# Governance to Guidance to Awesome Product

Levi Geinert @levi\_online Dan Cundiff @pmotch Luke Rettig @LukeRettig



# Levi Geinert Director Engineering @levi\_online





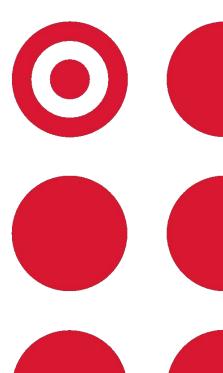
### governance to guidance



real world example



awesome product

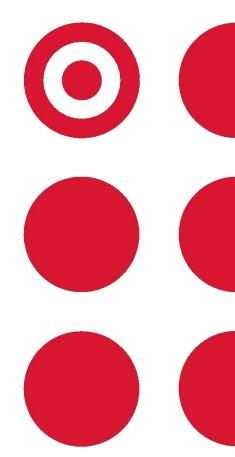




tech.target.com

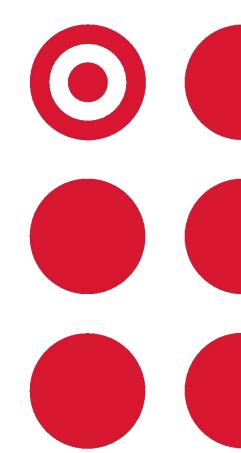
350,000+ team members
1,835 stores
39 distribution centers
6 HQ locations
5% Target profit goes to communities

**56** years of service

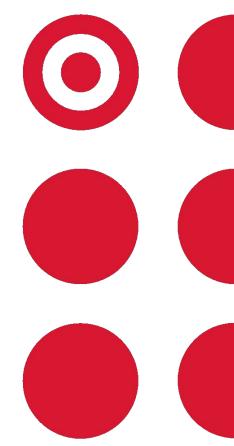


### our evolution

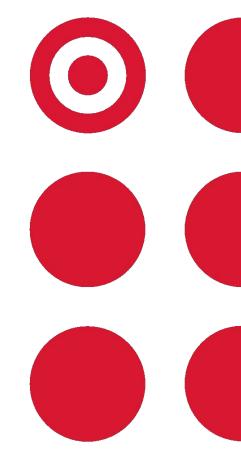




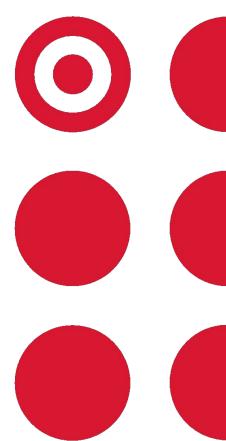
## heavy tech focus



## scrum / agile



# product management capability





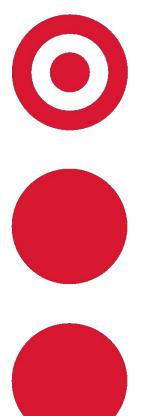
Following

It sucks when you've got a new product idea and your customer research proves that your assumptions were wrong and no one really wants your product.

It sucks way more when you don't do any research and spend months (or years) building the wrong thing.

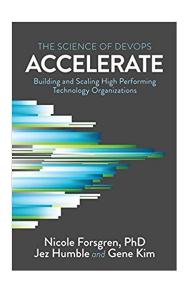
7:44 PM - 19 Aug 2018

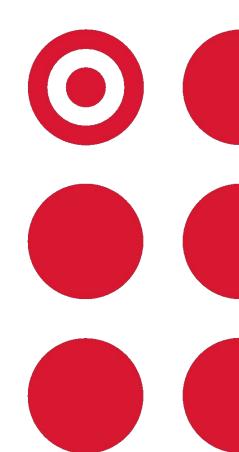




"When teams can decide which tools they use, it contributes to software delivery performance and, in turn, to organizational performance."

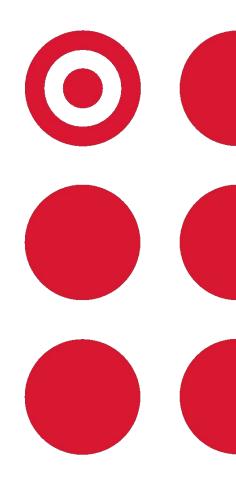
--Accelerate, Chapter 5, Forsgren et al., 2016



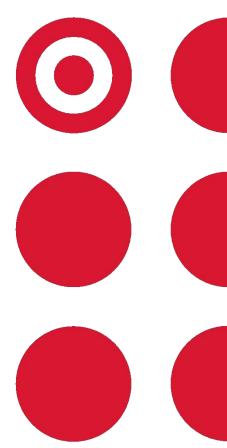


## too many choices





# what does guidance look like?





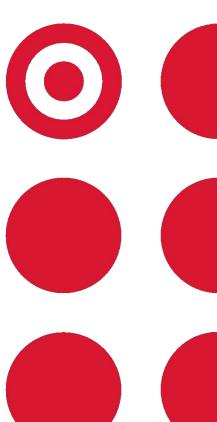
accessible - everyone can contribute transparent - everyone should be able to see flexible - easy to change, because tools do cultural - as cool as DevOps



