



MISTI PRESENTS

InfoSecWorld

Conference & Expo 2018

GDPR FRIENDLY BEST PRACTICES FOR IT ARCHITECTS & IMPLEMENTERS

Sarah Squire

Senior Technical Architect, Ping Identity

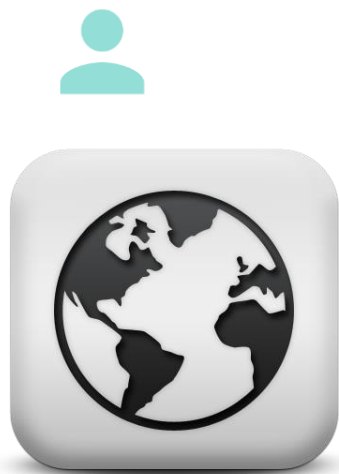
@SarahKSquire





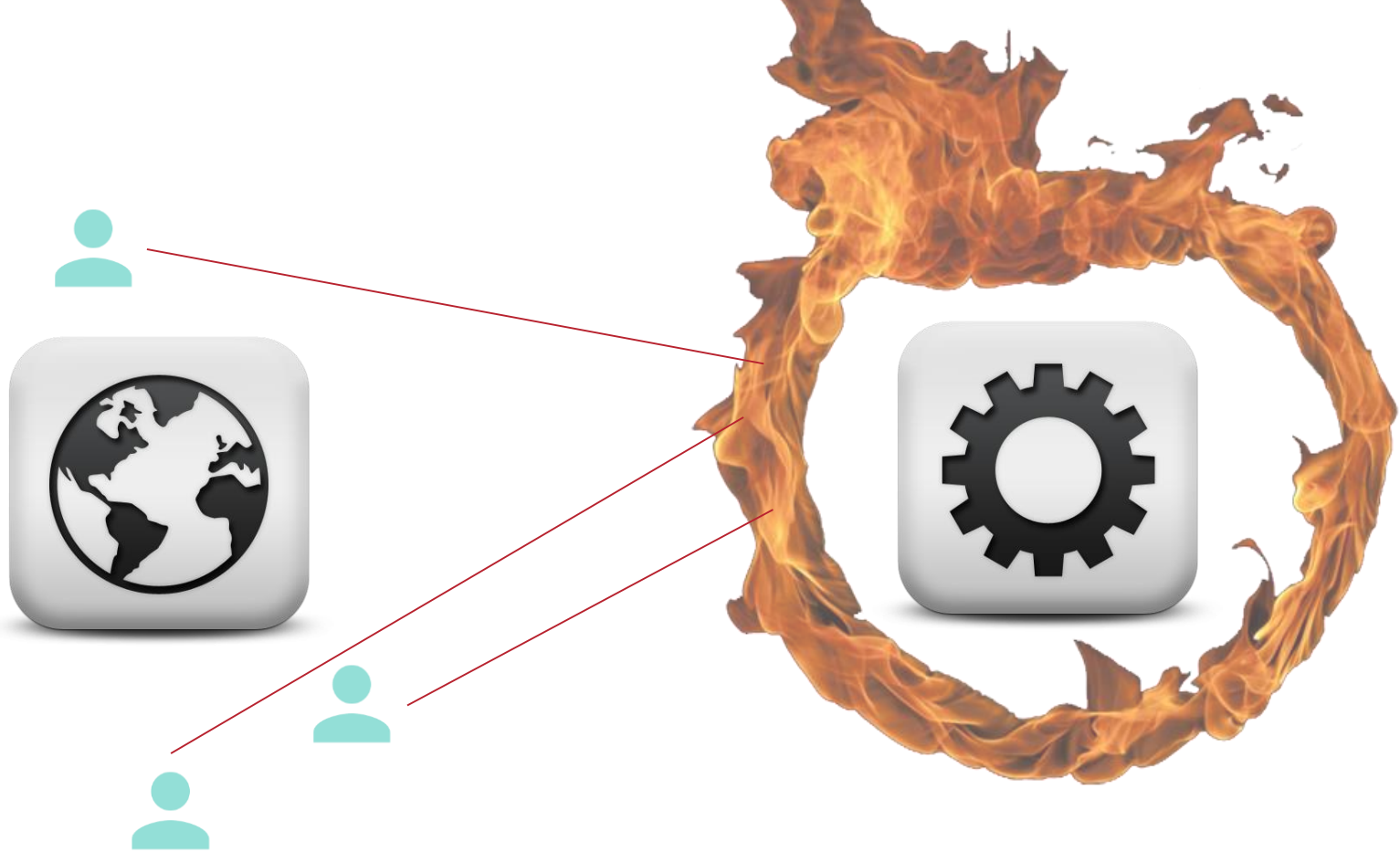


And then there was the
internet







