

SECURITY DESIGN

define How to design a secure system? Brief recap of last time: before considering how to design a secure system, need to define security

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define
How to design a secure system?
one that meets a specific security policy

How to define a security policy?

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To define security, need to define a security policy

WHAT SHOULD POLICY ADDRESS?

Threats (who is the adversary?)

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WHAT SHOULD POLICY ADDRESS? Threats Vulnerabilities (where can system break?)

Threats Vulnerabilities Likelihood (might this happen?)

WHAT SHOULD POLICY ADDRESS?

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Threats
Vulnerabilities
Likelihood
Impact (what if bad things happen?)

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WHAT SHOULD POLICY ADDRESS?

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Threats
Vulnerabilities
Likelihood
Impact
Protection (what does it cost?)

8

define How to design a secure system? one that meets a specific security policy How to define a security policy? threats, vulnerabilities, likelihood, impact, and cost used to create a threat model