# Dan Cundiff Principal Engineer @pmotch

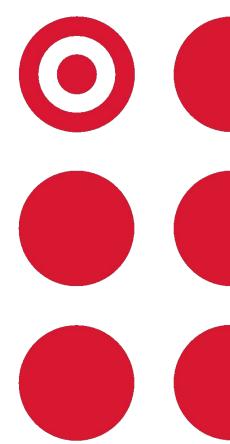


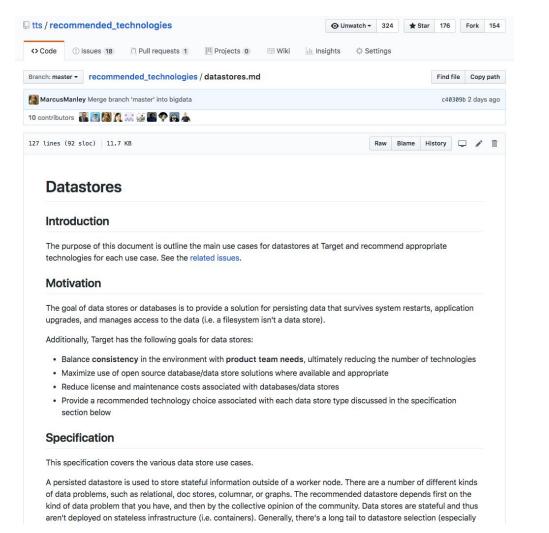
# how we used to choose technologies

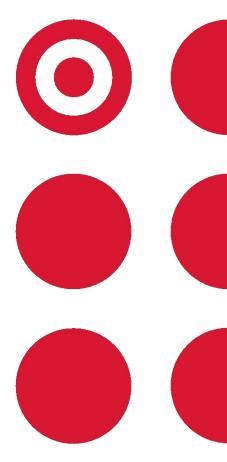


recommended\_technologies

MarcusManley Merge pull request #38.	3 from BobbyStockstead/master	Latest commit b89126d 2 days ago
drone.yml	Automate the technologies index file (index_alpha.md)	6 days ago
gitignore	read me links	2 years ago
CONTRIBUTING.md	Additional instructions for changes	a year ago
PULL_REQUEST_TEMPLATE.md	Revised per comments.	a year ago
README.md	Update badge to drone6	6 months ago
api_gateway.md	Updated api gateway page	15 days ago
application_frameworks.md	Update application_frameworks.md	16 days ago
aching.md	added caffeine	7 days ago
ategory-prototype.md	updating spelling errors, adding compliance status category	10 months ago
i ci_cd.md	#358 - correct copy/paste error	14 days ago
cloud_and_compute.md	Clarified that it applies to Java 11 and above	4 days ago
collaboration.md		8 months ago
containers.md	Readded Image Versioning & removed supervisord link	a year ago
couscous.yml	Update couscous.yml	7 months ago
atastores.md	Merge branch 'master' into bigdata	2 days ago
developer_tools.md	Update developer_tools.md	7 days ago



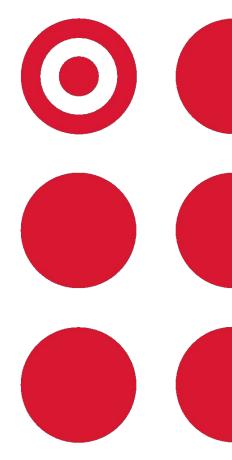




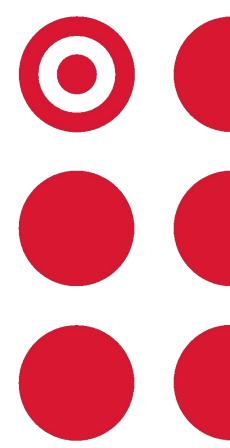
#### **Technologies**

Type: **Relational Datastore** Classification: Foundational

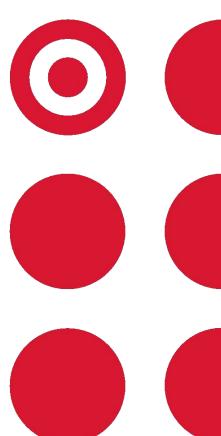
Name	Status	Use Case/Rationale	Compliance Status	Link(s)
PostgreSQL	Recommended	Default choice. Open source, no license costs. Good for small to medium applications.		PostgreSQI Managed Service or request via DaaS Porta
	Limited Use	-	All	
	Do Not Use	Do not use for new applications, is being sunset across all portfolios. Existing applications should actively search for replacement.		