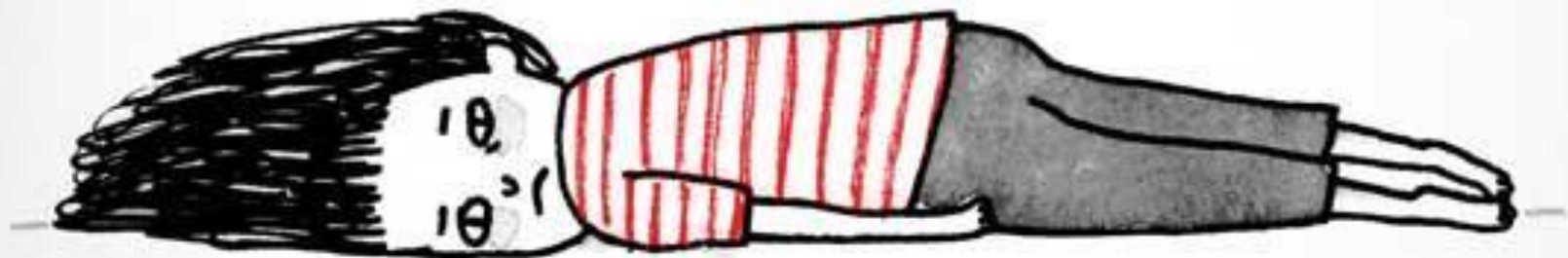








NOPE.



GDPR can help











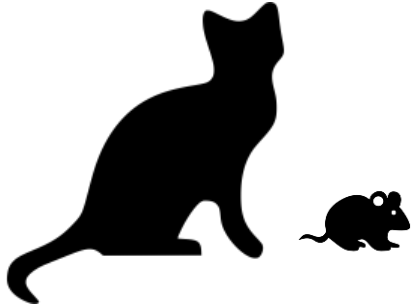


The GDPR Plan

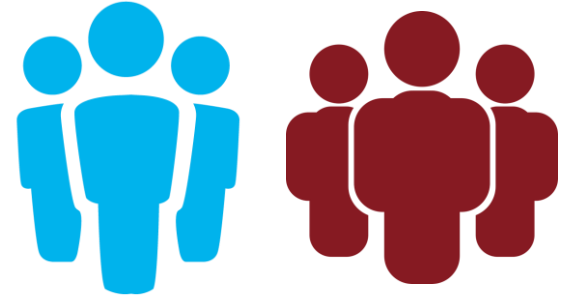
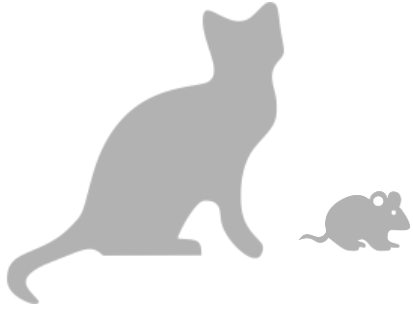
- Why it matters
- Identity and access management best practices
- Cloud computing best practices
- Long-term strategy

