CLOUD NATIVE
COMPUTING FOUNDATION

CLOUD NATIVE
BANGKOK
COMMUNITY GROUP

# Level Up+ Your Cloud-Native Platform

by Sharkrit Impat
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Ascend Bit Company (ABC)

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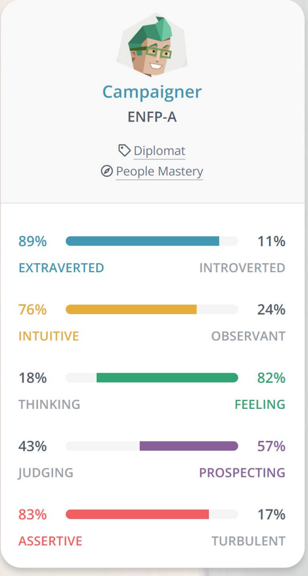
# Mr.Sharkrit Impat - Mr.Nice Job!

**DISC Type**

**"I"**



Campaigner

ENFP-A

Diplomat

People Mastery

89% EXTRAVERTED — 11% INTROVERTED

76% INTUITIVE — 24% OBSERVANT

18% THINKING — 82% FEELING

43% JUDGING — 57% PROSPECTING

83% ASSERTIVE — 17% TURBULENT

## Profile Summary

I've more than 24+ years of experience in the IT industry, specialize in implement and operate cross-platform on multi-vendor hybrid-cloud infrastructure to deliver a reliable and secure large-scale online platform, familiar with both Lean Startup and Enterprise frameworks that successfully applied methodologies like Agile, Scrum, DevOps, GitOps, SRE, to setup Platform Engineering team to deliver Platform as a Product, building from MVP to the large-scale solutions.

## Strengths

- ✓ Extensive Experience
- ✓ Problem Solving
- ✓ Passion for Learning
- ✓ Consulting & Selling
- ✓ Planning & Execution
- ✓ Strategic Thinking
- ✓ Leadership & Team Building

## Core Skills

- ➢ Blockchain & Web3.0
- ➢ Cloud Computing
- ➢ Hybrid Infrastructure
- ➢ Cybersecurity
- ➢ Platform Engineering
- ➢ Business Analysis
- ➢ Startup Incubator
- ➢ Cybersecurity
- ➢ Sustainability Supply Chain
- ➢ New Company Setup
- ➢ Tech Budgeting
- ➢ Strategy Development

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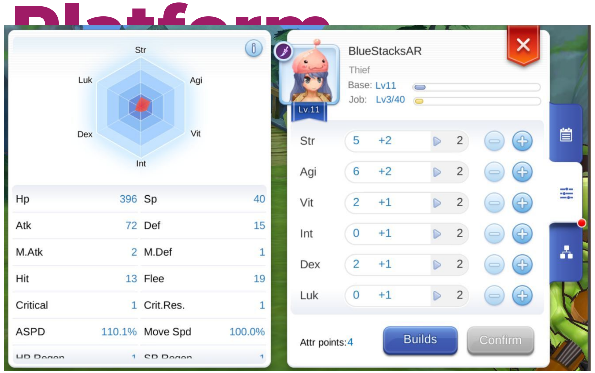
# Level Up+ from Novice to High Class Platform

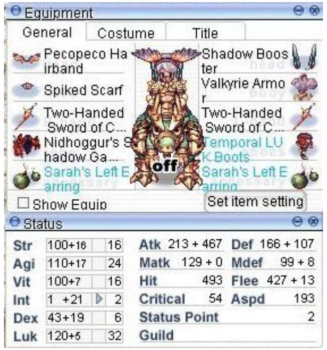


| | | | |
|---|---|---|---|
| Hp | 396 | Sp | 40 |
| Atk | 72 | Def | 15 |
| M.Atk | 2 | M.Def | 1 |
| Hit | 13 | Flee | 19 |
| Critical | 1 | Crit.Res. | 1 |
| ASPD | 110.1% | Move Spd | 100.0% |
| HP Regen | 1 | SP Regen | 1 |

BlueStacksAR
Thief
Base: Lv11
Job: Lv3/40
Lv.11

| | | | |
|---|---|---|---|
| Str | 5 | +2 | 2 |
| Agi | 6 | +2 | 2 |
| Vit | 2 | +1 | 2 |
| Int | 0 | +1 | 2 |
| Dex | 2 | +1 | 2 |
| Luk | 0 | +1 | 2 |

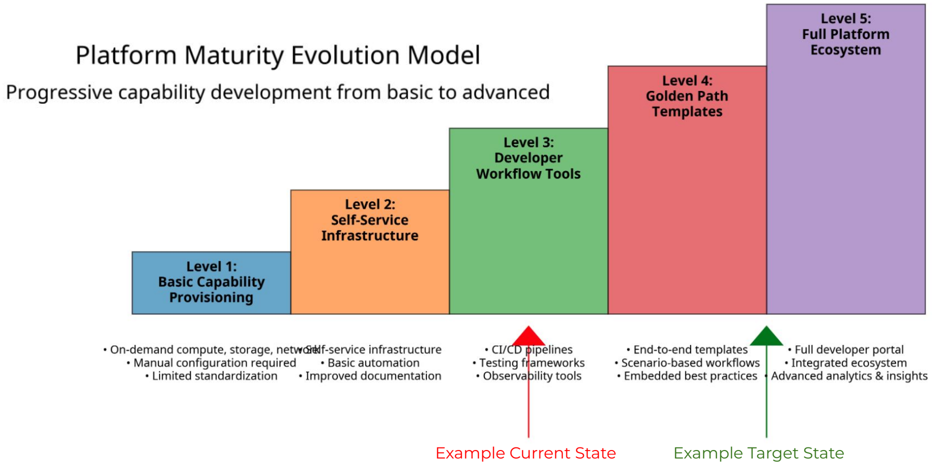
Attr points: 4



Pecopeco Hairband
Spiked Scarf
Two-Handed Sword of C...
Nidhoggur's Shadow Ga...
Sarah's Left Earring
Shadow Booster
Valkyrie Armor
Two-Handed Sword of C...
Temporal LUK Boots
Sarah's Left Earring