## developer focused

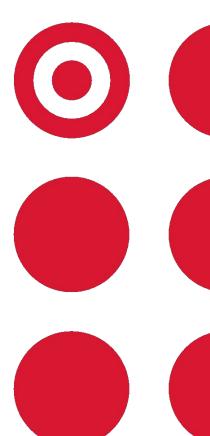


## pull request workflow



## git blame

			60 61	Apache Storm   Apache Spark	Recommended
using kafka stream as data store and streaming service	22 days ago	(1)	62	Kafka Streams	Recommended
<b>፩</b> ∨2	a year ago		63		
			64		
			65	Type: **Data Inte	egration (ETL/ELT)

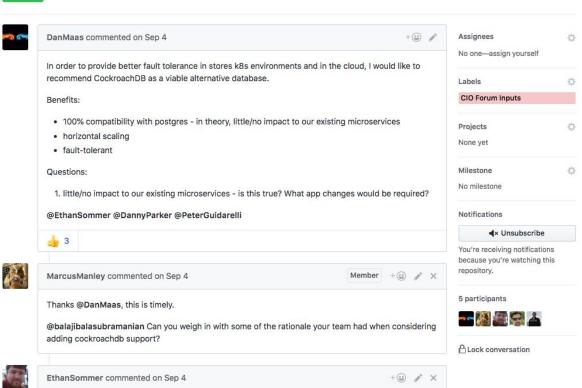


#### Provide recommendations for CockroachDB #344

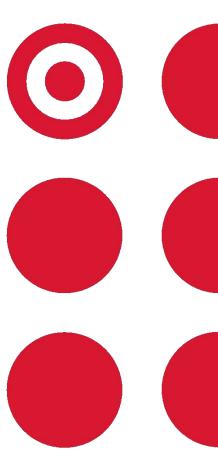
**New issue** 

① Open DanMaas opened this issue on Sep 4 · 16 comments

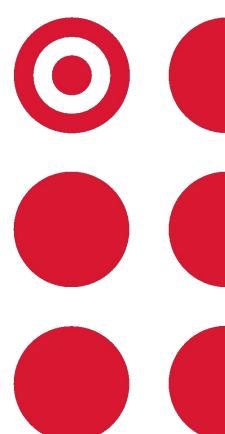
FWIW, we looked into cockroachdb for stores.



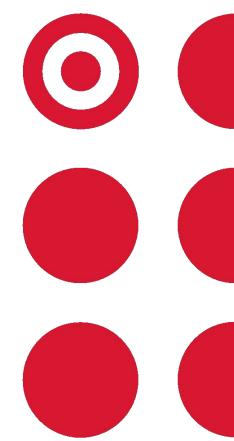
We had it working. I believe but when we started talking to the DRaaS team, they wanted to use netroni-



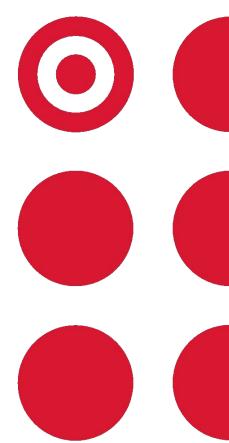
## automate workflows



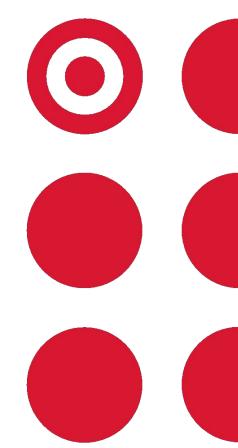
## resist complexity

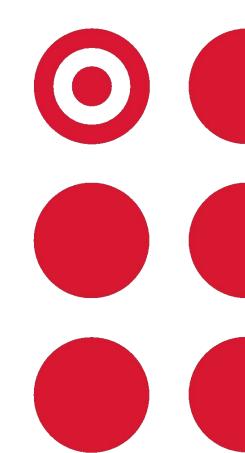


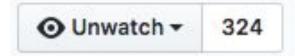
## rotating volunteers



big change? take it to the top.









\* Star 



#### September 10, 2018 - October 10, 2018

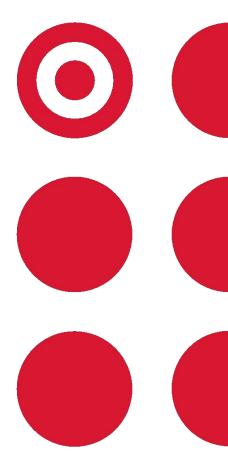
Period: 1 month ▼



Excluding merges, 15 authors have pushed 35 commits to master and 61 commits to all branches. On master, 14 files have changed and there have been 113 additions and 383 deletions.



