



William Manning

Official Hiptech Translator

Native proficiency in English and Bad English
Fluent in Thought Leader gibberish
Has a secret bunker for the robot apocalypse
Professional Tinfoil Hat Haberdasher

Disclaimer: absolutely none of the above is true.





Everybody's software must be releasable at absolutely any time

Everyone must have 100% test automation

We do Continuous Security well.

Your greatest threat is an outage.

Not an employee.

VMs are the enemy of DevOps. This is where you must focus your innovation.

You are a beautiful unique snowflake, as are your problems.

No vendor could possibly understand them.

Our company is based in SF because that's where the best engineers are.



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William Manning

Senior Solutions Architect

@williammanning



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BARUCH SADOGURSKY

CHIEF STICKER OFFICER

(ALSO ... OF DEVELOPER ADVOCACY)



JBARUCH@JFROG.COM

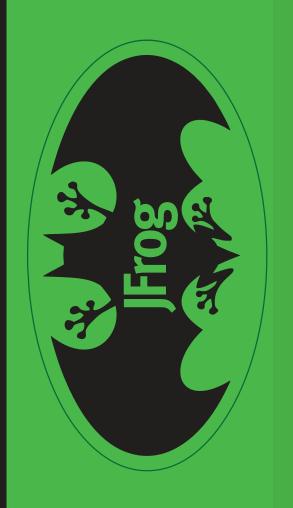


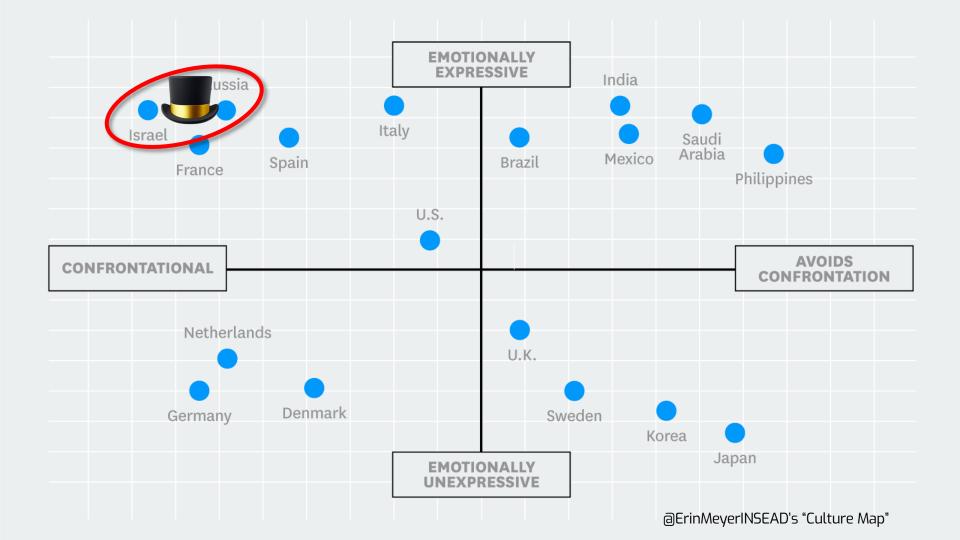
@JBARUCH



+1(408)890-9281







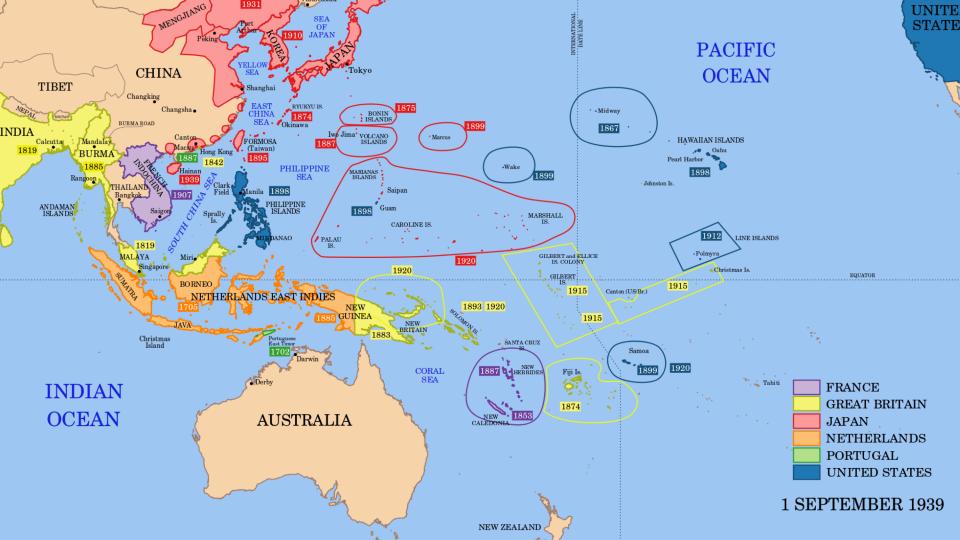
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All the links!
Comments, Ratings