□ Show Equip

| | | | | | | |
|---|---|---|---|---|---|---|
| Str | 100+16 | 16 | Atk | 213 + 467 | Def | 166 + 107 |
| Agi | 110+17 | 24 | Matk | 129 + 0 | Mdef | 99 + 8 |
| Vit | 100+7 | 16 | Hit | 493 | Flee | 427 + 13 |
| Int | 1 +21 | 2 | Critical | 54 | Aspd | 193 |
| Dex | 43+19 | 6 | Status Point | | | 2 |
| Luk | 120+5 | 32 | Guild | | | |



Platform Maturity Evolution Model

Progressive capability development from basic to advanced

- On-demand compute, storage, network
- Manual configuration required
- Limited standardization

- Self-service infrastructure
- Basic automation
- Improved documentation

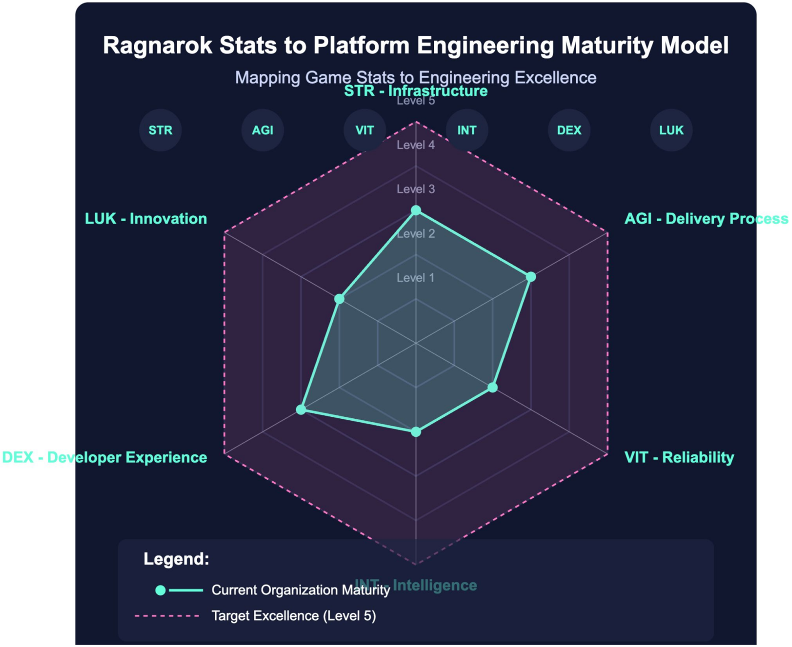
- CI/CD pipelines
- Testing frameworks
- Observability tools

- End-to-end templates
- Scenario-based workflows
- Embedded best practices

- Full developer portal
- Integrated ecosystem
- Advanced analytics & insights

Example Current State

Example Target State



Ragnarok Stats to Platform Engineering Maturity Model

Mapping Game Stats to Engineering Excellence

Legend:
● Current Organization Maturity
Target Excellence (Level 5)

# As-a-Service Cloud-Native Business

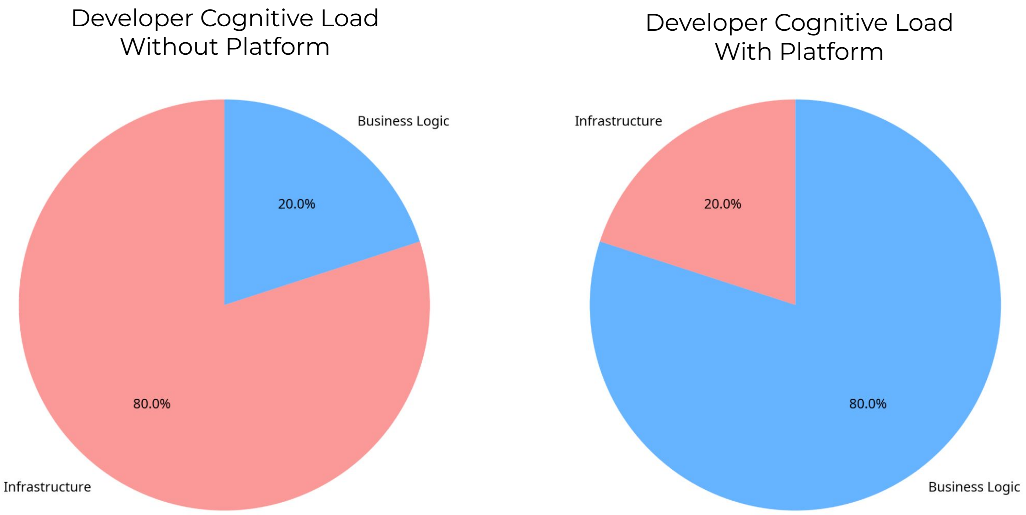
## IaaS + PaaS + SaaS

## ⬇

## XaaS

**Everything as a Service (XaaS)** is an emerging deployment model for rapid deliver services that serve as revenue engine for innovative digital business in digital economy ecosystem

