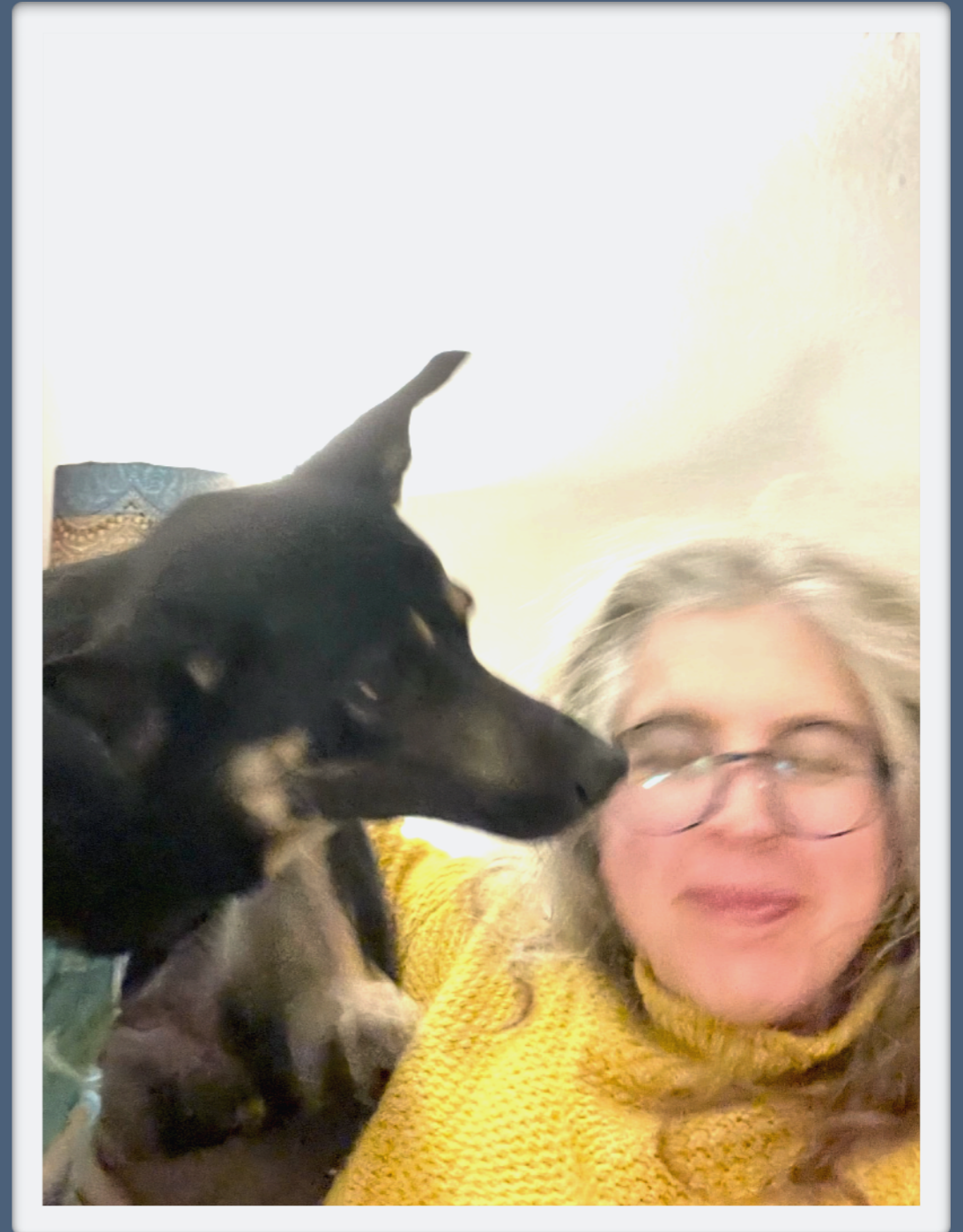


DevOps in a Rocket Factory

Bringing Modern Tooling to Legacy Workflows

social

- <https://github.com/gwynforthewyn>
- <https://playtechnique.io>
- gwyn@playtechnique.io
- <https://www.linkedin.com/in/gwendolyn-james>