Raffle!









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 A Minify Your SVGs (victorzhou.com) 124 points by vzhou842 4 hours ago | hide | 31 comments

12. A The "terrible" 3 cent MCU - a short survey of sub \$0.10 microcontrollers (cpldcpu.wordpress.com) 50 points by jerryr 2 hours ago | hide | 11 comments 13. A Launch HN: Boost Biomes (YC S19) - Microbes for better crop yields, shelf life

12 points by jbacher 56 minutes ago | hide | 2 comments 14. A Eleven Oday bugs affect OS running on over 2B IoT devices (armis.com) 41 points by phantom_oracle 3 hours ago | hide | 21 comments

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22 points by makeee 35 minutes ago | hide | 13 comments A Legit-Looking iPhone Lightning Cables Will Hijack Your Computer (vice.com)

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The Four Questions

- 1. Is my organization/team ready to adopt a new tech?
- 2. Is it even a good tech?
- 3. What problem do I solve by using this tech?
- 4. Will solving this problem help my organization?

1. Is my organization /team ready to adopt a new tech?

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"A maturity model is a tool that helps people assess the current effectiveness of a person or group and supports figuring out what capabilities they need to acquire next in order to improve their performance.

In many circles maturity models have gained a bad reputation, but although they can easily be misused, in proper hands they can be helpful."

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While maturity models are very popular in the industry, we cannot stress enough that maturity models are not the appropriate tool to use or mindset to have. Instead, shifting to a capabilities model of measurement is essential for organizations wanting to accelerate software delivery.

Nicole Forsgren, Jezz Hamble, Gene Kim

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Bad Maturity Models are Bad.

Bad Maturity Models Good Maturity Models



- Prescribed by the book One size doesn't fit all
- Checkboxes for tools Focus on outcomes
- Write and forget Constantly evolve