This approach has to have a different analogy

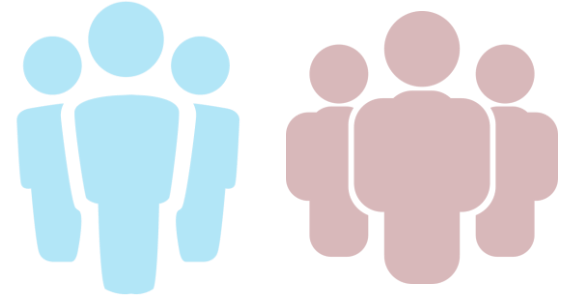
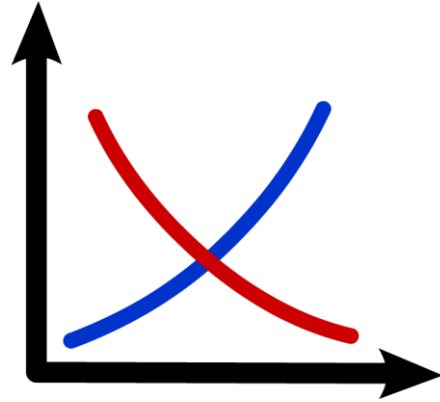
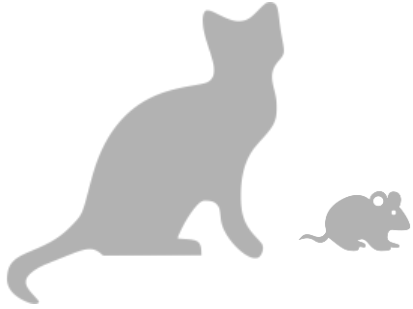
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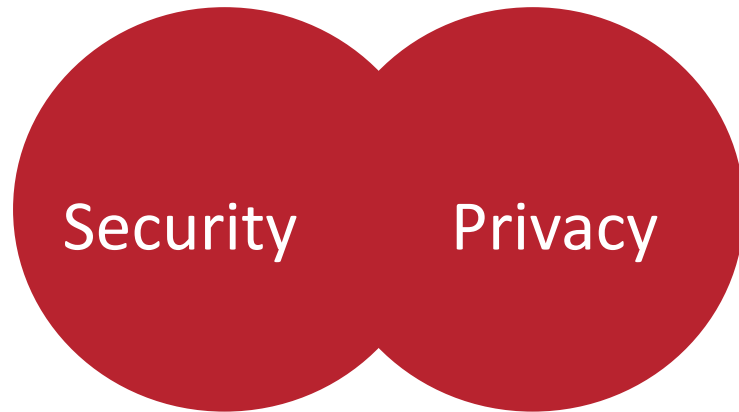


This approach has to have a different analogy



Identity and Access Management







Identity

Security

Privacy

Today

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This
Week

A large, empty rounded rectangular box with a thin red border, intended for notes or a list related to the 'This Week' category.

This Year

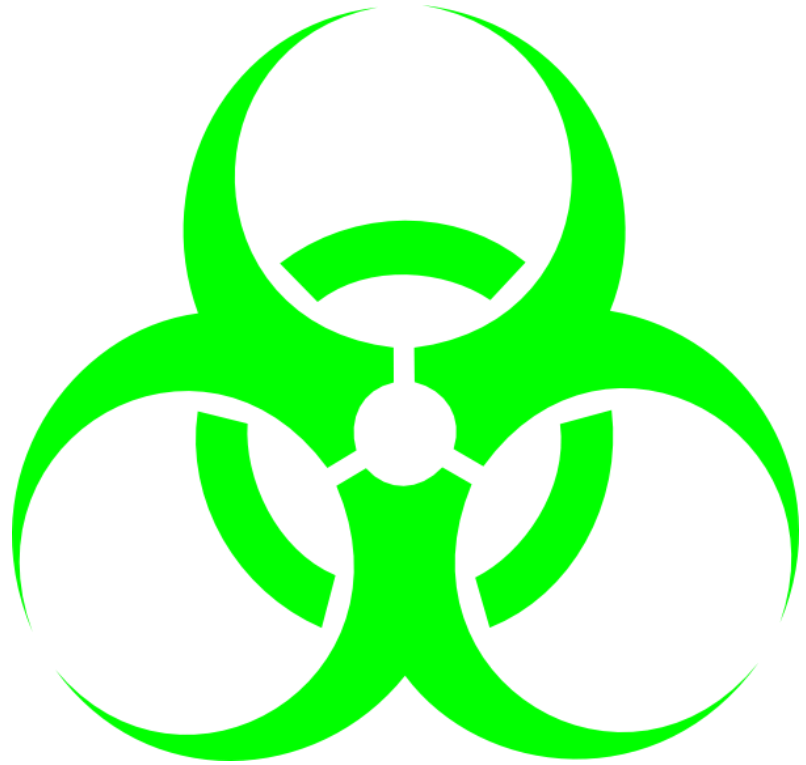
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Today