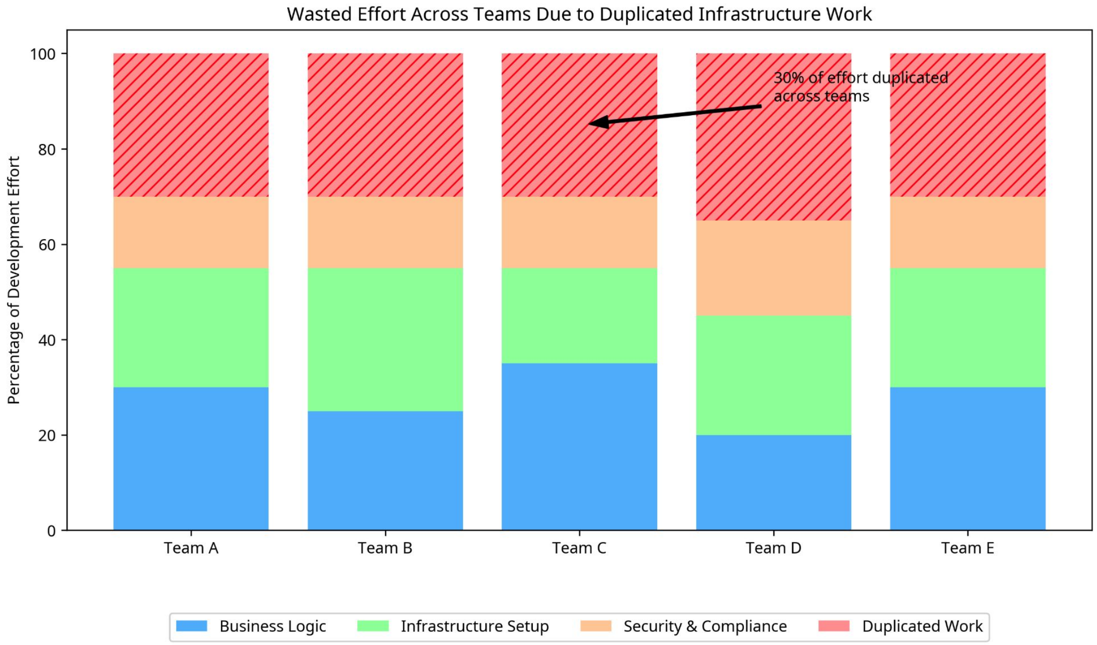
# The Developer Cognitive Overload Challenge



Developer Cognitive Load Distribution

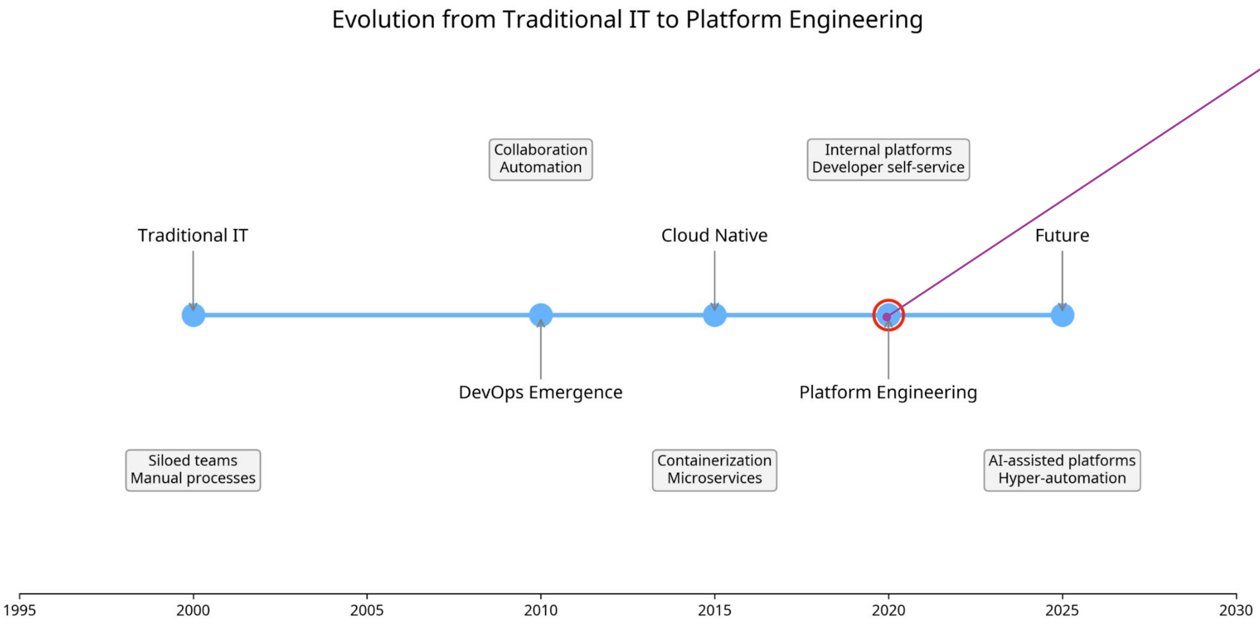
- Today's application teams are stretched thin
- Expected to build applications AND manage infrastructure
- 80% of developer cognitive load spent on infrastructure concerns
- Only 20% focused on actual business logic
- Result: Slower innovation, frustrated developers, technical debt

