package Platform Engineering

import "Team Topologies"

type Principles interface

Architect

Cansu Kavn



HELM

Trouble

ValVonchev

Why listen to us?

Team Topologies



Team what?

https://teamtopologies.com/





Let's talk Platforms

个Platform1 Escalator and stairs 少∳

<Platforms>

Accelerate the flow of value AND Reduce cognitive load within the whole system AND Enable substantial autonomy of teams consuming them

</Platforms>

package Platform;

)

public class Platform team {

/*
* Pay attention! Not what you thought it means
*/

<u>a grouping of other team types</u>, which provide a compelling internal product to accelerate delivery of value by Stream-aligned teams

PLEASE

SLEEP HERE

BE ADVISED

Words of Caution

- → Team is the smallest unit of delivery (and measurement)
- → Platforms reduce cognitive load and accelerate flow of value (or they shouldn't exist)
- → Thinnest Viable Platform ... is the maximum we should develop
- → Cognitive load drives decisions (team-of-teams design)
- \rightarrow Treat the platform as a product **Principles from**
- → Teams communicate through APIs **Team Topologies**
- → Platforms are never intuitive and easy enough
- → Team Topologies is a VERB, not a label

DevelopMENT Experience

Develop **K** Experience

Principle: Team is the smallest unit of delivery (and measurement)

Principle: Platforms reduce cognitive load AND accelerate flow of value (or they shouldn't exist)





Principle: Thinnest Viable Platform ... is the maximum we should develop

Principle: Cognitive load drives decisions (team-of-teams design)

Domain-Driven Design (Event Storming) helps define team boundaries

Principle: Cognitive load drives decisions (team-of-teams design)



Principle: Treat the Platform as a Product

Principle: Treat the Platform as a Product >> Serve real needs, real customers

- Who is the customer?
- What does she need?
- What job does your product do for her?
- Can one product serve several different customers OR do they have different jobs to be done?

Principle: Treat the Platform as a Product >> Development Degrees of Freedom

OKAY, HOLD STILL. AND REMEMBER, IF YOU REALLY BELIEVE IN THE LAWS OF PHYSICS, YOU WON'T FLINCH.



Principle: Treat the Platform as a Product >> Development Degrees of Freedom

"Black box" Services Configurable Services

Modifiable Services

"I love that everything just works!"

" I can tweak things the way I need them."

"The platform lets me experiment and innovate, and I can contribute my enhancements back to improve it."

Build/serve one group at a time
Collaboration interaction pattern precedes X-as-a-Service

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Principle: Treat the Platform as a Product

>> Starts with one team, builds Thinnest

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Designed To Mai A Difference

orodress

- Competition drives progress
- Product use is optional

Principle: Treat the Platform as a Product

Competition

THANKS FOR CHOOSING PEPSI

 Technology evolve and sometimes you need to switch from in-house to commodity

For your information, there's a lot more to Platforms than people think... Platforms are like onions. Onions have layers. Platforms have layers...

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<u>a grouping of other team types</u>, which provide a compelling internal product to accelerate delivery of value by Stream-aligned teams

Principle: Treat the Platform as a Product >> Platform teams have cognitive load and needs too



Principle: Treat the Platform as a Product >> Platform teams have cognitive load and needs too





Principle: Teams communicate through Team APIs

Principle: Plat orms Products are never-

intuitive or easy enough

Principle: Team Topologies is a VERB,

not a label

Continuous effort Not always great results New need every day Practice - practice - practice Platform Engineering is the culture of building platforms services which are:

- Easy to consume
- Reduce cognitive load (of those consuming them)
- Continuously evolved as needs evolve
- Economically viable



book time with Val

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Thank you for listening!