
AWS
re:Invent
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Developers do care about security: Building a more collaborative path

Madeline Van Der Paelt (she/her)

Development Manager
Trend Micro

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Madeline Van Der Paelt

- Software developer turned development manager
- Lifelong learner
- Yoga enthusiast



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Agenda

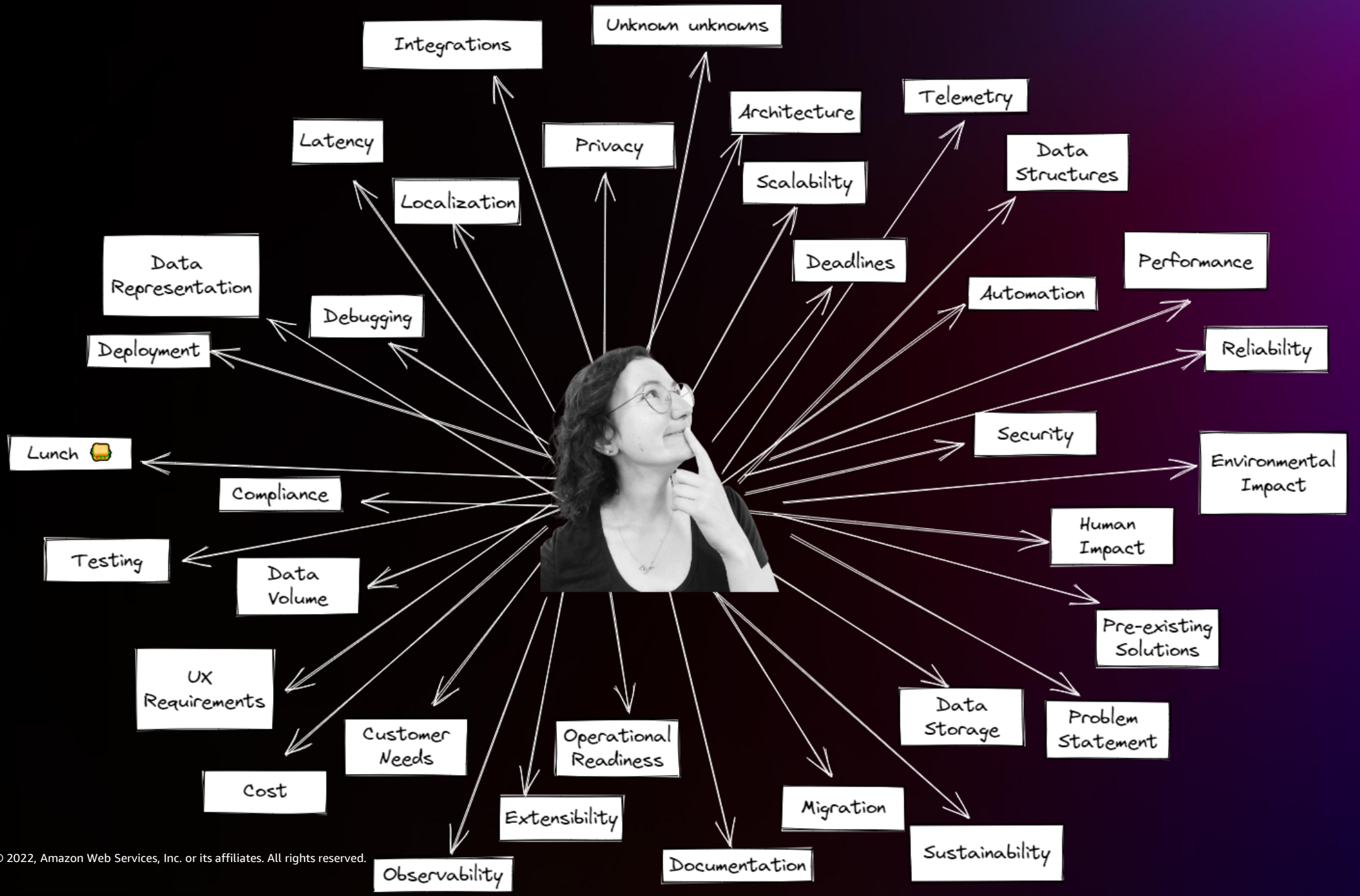
- Recap from AWS re:Inforce 2022
- You've deployed your service… now what?
  - Understanding your services
  - Managing your AWS account
  - Building a more collaborative path

