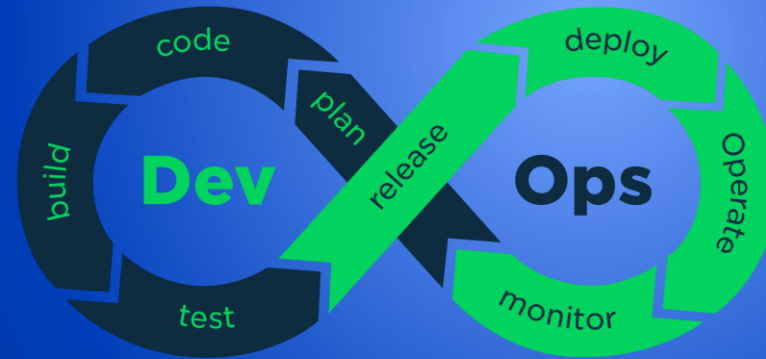


Bolstering Automation



GLOBAL PRODUCT DATA
INTEROPERABILITY
S U M M I T
2022



Dr. David Votaw - Automation Wizard

Presenters Bio – Dr. David Votaw

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- Software developer for 17 years – C# and Visual Studio are my weapons
 - Doctorate of Computer Science (DCS) in Information Assurance
 - DevOps was my main driver for research – [Dissertation Link](#)
 - I enjoy road trips, camping, movies, heavy metal, and video games... and my dog 🐶
- “There is no cheat code or quick ticket that can be bought, DevOps is hard, and only the prepared will reach their goals.” – David Votaw



Topics

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- Level-Setter
- Culture
- Pitfalls
- Agile
- DevOps Readiness
- Resources
- Automate Everything
- Pipeline
- Questions
- Links

All images are stock and referenced on the last slide

Level-Setter

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- DevOps is not a buzzword or something to take lightly
 - You cannot just say, yeah we have DevOps, so that is about as successful as those who say, yeah we are agile...
- A great deal of time is necessary for teams to be enabled to take advantage of DevOps.
- Dedicated resources are a requirement for success
 - Do not fall into the “many hats syndrome”



Culture

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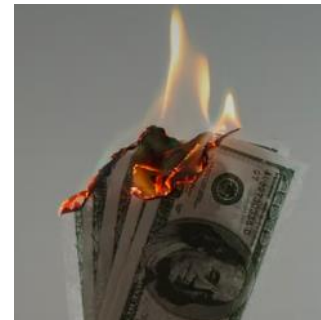
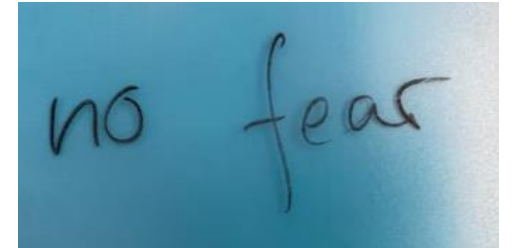
- Old-school meets new-school
 - Do not be Falsely Reporting Agile (FRAgile), only the Agilely strong can survive
 - There is no place for waterfall, it has served its purpose, and that ship has sailed.
- Failure is okay!
 - You will stumble and you will fall, and that is okay!
- Production is just a word



Pitfalls

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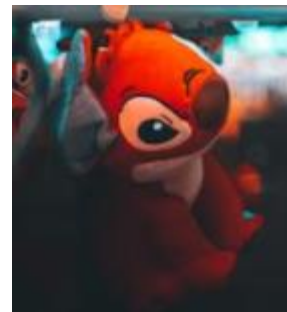
- Fear rules us all
 - Make mistakes, learn from failure, prepare for the worst
- Put metrics in place later
 - Cannot have old metrics in Agile
 - Leadership cannot expect road maps and milestones that is waterfall!
 - No magical metrics, if you cannot harvest this today in a manual fashion, how will you get them with automation?
- Change is okay
 - Change is hard work
 - Effort will need to be spent
 - Change is not cheap



Agile

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- Get trained and educated on the processes
 - Require Agile 100 and Agile 101 courses for everyone
 - From all stakeholders – from inception through deletion
- Get help from certified practitioners
 - Certified Scrum Masters
 - Certified Product Owners
 - Certified Scaled Agile Framework members (SAFe) for multiple teams
- Agile regiment is a necessity... practice what you preach!
 - Planning
 - Kickoffs
 - Demos
 - Closeouts
 - Retrospectives



DevOps Readiness

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- As suggested on the last slide, Agile is important
 - What is your DevOps readiness based on your agile maturity?
 - There are many agile surveys to get you started
 - Once you conquer agile, then and then only, is your DevOps journey unlocked.
- Rinse and repeat as with agile, get DevOps education and training
 - Seek certifications
 - Seek guidance from experts from within or externally
 - Get help, you are not alone



Resources

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- Dedicated resources
 - Time
 - Money
 - People
 - Innovation
 - Exploration
 - Collaboration
 - Research
 - Integration
 - Learning new things
 - Pioneering



Automate Everything!!