Assume compromise will happen



personally
identifiable
information



 NO

 ONE

 GETS

 EXPORT

 PERMISSIONS

Today

1. Assume
Compromise
2. pii == toxic
3. No One Gets
Export
Permissions

This Week

This Year

This
Week

Permission Audit

People

Permission Audit

People

- same people?

Permission Audit

People

- same people?
- same jobs?

Permission Audit

People

- same people?
- same jobs?

Applications and APIs

Permission Audit

People

- same people?
- same jobs?

Applications and APIs

- still used?

Permission Audit

People

- same people?
- same jobs?

Applications and APIs

- still used?
- still needs the same permissions?

Information Audit

Private or Personally Identifiable Information

Information Audit

Private or Personally Identifiable Information

- where is it?

Information Audit

Private or Personally Identifiable Information

- where is it?
- do we still need it?

Information Audit

Private or Personally Identifiable Information

- where is it?
- do we still need it?
- is there data that can be correlated and become personally identifiable?

Information Audit

Private or Personally Identifiable Information

- where is it?
- do we still need it?
- is there data that can be correlated and become personally identifiable?
- who has access?

Information Audit

Private or Personally Identifiable Information

- where is it?
- do we still need it?
- is there data that can be correlated and become personally identifiable?
- who has access?
- can it be better protected?

Information Audit

Private or Personally Identifiable Information

- where is it?
- do we still need it?
- is there data that can be correlated and become personally identifiable?
- who has access?
- can it be better protected?
- do we need to be collecting it anymore?