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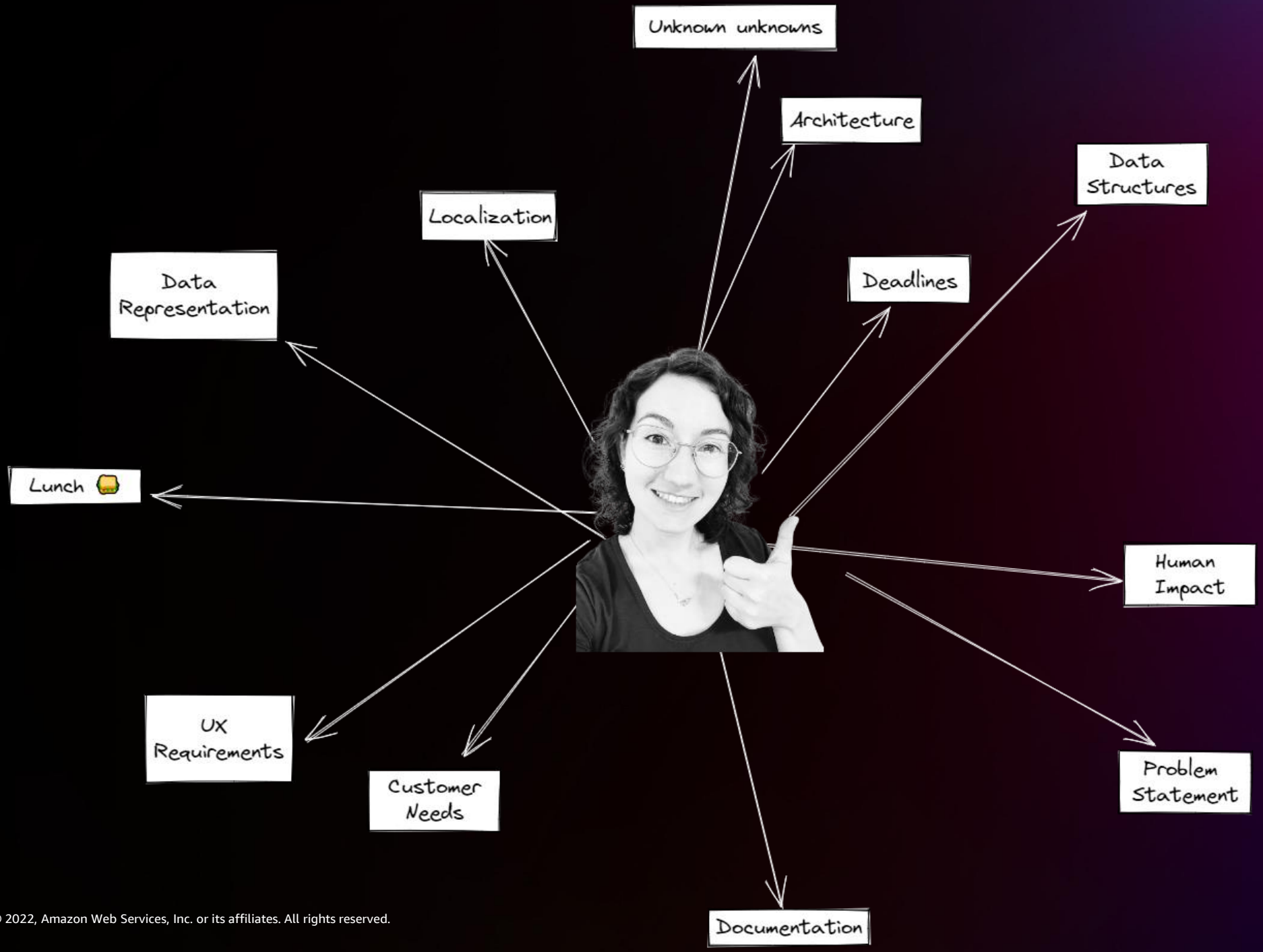


What do developers think about while building software?

