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Everybody's software must be releasable at absolutely any time

Everyone must have 100% test automation

We do Continuous Security well.

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Not an employee.

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

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CHIEF STICKER OFFICER

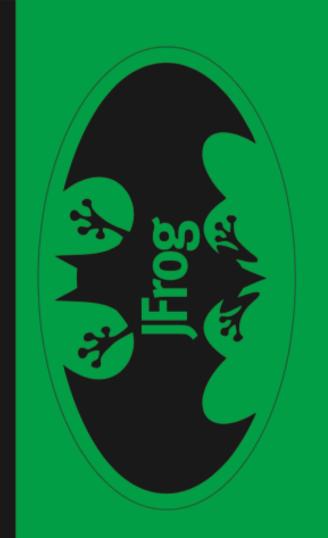
(ALSO, HEAD OF DEVELOPER RELATIONS)





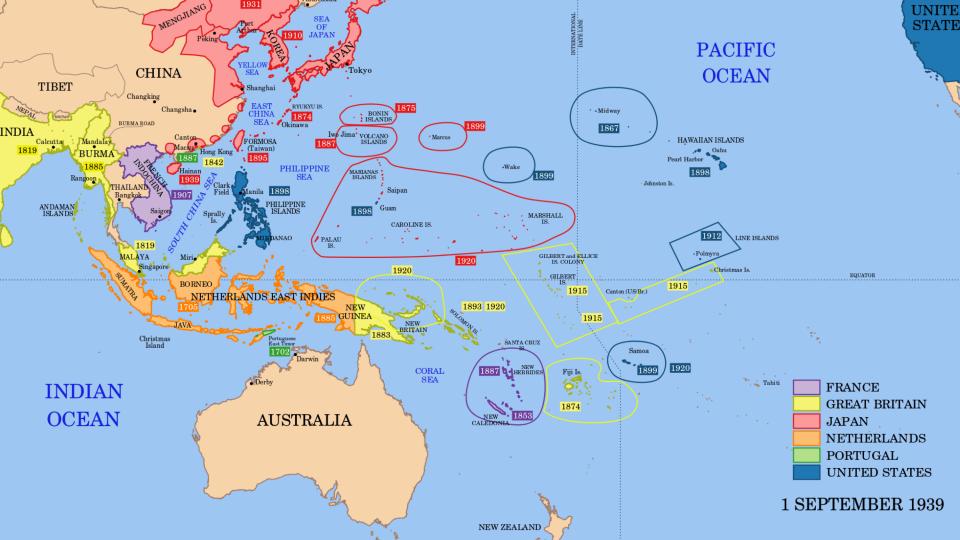










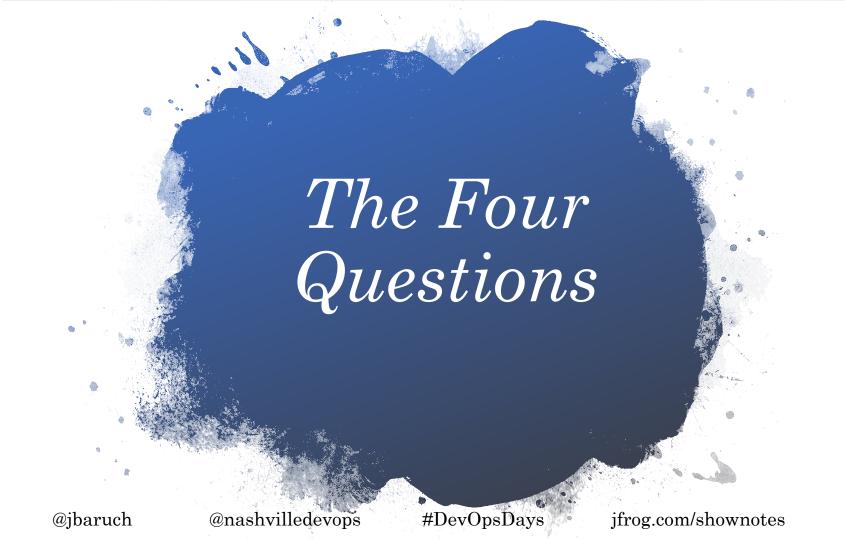




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The Four Questions

- 1. Is my organization/team ready to adopt a new tech?
- 2. Is it even a good tech?
- 3. What do I gain from adopting this tech?
- 4. Is this tech a good solution to my problem?