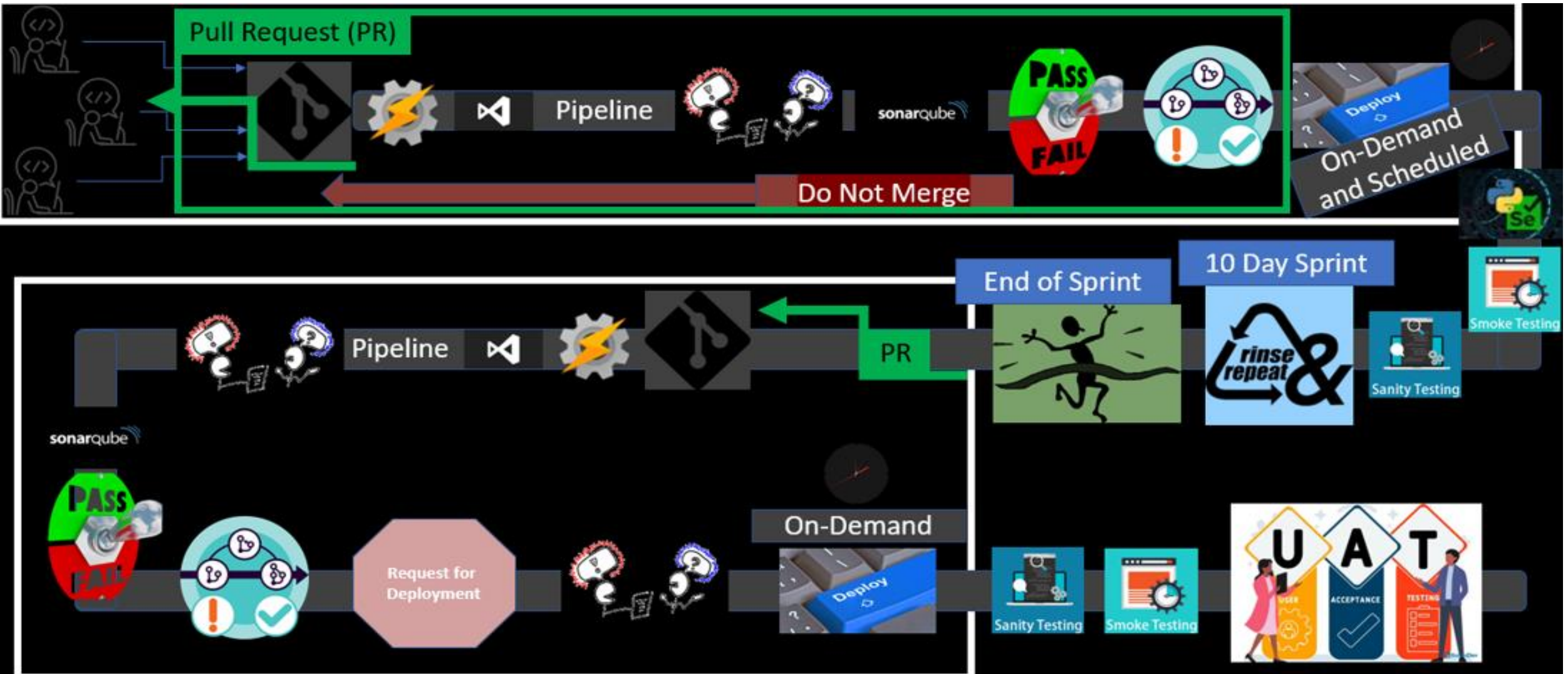
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- Now, with all that said and done, focus on DevOps, then and then only!
 - Code is ABLE
 - Compile-ABLE – Microsoft Build (MSBuild)
 - Build-ABLE – Business Modeler Integrated Development Environment (BMIDE)
 - Generate-ABLE– Code and output are generated
 - Package-ABLE – Teamcenter package is created
 - Scan-ABLE– The code is scanned with SonarQube (SQ), CPP Check
 - Merge-ABLE – Pre-merging of branches
 - Artifact-ABLE – Stored in AZDO/TFS/Nexus
 - Deploy-ABLE – TEM deploy dryrun, Deployment Center (DC) -diagnostics



Pipeline – Let it flow!

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Questions

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Links

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- Burning cash - <https://unsplash.com/photos/bIOLCO2K4M0>
- Clocks - <https://unsplash.com/photos/FlHdnPO6dlw>
- Cookie - <https://unsplash.com/photos/z8kriatLFdA>
- Cup of water - <https://unsplash.com/photos/aFbow3dw8QA>
- DevOps - <https://devopedia.org/devops>
- Evolution - <https://unsplash.com/photos/xJY-7gtC38o>
- Fear - https://unsplash.com/photos/NJ7_RKmfXw
- Horse - <https://unsplash.com/photos/EXuKQaf3Ei8>
- Learn from failure - <https://unsplash.com/photos/ehKaEaZ5VuU>
- Love to learn - https://unsplash.com/photos/WE_Kv_ZB1I0
- Many hats - <https://unsplash.com/photos/vU2MmvDCmUo>
- Matrix code - https://unsplash.com/photos/tiSE_paTt0A
- Own your error - <https://unsplash.com/photos/XWar9MbNGUY>
- Pipeline - drawn and designed by David Votaw
- Puzzle piece - <https://unsplash.com/photos/DnXqvmS0eXM>
- Single hat - <https://unsplash.com/photos/zVycYmcbIDY>
- Skull - <https://unsplash.com/photos/1PtM6b85sdw>
- Slip - <https://unsplash.com/photos/pzJgANvTaa8>
- Stitch - <https://unsplash.com/photos/xEbwEg6rKh4>
- Questions - <https://unsplash.com/photos/AoqqGAqrLpU>
- Yoda - <https://unsplash.com/photos/f50UNtxoeil>