# The Cost of Fragmentation

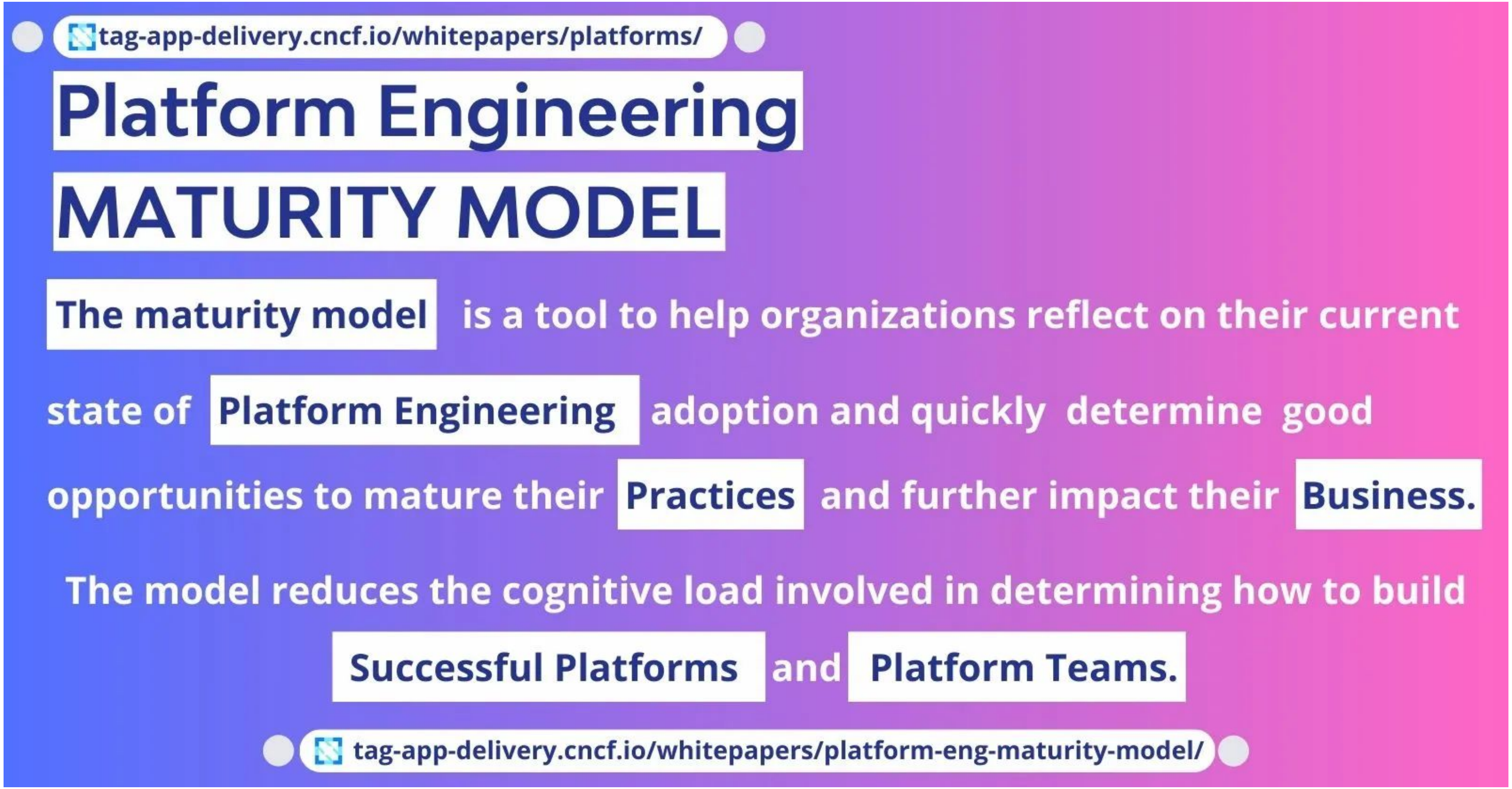


- Teams reinventing the wheel across the organization
- 30% of development effort duplicated across teams
- Inconsistent practices leading to:
  - **Security vulnerabilities**
  - **Compliance gaps**
  - **Slower time-to-market**
  - **Higher operational costs**

# Platform Engineering Defined



- CNCF definition: "An integrated collection of capabilities defined and presented according to user needs"
- Evolution from DevOps principles
- Focused on developer experience and productivity
- Creates a consistent layer across applications and use cases



tag-app-delivery.cncf.io/whitepapers/platforms/

# Platform Engineering

# MATURITY MODEL

**The maturity model** is a tool to help organizations reflect on their current state of **Platform Engineering** adoption and quickly determine good opportunities to mature their **Practices** and further impact their **Business.**

