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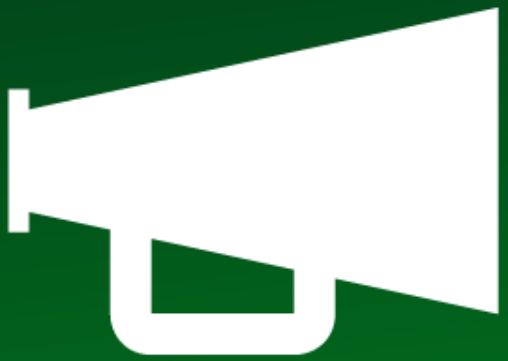

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When devops meets security

Michael Brunton-Spall

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”I'm from the Government and I'm here to help”

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”I'm from security and I'm here to help”

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Government Digital Service

goto; conference

Simpler, Clearer, Faster

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The state of information security in 2015

goto; conference

BS7799-1:1999

goto; conference

ISO27001:2005

goto; conference

Approval to operate

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Accreditation

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Certification

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PCI

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What does this look like?

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Traditional model

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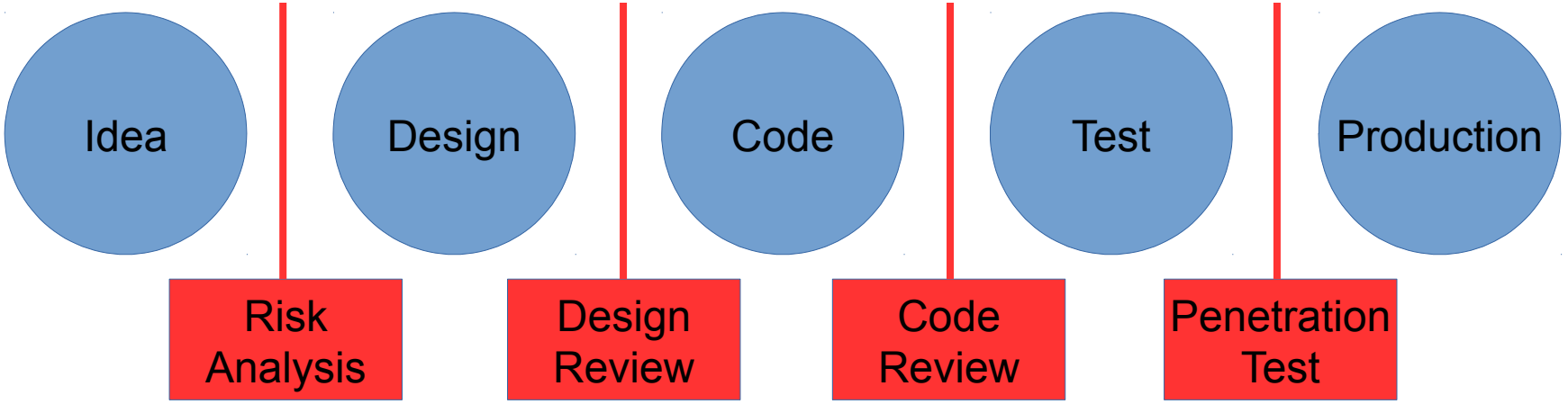

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How do we deal with changes?