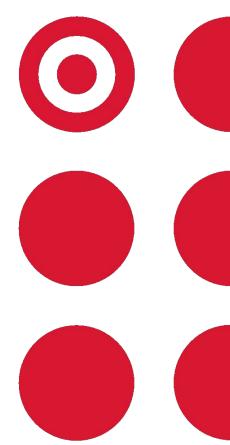




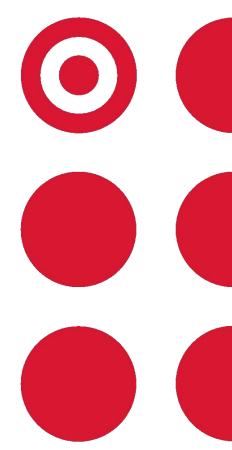
# Luke Rettig Principal Product Owner @LukeRettig

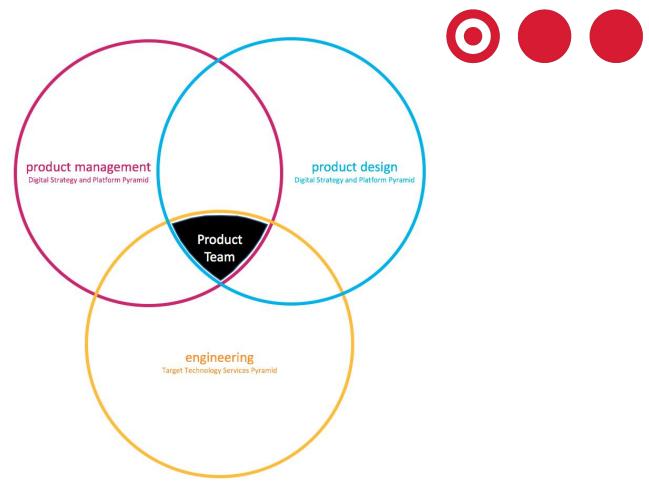


# view from a product manager



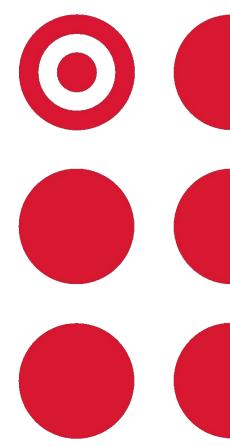
### survey





### silos

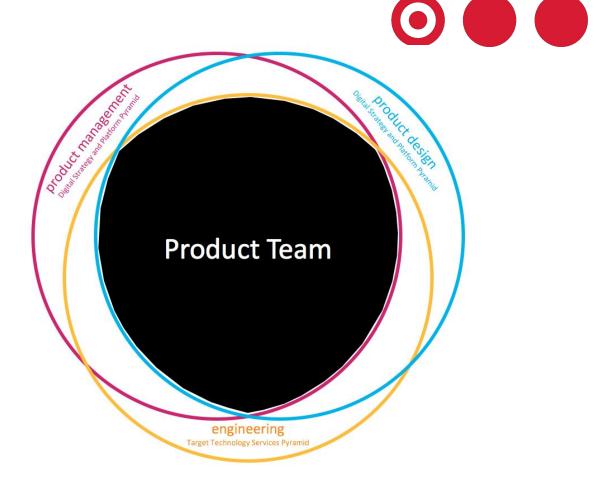
# building the wrong thing is a disaster



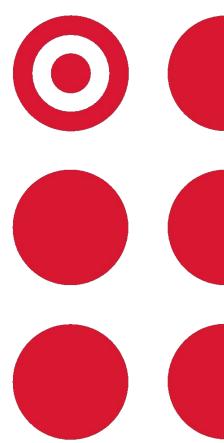


```
if (engineers == "constrained" ) {
    System.out.println("This is going to be bad."):
}
else {
    System.out.println("We have a chance!");
}
```

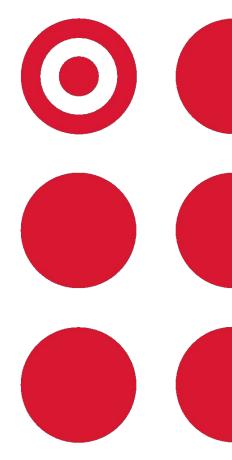
# awesome products



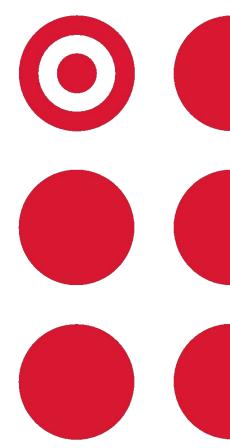
# role of the product manager



# advice to engineering



# the story is still the same



thank you.