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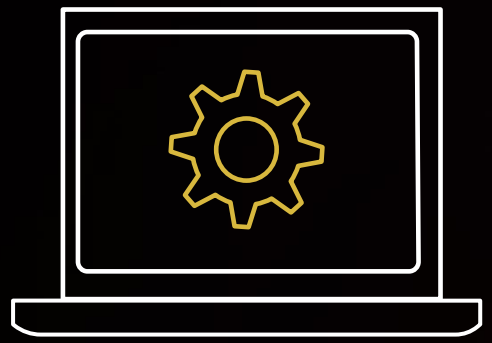


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Bridging the divide



Developers

- Application architecture
- Cloud resources
- Deployment strategies



Security

- Risk identification
- Mitigation strategies
- Compliance requirements

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Securing cloud-native applications predeployment

while reducing developer effort

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What can we do predeployment?

01

BUILD

knowledge in teams

02

GET BUY IN

before introducing new tools or processes

03

ANALYZE

services with the AWS Well-Architected Tool

04

AUTOMATE

security and add it to the build process or pipeline

05

USE THREAT MODELS

to collaborate with security and manage risk

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Securing cloud-native applications post-deployment

while still reducing developer effort

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DevOps and cognitive capacity

- How many roles are your developers expected to take on?
- How quickly do you expect your teams to move from one project to the next?
- How do you create time and space for technical debt and operational excellence?



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Understanding your services

- **What** are you deploying?
- **How** does it get deployed?
- **How** is the service monitored to ensure it's working as expected?
- **What** do normal operating conditions look like for your service?
- **When** is the last time you held an operational review?
- **How** do you know if you're meeting your service-level objectives?



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AWS Well-Architected Tool

6 PILLARS

- Reliability
- Operational Excellence
- Performance Efficiency
- Cost Optimization
- Sustainability
- Security

Optional lenses

Including AWS Serverless Application Lens

Custom lenses

Define your own best practices and share them across accounts



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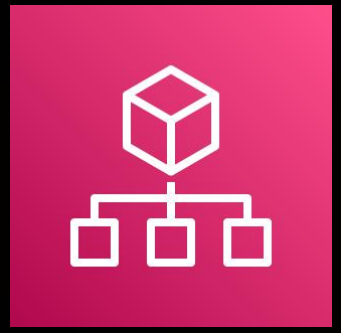
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How do you manage your AWS accounts?

- **How** do you ensure consistency across multiple AWS accounts?
- **How** do you ensure consistency across multiple AWS Regions?
- **What** do normal operating conditions look like for your AWS account?
- **How** do you manage updates when your baseline changes?

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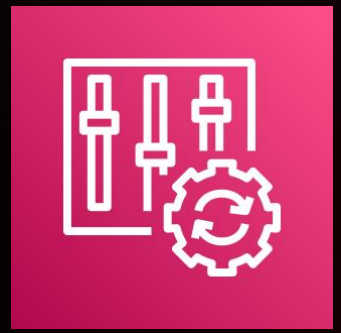
Finding common ground



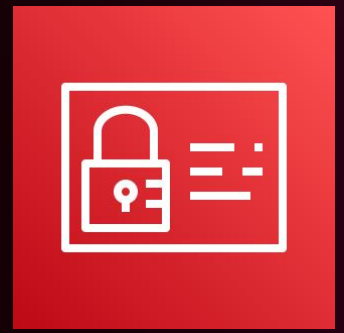
AWS Organizations



AWS Control Tower



AWS Config



AWS Identity and Access Management (IAM)



AWS Cost Explorer

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Building a more collaborative path

Auditing and compliance

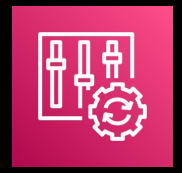
Identity and access management

Networking and data

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Building a more collaborative path

Auditing & Compliance



AWS Config



AWS CloudTrail

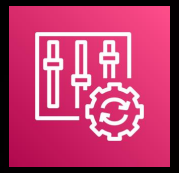


AWS Trusted Advisor

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Identity & Access Management

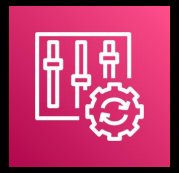


AWS Identity and Access Management

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Building a more collaborative path

Auditing & Compliance



AWS Config



AWS CloudTrail



AWS Trusted Advisor

Identity & Access Management



AWS Identity and Access Management

Networking & Data



Amazon VPC



AWS Firewall Manager



AWS Shield



AWS WAF

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What have you added to your toolbox?



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Thank you!

Madeline Van Der Paelt

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