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Introducing maturity models

"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."

Martin Fowler



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Martin Fowler



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

Maturity Models are Bad.

Bad Maturity Models Good Maturity Models Goal **Process** Prescribed by the book One size doesn't fit all Checkboxes for tools Focus on outcomes Write and forget Constantly evolve

Maturity model components

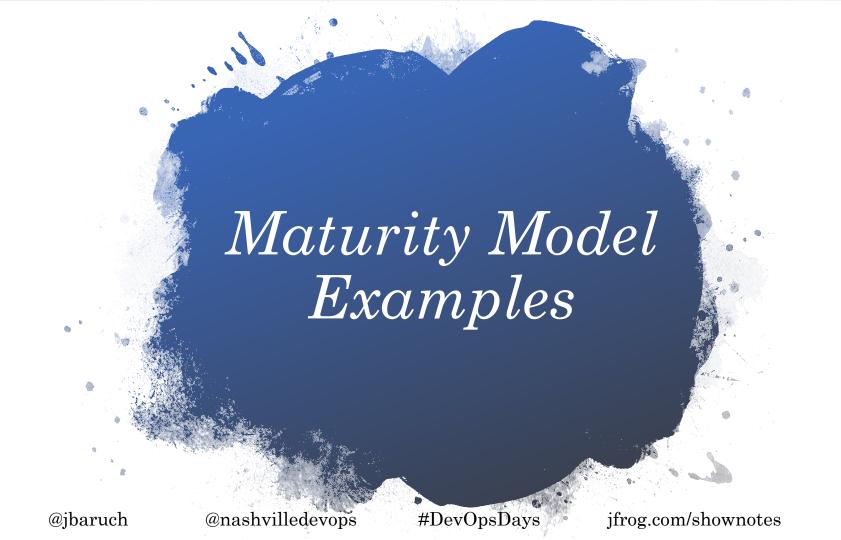
Evaluation factors

Scoring methodology

Self assessment vs 3rd party assessment capability

Progress tracking

Visualization



Simple model



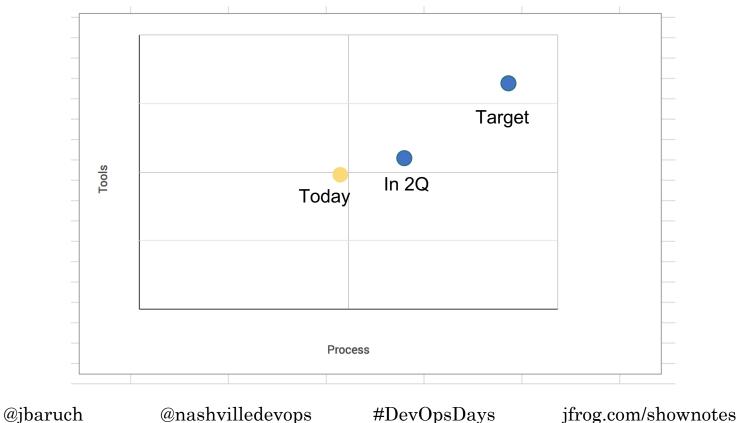
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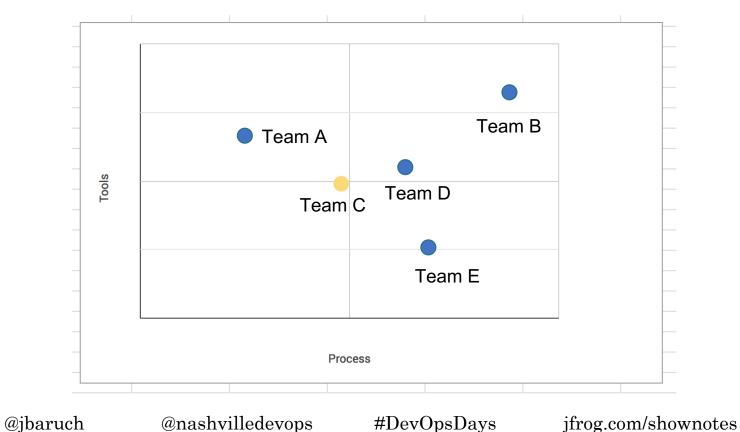
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Progress planning