Maturity model components

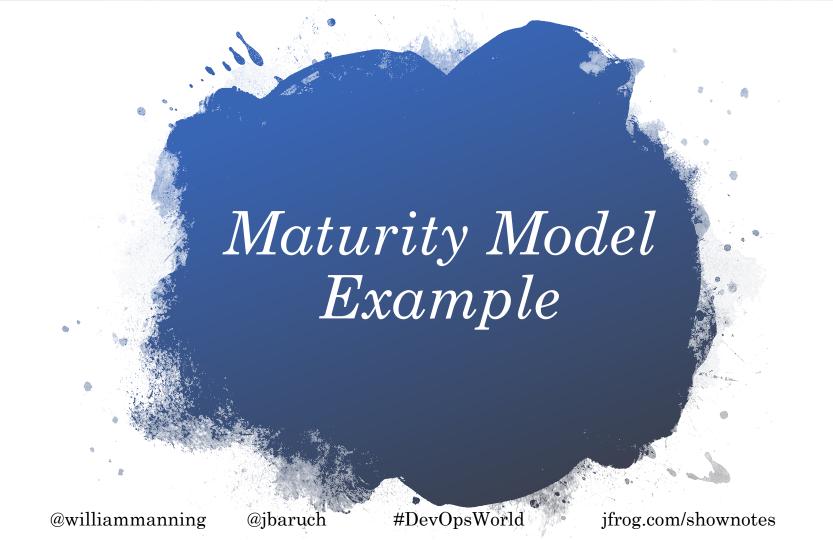
Evaluation factors

Scoring methodology

Self assessment vs 3rd party assessment capability

Progress tracking

Visualization





Simple model

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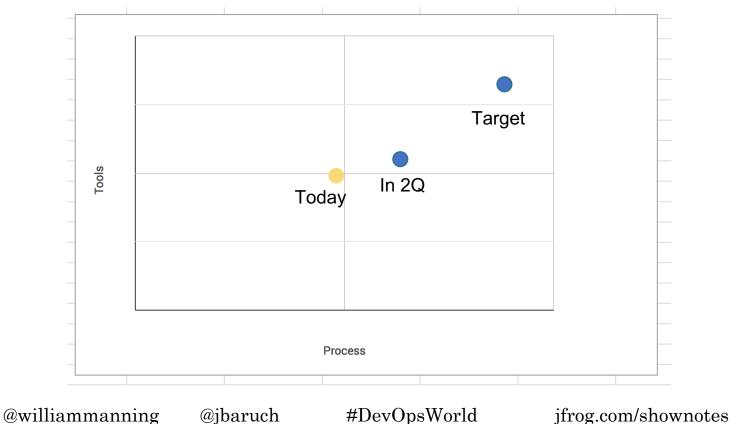


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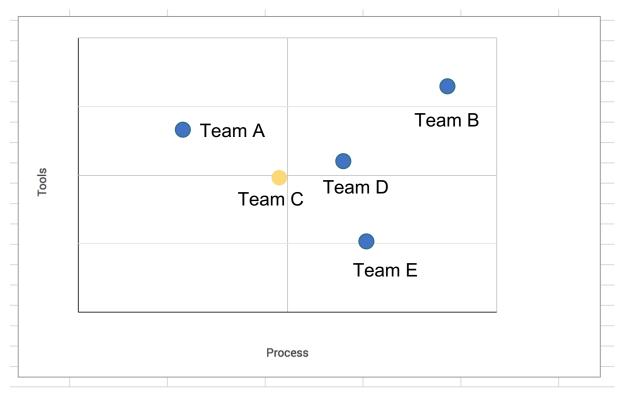
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Progress planning



Leader board



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D01	DevOps	On Demand Releases	Tool	Builds are configured to publish and consume artifacts from a artifact management system in a consumable format	me	 Artifacts are be environment (ba versioning, integ 	Partial	
					at	artifacts can be a	ublished in a way where intermediate aged and managed, and final artifacts thin required policy guidelines	Yes
						 Artifacts are published in a standard consumable format (e.g. Maven 2, Docker Registry,) Artifacts when published are associated with sufficient meta data that can provide consumers with information about the build record/environment/tools and country of origin used during publishing 		Yes
								Yes
						•	ncies of artifacts that originated from a onment are consumed from a local ld machine	Yes
						■ Remote artifacts are hosted/proxied from a network friendly location that introduces limited latency when artifacts can't be pulled from local cache		Partial
							riginate from outside the company are sufficient meta data to verify source e artifact	Partial
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D04	DevOp s	On Demand Releases	Process	Build artifacts that are released to customersare managed and governed	 Artifacts pass all necessary quality checks and tests prior to promotion to release 	Yes
					 Release artifacts are the same artifact that was tested in the continuous delivery process, and not new builds specifically intended for release 	Partial
					 Release process has been modeled using cycle time analysis and unnecessary wait time has been eliminated 	Yes
					 Releasing software to production is integrated intothecontinuous delivery processfollowing all applicable IT governance requirements 	Yes
					 Release can be delivered to production within a timeframe that meets desired cycle time targets 	Yes

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egory	▼ Criticality	Bench	mark TODAY	▼ 24 motni	from now
Organizational Effectiveness	Must Have	O	100	22 🕒	75
Architectural Alignment	Should Have	Ö	83 🖜	32 🕒	60
Continuous Integration	Must Have	ŏ	90 🍑	36 🔾	86
Continuous Delivery of product feature	Should Have	0	92 🕙	35 🔾	86
Unit/Functional Test Automation	Must Have	0	100	25 🕒	72
Automated System Test & Health Check	Must Have	•	71 🔴	22 🕕	59
Everything as Code	Should Have	0	56 ●	22 🕕	52
Brand-Directed Initiatives	Must Have	0	100 🍑	25 🕒	80
Infrastructure Delivery (IAAS, PAAS)	Must Have	0	98 🔴	27 🕒	82
SaaS Services (APAAS / OSS Backing Svcs) Must Have	•	81 🔴	33 Incomple	te
BSS Automation & Integrations	Must Have	0	93 🔴	22 🕕	49
Service Introduction	Must Have	0	100 🔴	25 🕘	37
Operating Model	Must Have	0	93 🔴	23 🕒	70
Compliance Elements	Nice to have	•	79 🔴	21 🕙	24
FedRAMP Elements	Nice to have	0	100	0	0
Container as Best Practice	Should have	0	96 🔴	23 🔾	100