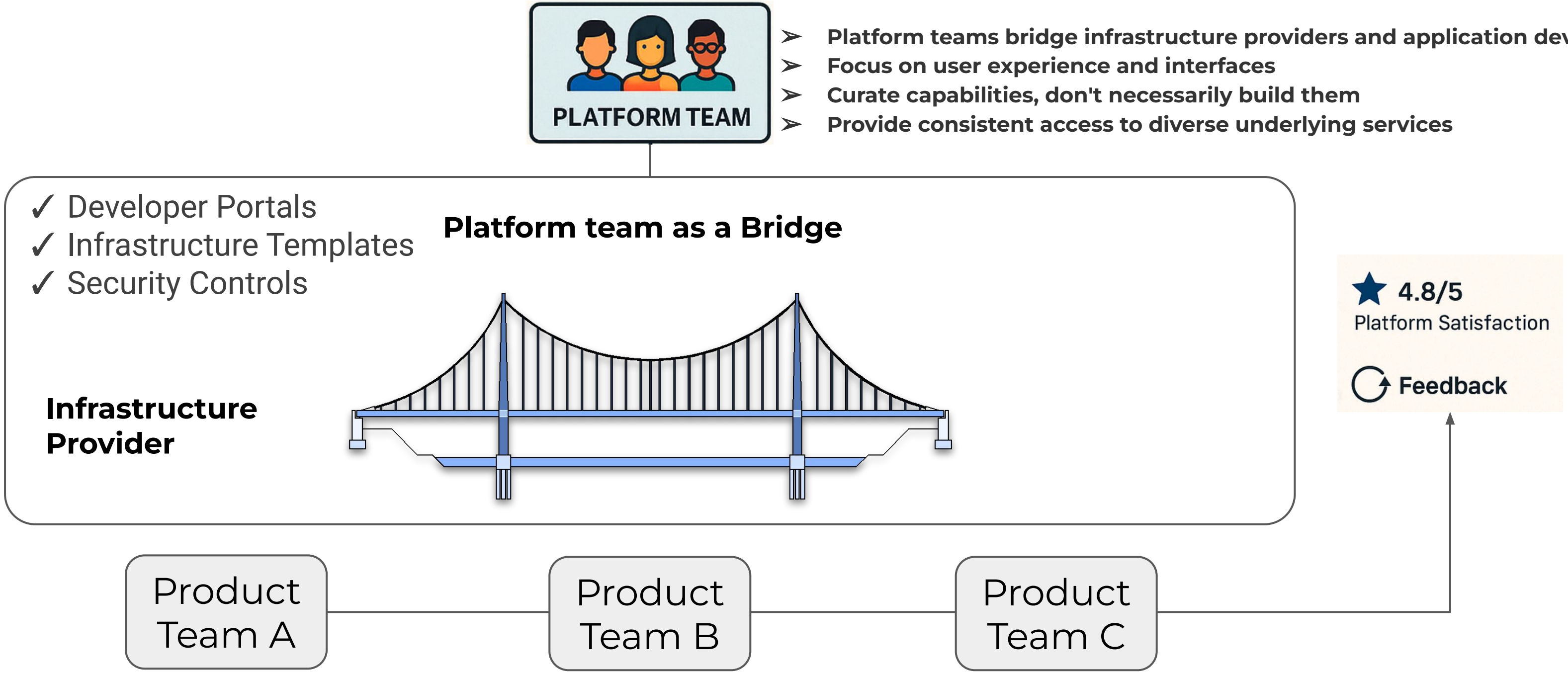
The model reduces the cognitive load involved in determining how to build **Successful Platforms** and **Platform Teams.**

tag-app-delivery.cncf.io/whitepapers/platform-eng-maturity-model/

Image: https://medium.com/@saimsafder14/cncf-platform-working-group-launched-platform-engineering-maturity-model-fd97177c62cf

# Platform as a Product

## Design for Developer Experience + Build for Scale



- ➢ Platform teams bridge infrastructure providers and application developers
- ➢ Focus on user experience and interfaces
- ➢ Curate capabilities, don't necessarily build them
- ➢ Provide consistent access to diverse underlying services