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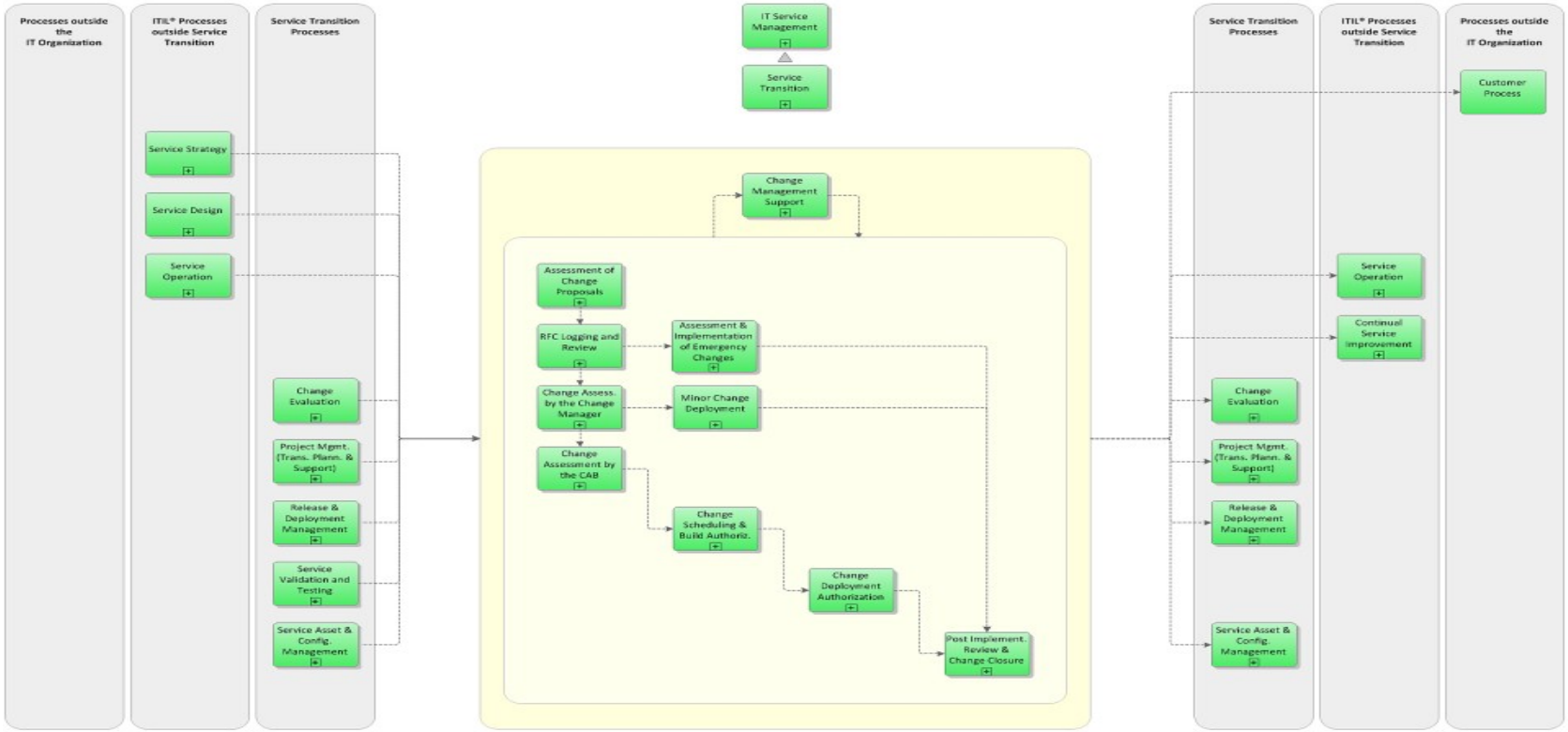
it process maps

ITIL Change Management



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Agile changes everything

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Only do what's needed now

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Release It!

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MVP and iterate

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Focus on flow and cycle time

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A security nightmare!

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A brave new world for security

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Security needs to be an enabler

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We reviewed agile projects across government

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Biggest consistent finding?

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There is no consistency

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Most teams don't know how to do this

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So what can we do?

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Principles over rules

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The UK Government published 8 principles

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1 - Accept uncertainty

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2 - Security as part of the team

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3 - Understand the risks

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4 - Trust decision making

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5 - Security is part of everything

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6 - User experience is important

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7 - Audit decisions

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8 - Understand big picture impact

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But what does that mean?

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Imagine a new project

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Choose security model that's appropriate

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At project inception

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Understand the threats

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Educate decision makers to risks

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Make risk decisions, per story, in the team

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What do you do about it?

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Avoid

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Transfer

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Accept

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Mitigate

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Temporarily Accept

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What sort of controls might we use?

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Active countermeasures

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Deter, Detect, Prevent

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Reactive countermeasures

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Correct, Respond, Recover

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Traditional security people understand this

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But there's more

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Anti-personas

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Misuse cases

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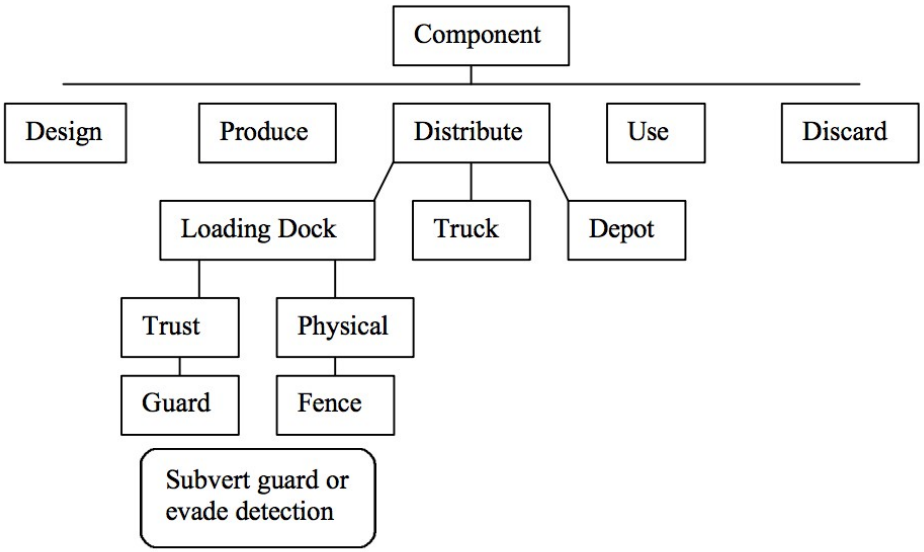
Attack trees



https://www.schneier.com/paper-secure-methodology.pdf

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Red teams

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Automated penetration testing

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Automated
Integrated
Repeatable

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