Ursa Major



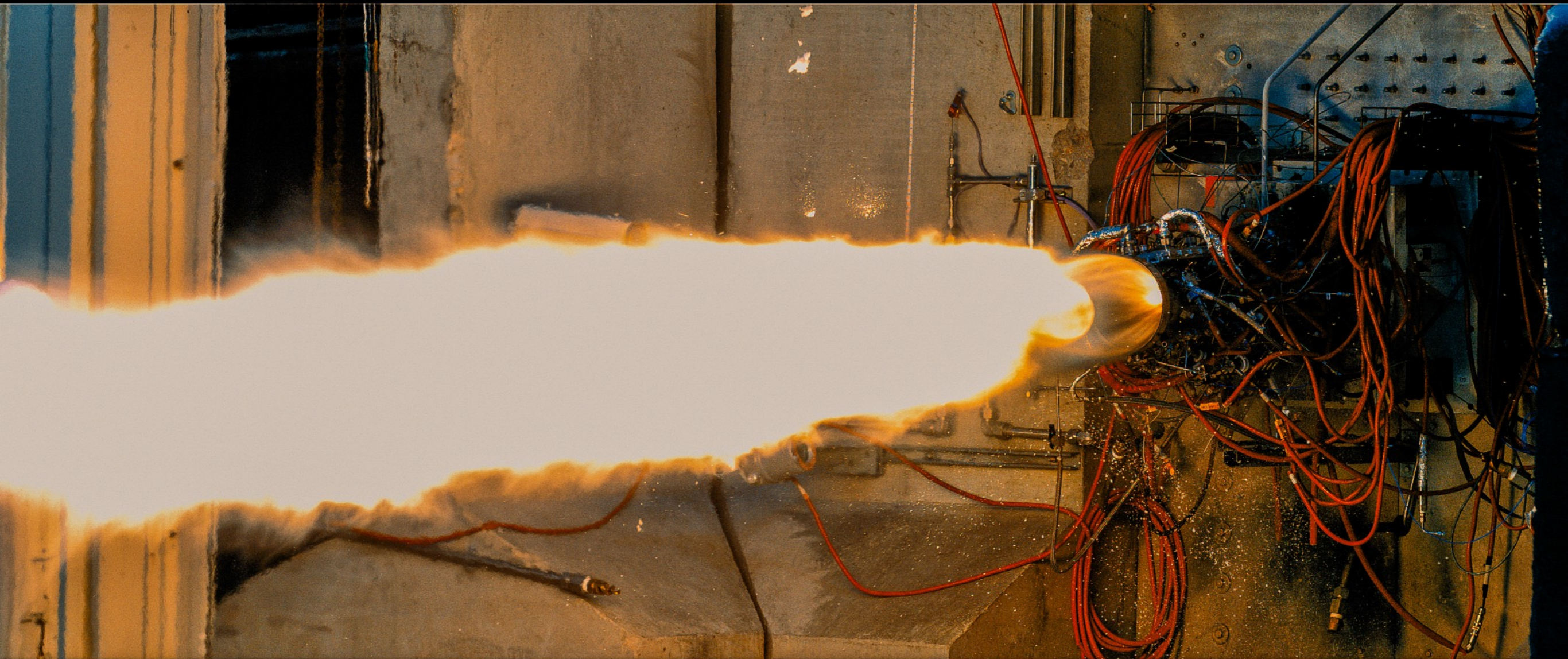
Solid Rocket Motor Development

Ursa Major



Draper Hot Fire

Ursa Major



Hadley Hot Fire

Ursa Major



Hadley Test Fire in Aesthetic Conditions

Technical Practices

Removing the old "run a Make command on your laptop" deployment strategy and replacing with zero-click gitops deployments

Moved hosting away from docker swarm plus a thousand sins in Bash into Kubernetes

Making rollbacks painless

Overcoming technical issues such as automating DNS name registration etc

Cultural Practices

Taking responsibility for teaching people new skills

Overcoming technical issues such as automating DNS name registration

Showing up to standup with a notebook and notes

Always emphasising that the team is in it together

Pulling teammates from their desks to have lunch together

Being unashamed of enjoying that the work is hard and requires effort

Putting up a motivational poster

Cultural Practices

Definitely DevOps

Teaching people new skills

Overcoming technical issues that directly improved developer productivity and team velocity, such as automating DNS name registration, and providing rapid-deployment environments

Is This Even DevOps?