Account for different teams' priorities

Feature Weight	V	Description of Category	Engineering Perspective	▼ Ops Perspective	Company Perspsective
					Single product, SaaS-native startup.
Description of Use Case ->					
		The team is able to deliver newly relevant (or differentiating) capabilities to the market quickly, regardless of any prior			
01. Agile Development		roadmap.	Must Have	Not relevant	Must Have
02. Organizational Effectiveness		The organization (Dev + Ops) works as a single virtual team, regardless of the actual reporting structure.	Must Have	Must Have	Must Have
		Product / Service is aligned for efficient delivery as SaaS. (Includes multi-tenant architectures and/or multi-instance			
03. Architectural Alignment		architecture; container support). How much architectural debt exists in the product/service	Must Have	Not relevant	Should Have
		Ability to integrate development changes into a "deliverable" component. As defined in "Modern Software Factory as	a		
04. Continuous Integration		Service"	Must Have	Not relevant	Must Have
-					
05. Continuous Delivery of produ	uct				
feature	100	Ability to deliver features into production with minimal impedence by process	Not relevant	Must Have	Should Have
reature		ribinity to delite interpretation into production that minimum impacts and production into	11011010101	Widowing	STIGULATION 2
		Unit est coverage of code is comprehensive enough to allow for functionality to be delivered into production. Poor cod	ie		
00 11 11/5 11 17 14 1		quality/high technical debt drives cost of Ops and CX. Functional test coverage of code is comprehensive enough to			
06. Unit/Functional Test Automa	ition	allow for functionality to be delivered into production. Poor code quality/high technical debt drives cost of Ops and CX	. Must Have	Not relevant	Must Have
		Quality automatica includes dissiplines that are not "functional" such as acquity, usability, performance at a Decree	da		
07. Automated System Test & He	aalth	Quality automation includes disciplines that are not "functional", such as security, usability, performance, etc. Poor coc	je e		
Check	editri	quality/high technical debt drives cost of Ops and CX. Acquisition and construction of test data is automated and comprehensive. Heavyweight test processes such as security scanning and IAST are automated as much as practical.	Must Have	Not relevant	Must Have
Check		comprehensive. Reavyweight test processes such as security scanning and MS1 are automated as much as practical.	iviust nave	NOT relevant	Wiust nave

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Model definition example

System config as Code

The infrastructure configuration is managed as code - e.g. no manual processes for configuring/setting up/ infrastructure.

Differentiating: Infrastructure operates without any manual processes. All changes to the infrastructure or infrastructure capabilities are done through automation and policy only. Complete: Infrastructure operates without any manual processes. Some infrequent administrative activities may be initiated manually (although the activities themselves must be automated). Partial (Most): Infrastructure operates without any manual processes. Some infrequent administrative activities may be manual, pending automation.

Partial (Much): Infrastructure operates with significant automation. Some processes still manual; pending automation.

Partial (Some): Infrastructure requires significant care and feeding. Many processes still manual; pending automation.

No Support: While some functions may be automated, they are generally kicked-off manually; and many functions are still fully manual. Large backlog of automation items.

Applying maturity models: DOs and DONT's

Only use primary colors

Involve your teams in the model definition

Let team self assess first and then assess together

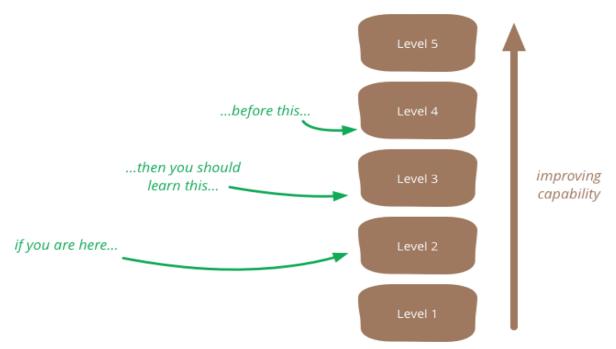
Partner with forward looking teams first