✓ Developer Portals
✓ Infrastructure Templates
✓ Security Controls

**Platform team as a Bridge**

**Infrastructure Provider**

★ 4.8/5
Platform Satisfaction

**Feedback**

Product Team A

Product Team B

Product Team C

# Capabilities of platforms

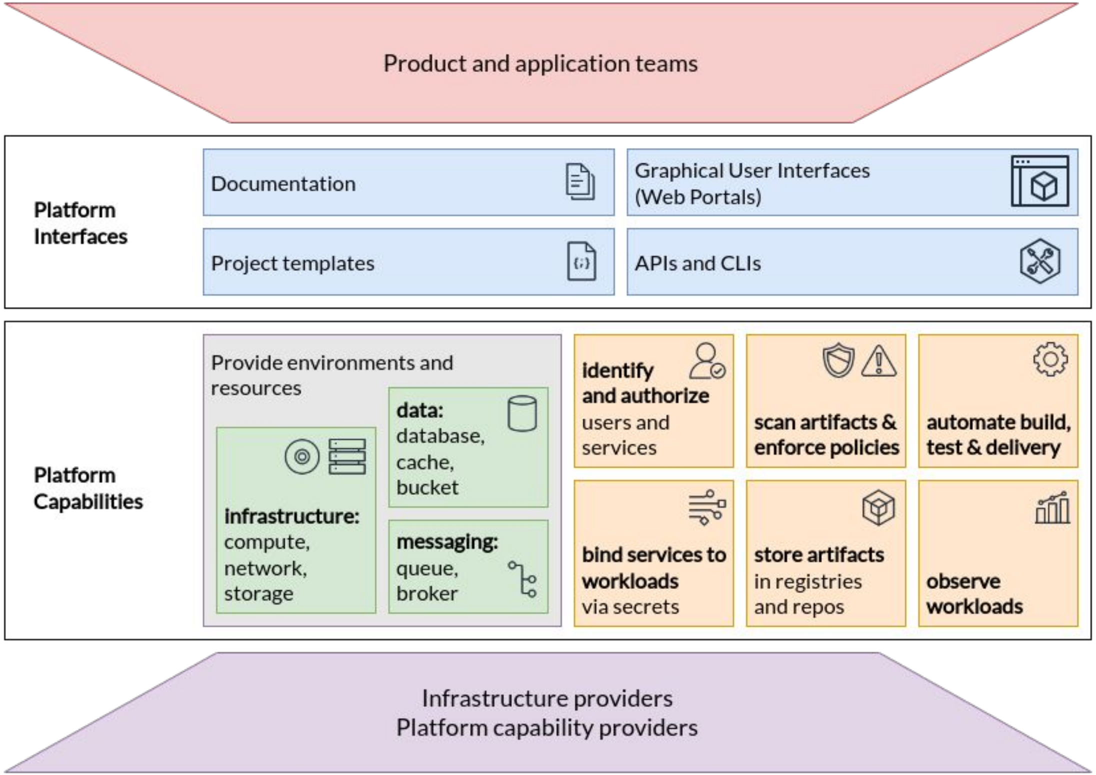

Product and application teams
Platform Interfaces
Documentation
Graphical User Interfaces (Web Portals)
Project templates
APIs and CLIs
Platform Capabilities
Provide environments and resources
data: database, cache, bucket
infrastructure: compute, network, storage
messaging: queue, broker
identify and authorize users and services
scan artifacts & enforce policies
automate build, test & delivery
bind services to workloads via secrets
store artifacts in registries and repos
observe workloads
Infrastructure providers
Platform capability providers

Image: https://tag-app-delivery.cncf.io/whitepapers/platforms/#capabilities-of-platforms

# Platform Engineering Maturity Model Table

| Aspect | | Provisional | Operational | Scalable | Optimizing |
|---|---|---|---|---|---|
| **Investment** | How are staff and funds allocated to platform capabilities? | **Voluntary or temporary** | **Dedicated team** | **As product** | **Enabled ecosystem** |
| **Adoption** | Why and how do users discover and use internal platforms and platform capabilities? | **Erratic** | **Extrinsic push** | **Intrinsic pull** | **Participatory** |
| **Interfaces** | How do users interact with and consume platform capabilities? | **Custom processes** | **Standard tooling** | **Self-service solutions** | **Integrated services** |
| **Operations** | How are platforms and their capabilities planned, prioritized, developed and maintained? | **By request** | **Centrally tracked** | **Centrally enabled** | **Managed services** |
| **Measurement** | What is the process for gathering and incorporating feedback and learning? | **Ad hoc** | **Consistent collection** | **Insights** | **Quantitative and qualitative** |

# Platform Engineering Strategy

## a IDP Platform

- Infrastructure as Code
- Runbook Automation

## b Golden Path

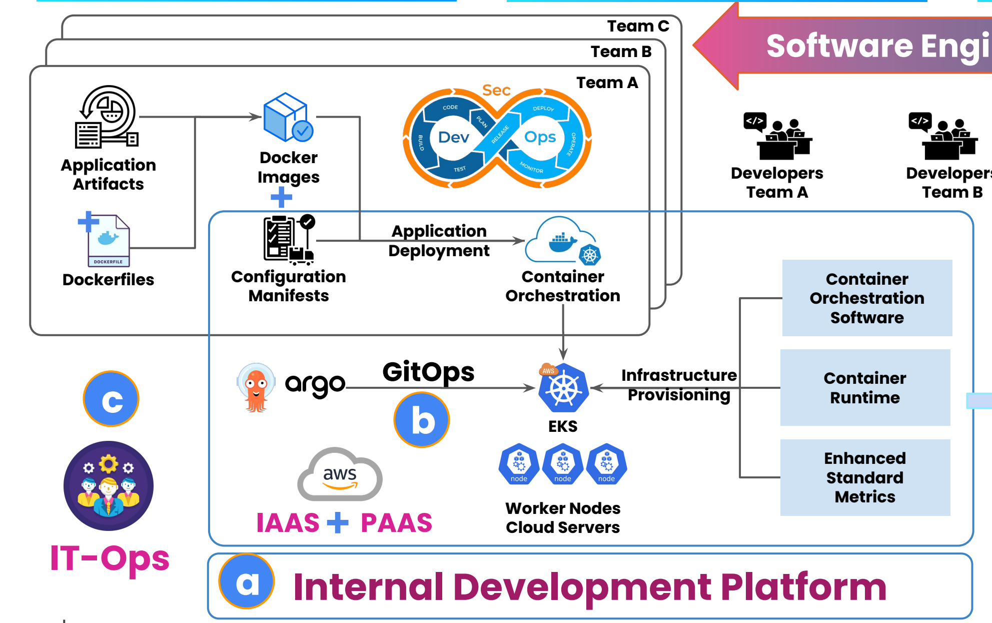
- DevSecOps Pipeline
- GitOps Methodology

## c User Centric

- Self-Service Automation
- Self-Healing Monitoring

## d Measurement

- Observability
- DORA Dashboard



**Platform Engineering** collaborates with **Software Engineering** teams on priorities and delivers and supports the multiple cloud-native infrastructure and builds **Everything-as-a-Service (XaaS)**

