Things really get rolling

• SUSE 12.3 Beta
• There wasn’t a production OS ready
• Worked hand in hand with SUSE through the SUSE 12.3 beta to get the OS ready for our workflows
Reference Evaluation Platform Phase

Things really get rolling

• Processes and internal tools already in place from our work with the SUSE Pi
• As the beta continues, SUSE and Qualcomm worked in tandem to get other software vendors on board with aarch64
• SUSE 12.3 was on the front line of aarch64 Linux
What Did We Accomplish?

Is it boring now?

- **Users want to work**
  - Users get their work done just as they always have

- **Operations**
  - Operations were no different than before

- **If aarch64 looks “different”…**
  - An aarch64 server looks and behaves “normal”
“When you do things right,
People won’t be sure
You’ve done anything at all.”

- Futurama, Godfellas
Summary

Our relationship and joint effort

• Get a head start on development
• Iterate quickly through OS alpha and beta build candidates
• Encourage others to port their software to a new architecture
• Verify workflows
• Make it boring!
• Drink our own champagne!
Check Out These Talks

It’s Finally Time for ARM in the Datacenter – and Beyond
• Jay Kruemcke, Product Manager, SUSE
• Tuesday, April 2\textsuperscript{nd} 3:15-4:15pm @ 12 South 2

SUSE Raspberry Business Use Cases
• Rodolpho Pivetta Sabino, Software Engineer, SSYS Sistemas e Soluções
• Gabriel Cavalcante, IT Leader, SSYS
• Wednesday, April 03, 10:00 AM - 11:00 AM @ 12 South 1

Qualcomm’s Journey with SUSE: The Value of Enterprise Linux
• Mike Marion, IT Engineer, Sr. Staff, Qualcomm Incorporated
• Gokhan Cetinkaya, Sales Engineer, SUSE
• Wednesday, April 3\textsuperscript{rd} 3:15-4:15pm @ 5 Points 1
Be Excellent!
and
Thank You!

Gokhan Cetinkaya
Sales Engineer, SUSE
gokhan.cetinkaya@suse.com
LinkedIn: gctinkaya

Michael “Griff” Griffith
IT Engineer, Staff, Qualcomm Incorporated
griff@qualcomm.com
$socialmedia: @greenwatergriff
Unpublished Work of SUSE LLC. All Rights Reserved.
This work is an unpublished work and contains confidential, proprietary and trade secret information of SUSE LLC. Access to this work is restricted to SUSE employees who have a need to know to perform tasks within the scope of their assignments. No part of this work may be practiced, performed, copied, distributed, revised, modified, translated, abridged, condensed, expanded, collected, or adapted without the prior written consent of SUSE. Any use or exploitation of this work without authorization could subject the perpetrator to criminal and civil liability.

General Disclaimer
This document is not to be construed as a promise by any participating company to develop, deliver, or market a product. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. SUSE makes no representations or warranties with respect to the contents of this document, and specifically disclaims any express or implied warranties of merchantability or fitness for any particular purpose. The development, release, and timing of features or functionality described for SUSE products remains at the sole discretion of SUSE. Further, SUSE reserves the right to revise this document and to make changes to its content, at any time, without obligation to notify any person or entity of such revisions or changes. All SUSE marks referenced in this presentation are trademarks or registered trademarks of SUSE LLC. in the United States and other countries. All third-party trademarks are the property of their respective owners.