Tabletop Exercise

Tabletop Exercise

Direct breach

Tabletop Exercise

Direct breach

- Information

Tabletop Exercise

Direct breach

- Information
- Network

Tabletop Exercise

Direct breach

- Information
- Network

Indirect breach

Tabletop Exercise

Direct breach

- Information
- Network

Indirect breach

- OAuth Application Permissions

Tabletop Exercise

Direct breach

- Information
- Network

Indirect breach

- OAuth Application Permissions
- SSH keys

Tabletop Exercise

Direct breach

- Information
- Network

Indirect breach

- OAuth Application Permissions
- SSH keys
- Shared file permissions

Today

1. Assume Compromise
2. pii == toxic
3. No One Gets Export Permissions

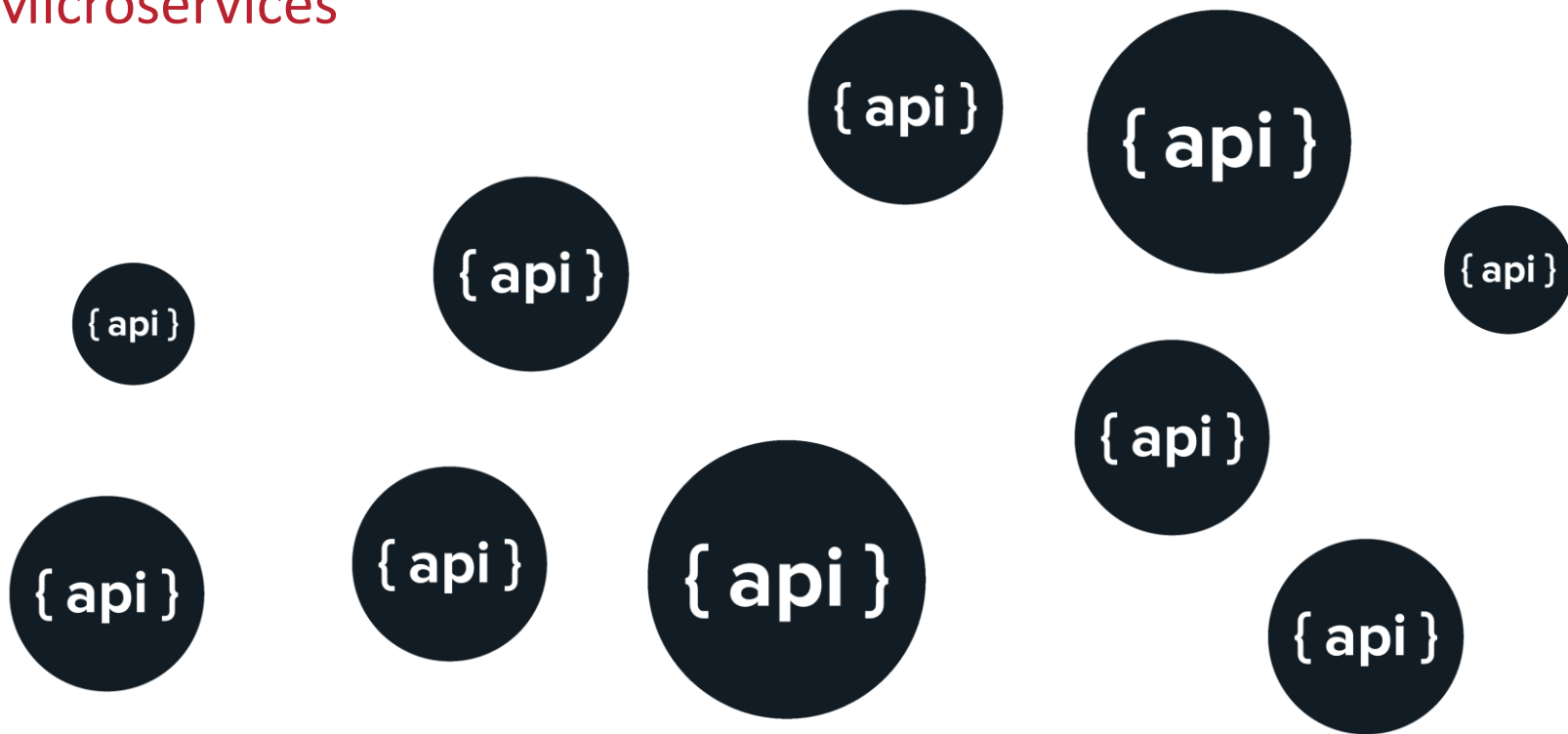
This Week

1. Permission Audit
2. Information Audit
3. Tabletop Exercise

This Year

This Year

Microservices



Internal Notification of Elevated Access



slackbot 9:22 AM

Jorge has logged in as administrator and added a new user

Hire a Hacker



Today

1. Assume Compromise
2. pii == toxic
3. No One Gets Export Permissions

This Week

1. Permission Audit
2. Information Audit
3. Tabletop Exercise

This Year

1. Microservices
2. Internal Publication of Elevated Access
3. External Penetration Test



Today

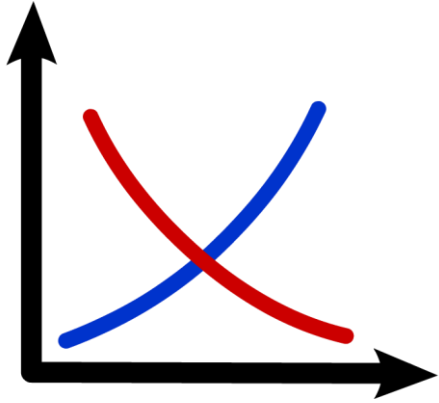
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2. pii == toxic
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1. Permission Audit
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1. Microservices
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3. External Penetration Test







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THANK YOU

PLEASE FILL OUT YOUR EVALUATIONS!

Sarah Squire

Senior Technical Architect, Ping Identity

@SarahKSquire