Leader board



Category	▼ Criticality	V	Benchmark	▼	TODAY	▼	24 motnh from now	▼
02. Organizational Effectiveness	Must Have		0	100	•	22	•	75
03. Architectural Alignment	Should Have		•	83	•	32	•	60
04. Continuous Integration	Must Have		0	90	•	36	0	86
05. Continuous Delivery of product feature	Should Have		0	92	•	35	0	86
06. Unit/Functional Test Automation	Must Have		0	100	•	25	•	72
07. Automated System Test & Health Check	Must Have		•	71	•	22	•	59
08. Everything as Code	Should Have		•	56	•	22	•	52
99. Brand-Directed Initiatives	Must Have		0	100	•	25	•	80
LO. Infrastructure Delivery (IAAS, PAAS)	Must Have		0	98	•	27	•	82
L1. SaaS Services (APAAS / OSS Backing Svcs)	Must Have		•	81	•	33	Incomplete	
12. BSS Automation & Integrations	Must Have		0	93	•	22	•	49
L3. Service Introduction	Must Have		0	100	•	25	•	37
L4. Operating Model	Must Have		0	93	•	23	•	70
L5. Compliance Elements	Nice to have		•	79	•	21	•	24
L6. FedRAMP Elements	Nice to have		0	100	•	0		0
17. Container as Best Practice	Should have		0	96	•	23	O 1	100

	artifacts from a artifact management system in a consumable format	artifacts can be aged and managed, and final artifacts are preserved within required policy guidelines	Yes
		Artifacts are published in a standard consumable	Yes
		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
		 Build dependencies of artifacts that originated from a controlled environment are consumed from a local cache on the build 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
		 Artifacts that originate from outside the company are preserved, with sufficient meta data to verify source and validity of the artifact 	Partial
aruch @		aruch @nashvilledevops #Dev	and country of origin used during publishing Build dependencies of artifacts that originated from a controlled environment are consumed from a local cache on the build machine Remote artifacts are hosted/proxied from a network friendly location that introduces limited latency when artifacts can't be pulled from local cache Artifacts that originate from outside the company are preserved, with sufficient meta data to verify source and validity of the artifact

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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Account for different teams' priorities

Feature Weight V	¥1	Description of Category	Engineering 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	а		
04. Continuous Integration		Service"	Must Have	Not relevant	Must Have
05. Continuous Delivery of product					
feature		Ability to deliver features into production with minimal impedence by process	Not relevant	Must Have	Should Have
		Unit est coverage of code is comprehensive enough to allow for functionality to be delivered into production. Poor cod	е		
		quality/high technical debt drives cost of Ops and CX. Functional test coverage of code is comprehensive enough to			
06. Unit/Functional Test Automatio	on	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 automatics includes disciplines that are not "formational" and a convity makility performance at a Research	4.		
07 Automated System Test 9 Health	. h	Quality automation includes disciplines that are not "functional", such as security, usability, performance, etc. Poor cod	ie .		
07. Automated System Test & Healt Check	LII	quality/high technical debt drives cost of Ops and CX. Acquisition and construction of test data is automated and	Must Have	Not relevant	Must Have
Спеск		comprehensive. Heavyweight test processes such as security scanning and IAST are automated as much as practical.	IVIUST Have	NOT relevant	iviust 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

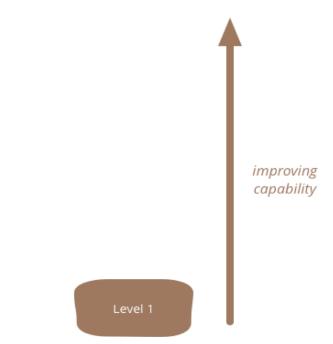
Partner with forward looking teams first