## d Measurement

Observability Platform

- Data Visualization
- Logs Collection
- Metrics Collection
- System Metrics
- Application Metrics
- Security Metrics
- DORA Metrics

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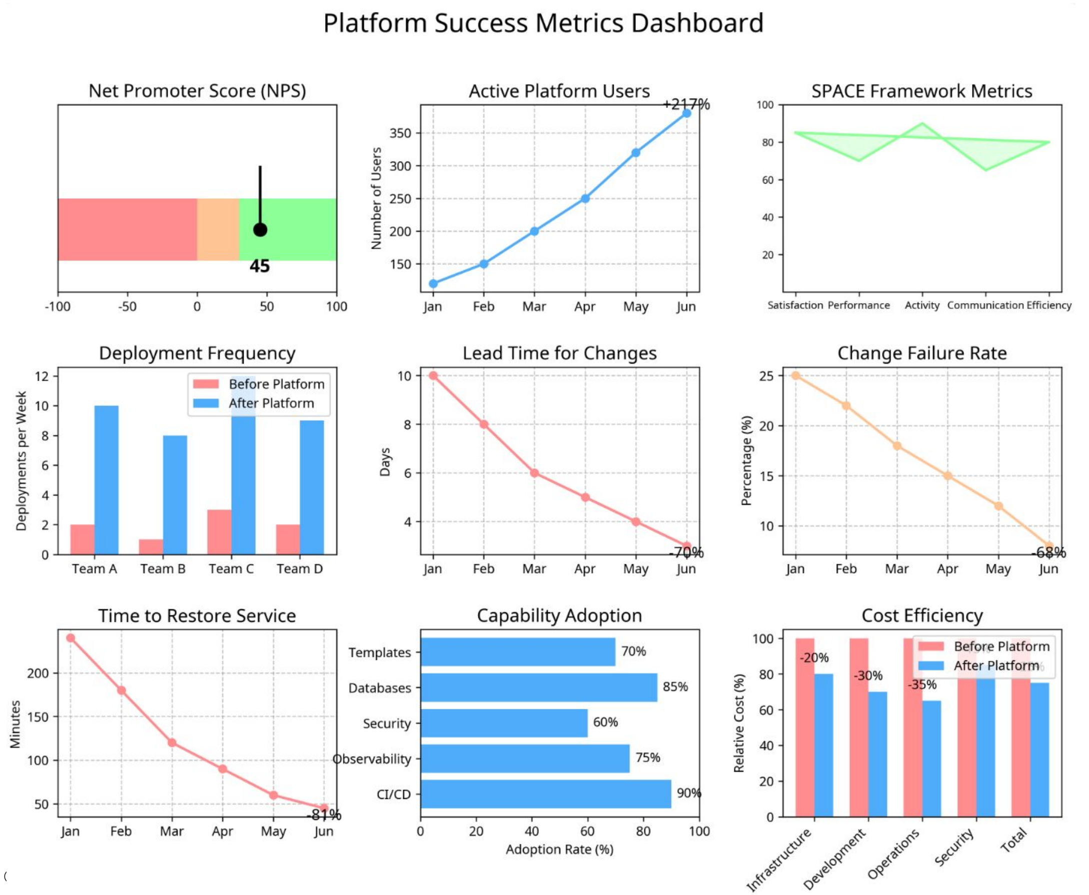
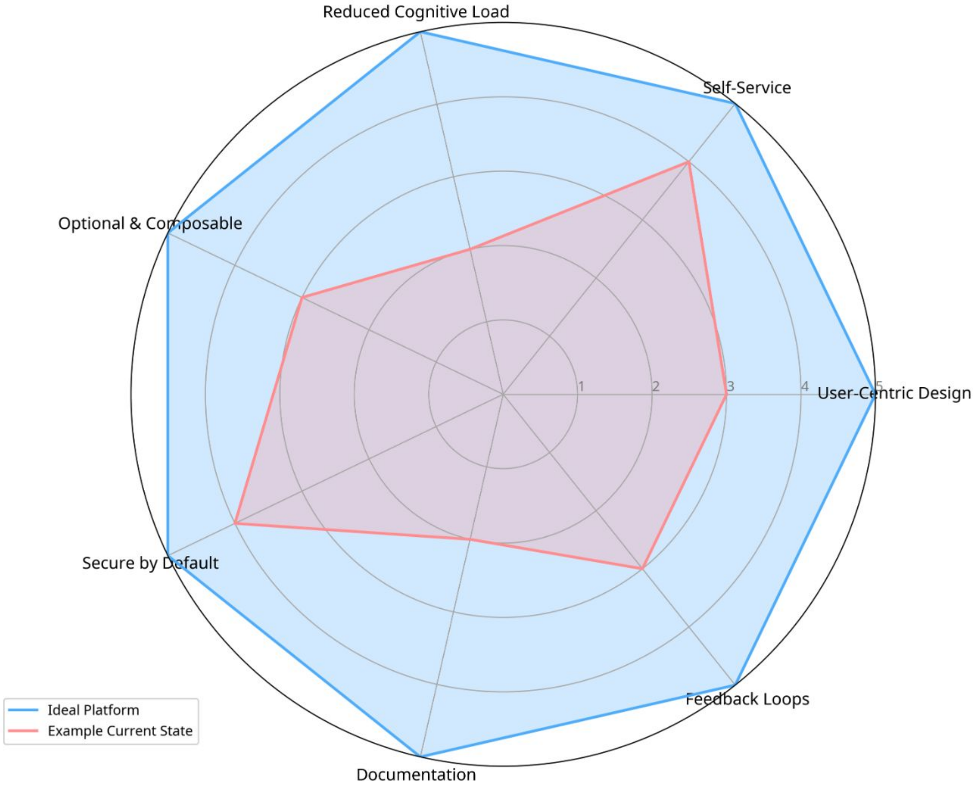
# Measuring Platform Success