Showing up to standup and being clear and specific about the work, with notes

Inviting people to sit together at lunch, and talking to them

Being unashamed of enjoying that the work is hard and requires effort

Putting up a motivational poster

Plausibly DevOps

Emphasising that the team is in it together

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BUILD THIS ONE



Pathological Organization	Bureaucratic Organization	Generative Organization
Information is hidden	Information may be ignored	Information is actively sought
Messengers are "shot"	Messengers are tolerated	Messengers are trained
Responsibilities are shirked	Responsibilities are compartmented	Responsibilities are shared
Bridging between teams is discouraged	Bridging between teams allowed but discouraged	Bridging between teams is rewarded
Failure is covered up	Organization is just, merciful	Failure causes inquiry
New ideas are crushed	New ideas create problems	New ideas are welcomed

- table from DevOps Handbook ch 4.

The Cult of Done Manifesto

There are three states of being.

Not knowing, action and completion

Accept that everything is a draft. It helps to get it done

There is no editing stage

Pretending you know what you're doing is almost the same as knowing what you are doing, so just accept that you know what you're doing even if you don't and do it

Banish procrastination

If you wait more than a week to get an idea done, abandon it

The point of being done is not to finish but to get other things done

Once you're done you can throw it away

Laugh at perfection. It's boring

and keeps you from being done

People without dirty hands are wrong

Doing something makes you right

Failure counts as done. So do mistakes

Destruction is a variant of done

If you have an idea and publish it on the internet, that counts as a ghost of done

Done is the engine

of more

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Slide of Links

"assessing and strengthening the manufacturing and supply chain resiliency"

<https://media.defense.gov/2018/Oct/05/2002048904/-1/-1/1/ASSESSING-AND-STRENGTHENING-THE-MANUFACTURING-AND-DEFENSE-INDUSTRIAL-BASE-AND-SUPPLY-CHAIN-RESILIENCY.PDF>

"detecting agile BS"

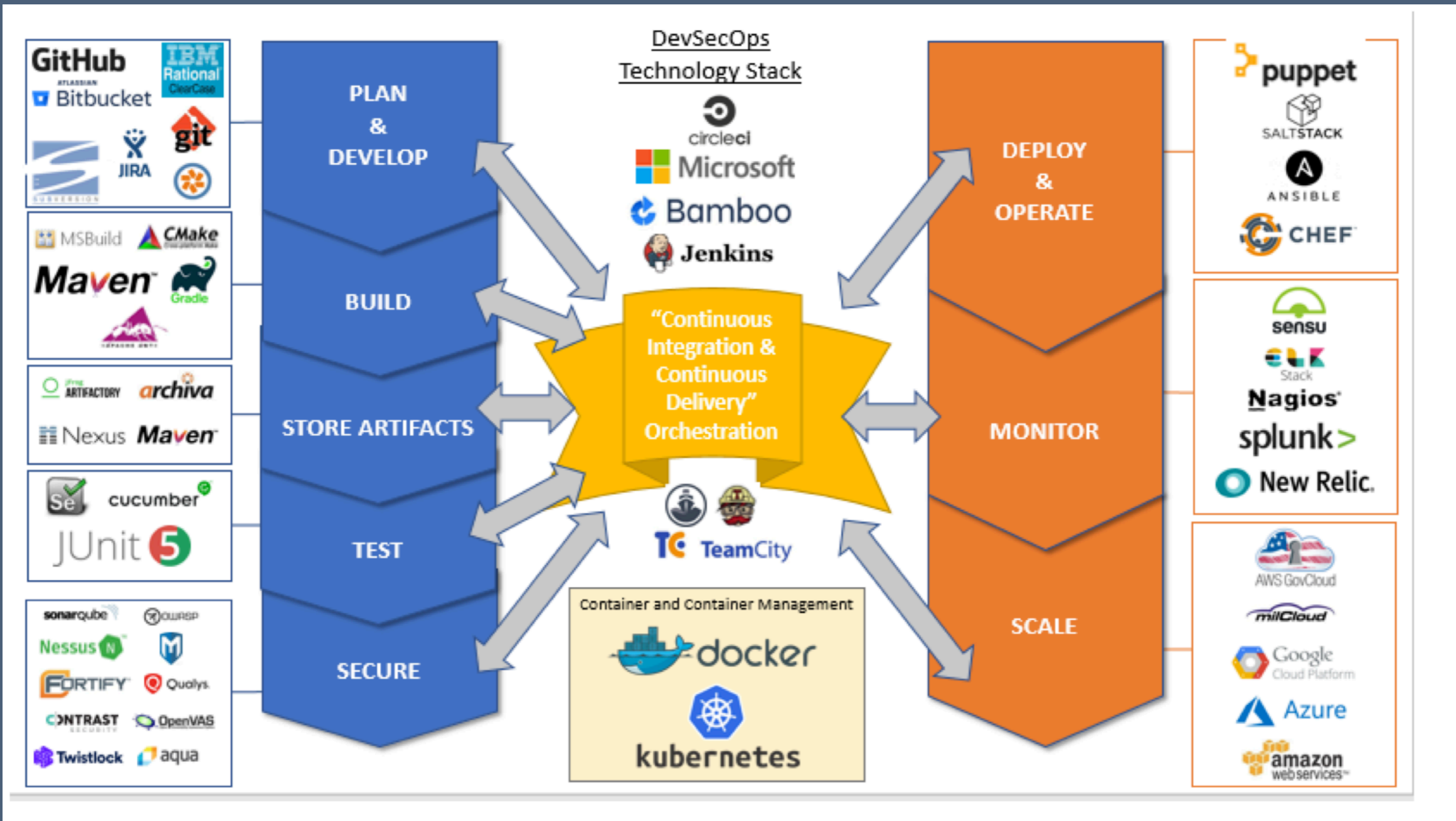
https://media.defense.gov/2018/Oct/09/2002049591/-1/-1/0/DIB_DETECTING_AGILE_BS_2018.10.05.PDF