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

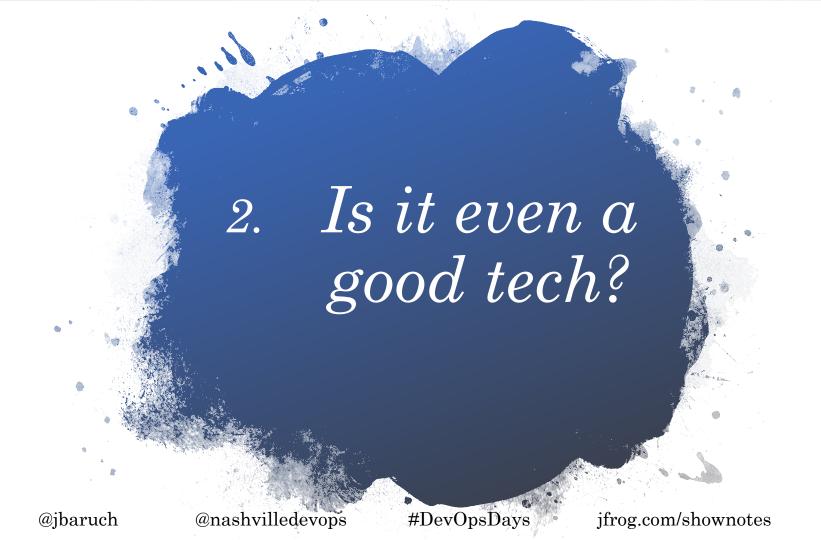
Evolve the model from time to time

And

Our message is:



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



FORRESTER®

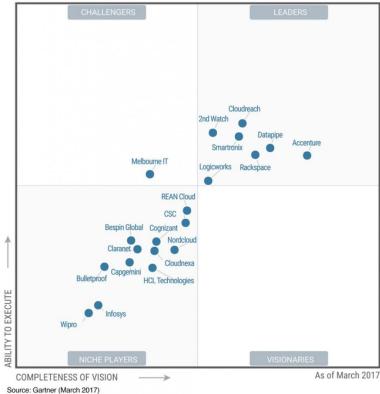








Figure 1. Magic Quadrant for Public Cloud Infrastructure Managed Service Providers, Worldwide

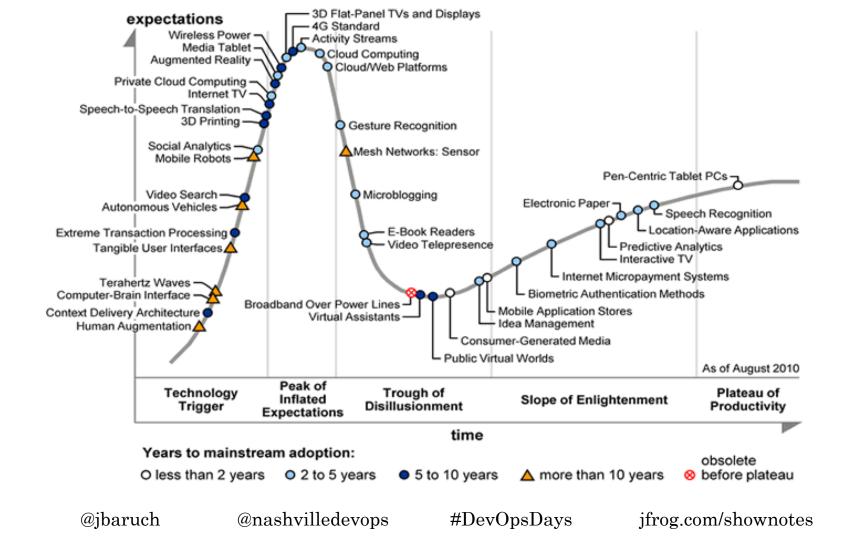


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Build my radar

Need help?

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