Platform Success Metrics Dashboard

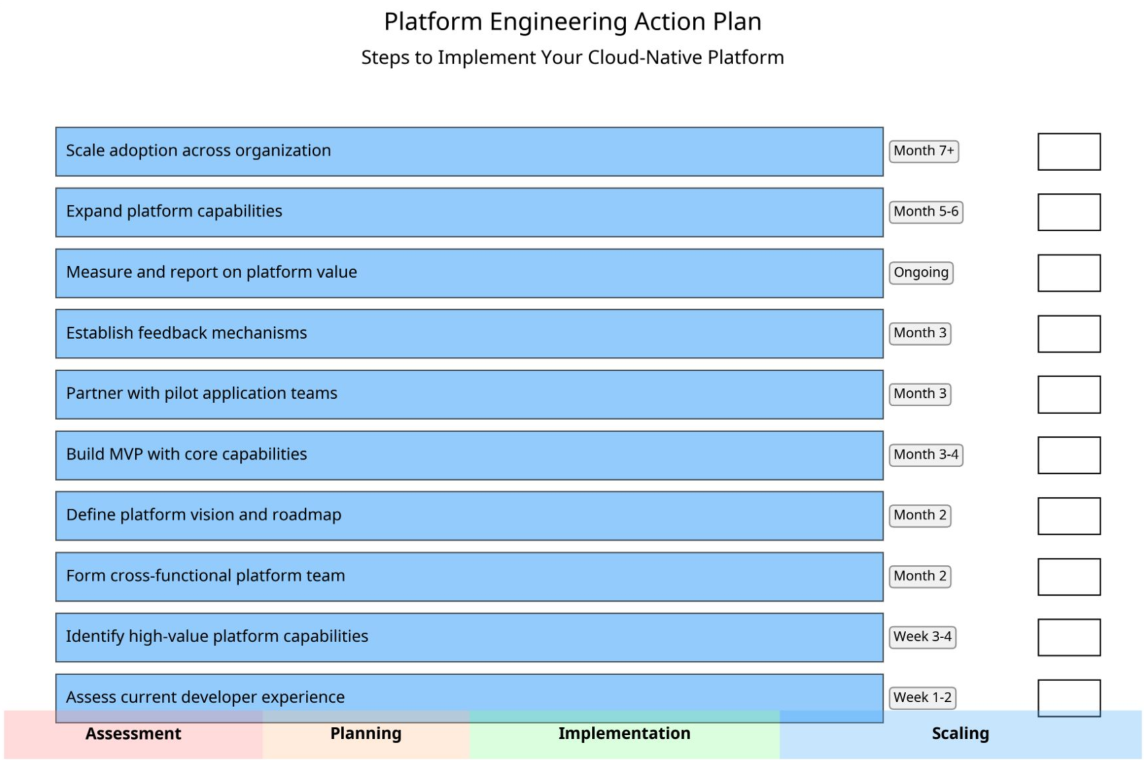
- User satisfaction metrics (NPS)
- Developer productivity (SPACE framework)
- Organizational efficiency
- DORA metrics impact:
- Deployment frequency
- Lead time for changes
- Time to restore service
- Change failure rate

# Key Attributes of Successful Platforms



- User-centric design
- Self-service capabilities
- Reduced cognitive load
- Optional and composable
- Secure by default
- Comprehensive documentation
- Continuous feedback loops

# Next Steps for Your Organization



Platform Engineering Action Plan

Steps to Implement Your Cloud-Native Platform

| | | |
|---|---|---|
| Scale adoption across organization | Month 7+ | □ |
| Expand platform capabilities | Month 5-6 | □ |
| Measure and report on platform value | Ongoing | □ |
| Establish feedback mechanisms | Month 3 | □ |
| Partner with pilot application teams | Month 3 | □ |
| Build MVP with core capabilities | Month 3-4 | □ |
| Define platform vision and roadmap | Month 2 | □ |
| Form cross-functional platform team | Month 2 | □ |
| Identify high-value platform capabilities | Week 3-4 | □ |
| Assess current developer experience | Week 1-2 | □ |

- **Assess current developer experience (Week 1-2)**
- **Identify high-value platform capabilities (Week 3-4)**
- **Form cross-functional platform team (Month 2)**
- **Define platform vision and roadmap (Month 2)**
- **Build MVP with core capabilities (Month 3-4)**
- **Partner with pilot application teams (Month 3)**
- **Establish feedback mechanisms (Month 3)**
- **Measure and report on platform value (Ongoing)**

# Key Takeaway

- Platform Engineering reduce developer cognitive load
- Treat platforms as products with users
- Start small, focus on user needs
- Measure success with clear metrics

CNCF Platforms Working Group

PLATFORMS FOR CLOUD-NATIVE COMPUTING

White paper

CLOUD NATIVE COMPUTING FOUNDATION

Resource: https://tag-app-delivery.cncf.io/whitepapers/platform-eng-maturity-model/

# Thank You & Please Follow

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