"how to justify your budget when doing devsecops"

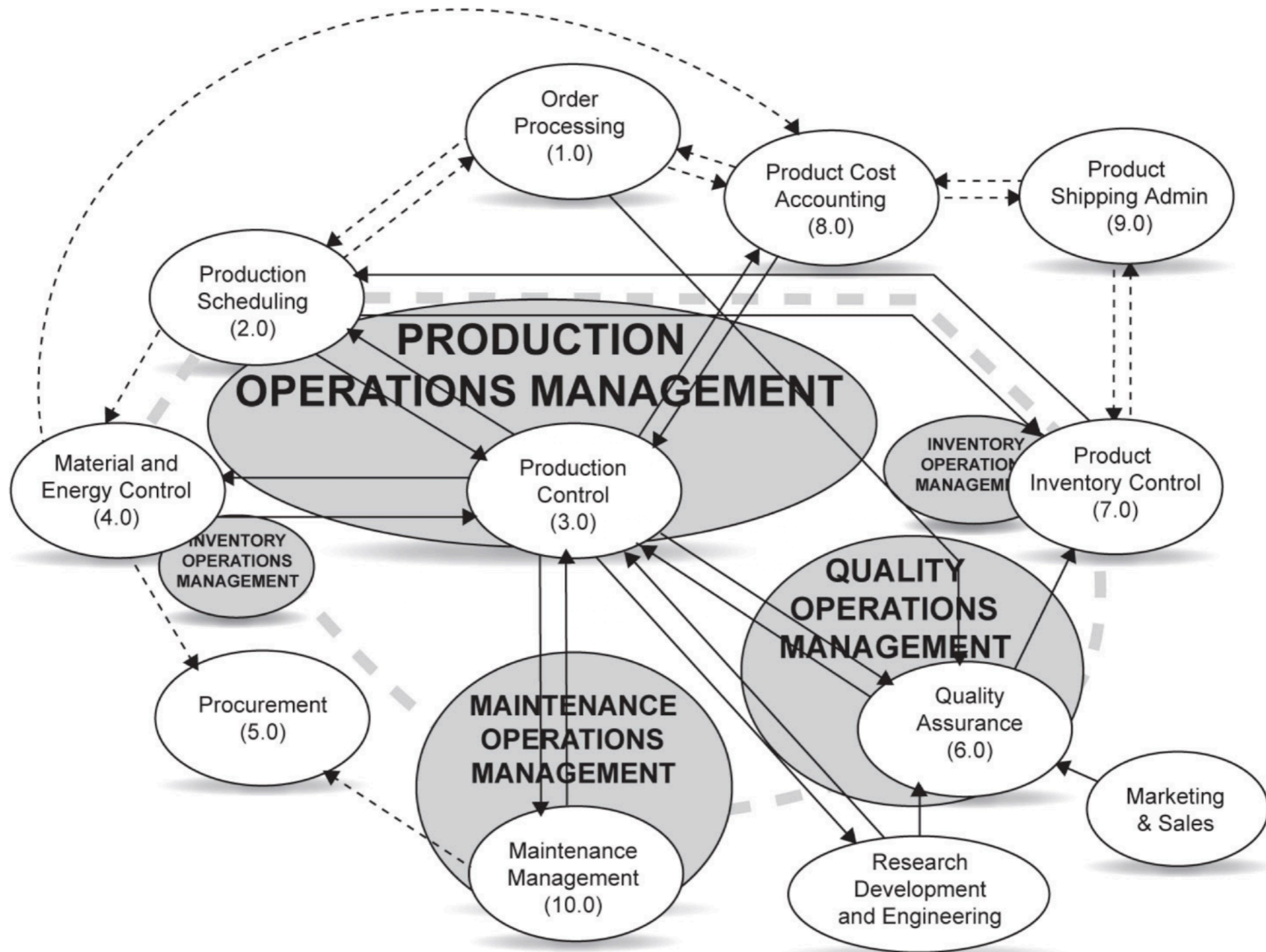
<https://media.defense.gov/2019/May/02/2002127287/-1/-1/0/HOWTOJUSTIFYYOURBUDGETWHENDOINGDEVSECOPS.PDF>