Remember being at 100% is not a goal the model has to have a stretch goal

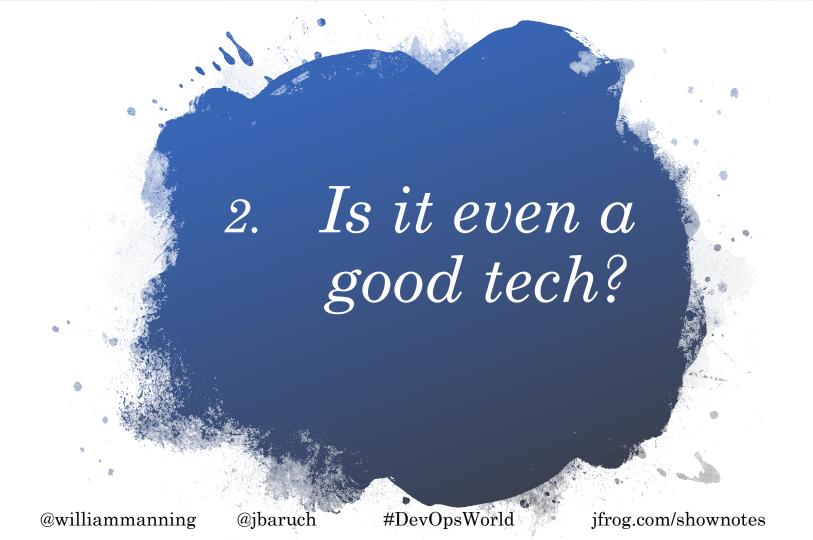
Evolve the model from time to time

And

Our message is:



https://martinfowler.com/bliki/MaturityModel.html



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Figure 1. Magic Quadrant for Public Cloud Infrastructure Managed Service Providers, Worldwide

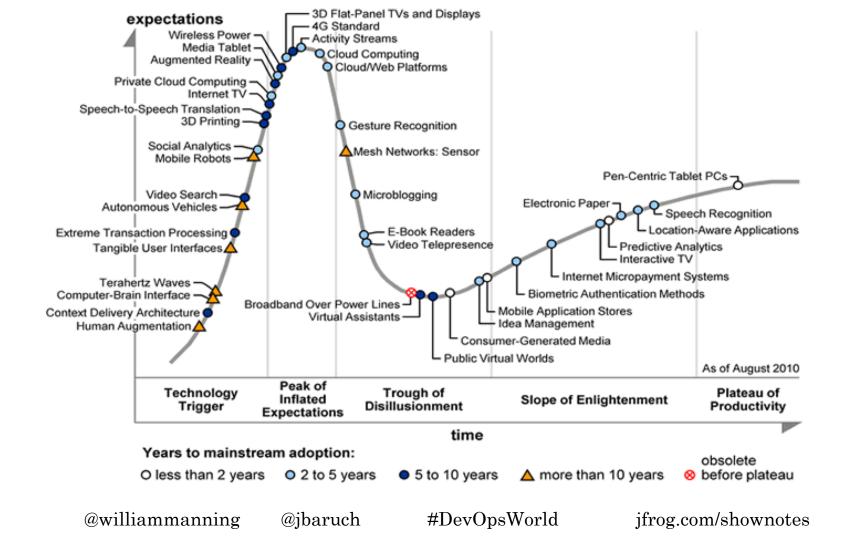


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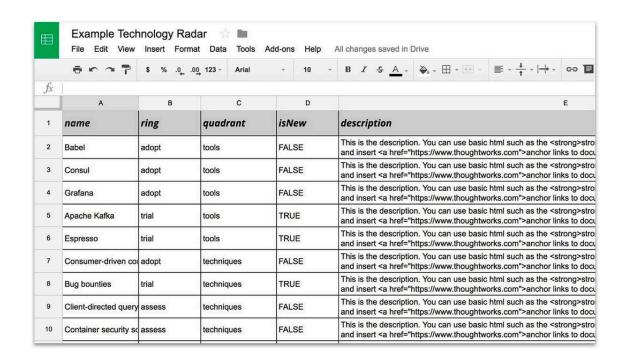
Select an area to explore



Build your own Radar

- 1. Is my organization/team ready to adopt a new tech?
- 2. Is it even a good tech for our team?
- 3. What problem do I solve by using this tech?
- 4. Will solving this problem help my organization?

Build your own radar!



Thank you very much!

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