"is your development environment holding you back?"

<https://media.defense.gov/2019/May/02/2002127289/-1/-1/0/ISYOURDEVELOPMENTENVIRONMENTHOLDINGYOUBACKADIBGUIDEFORTHEACQUISITIONCOMMUNITY.PDF>



from - https://media.defense.gov/2018/Oct/09/2002049591/-1/-1/0/DIB_DETECTING_AGILE_BS_2018.10.05.PDF



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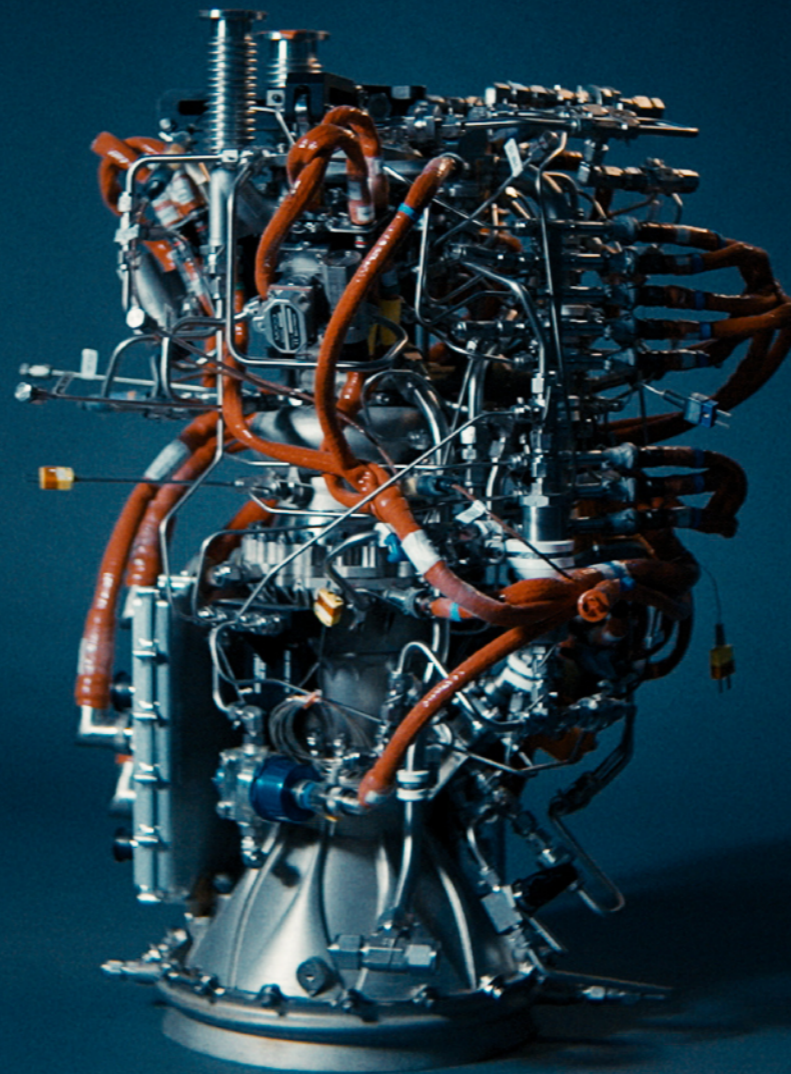
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End



Hadley, in repose