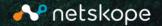
2022-10-13

Your Data Is Everywhere: Your Security Should Be, Too

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Menu

Some interesting data

Context is the new perimeter

Dimensions of defenses

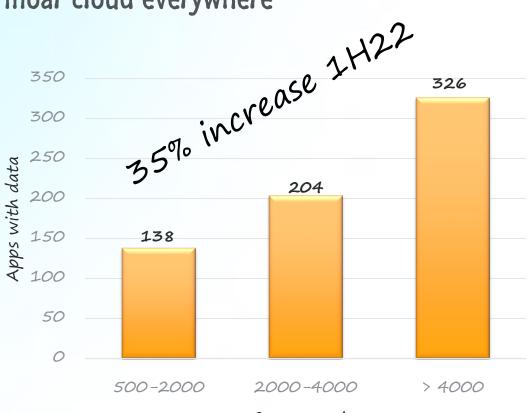
Recommendations



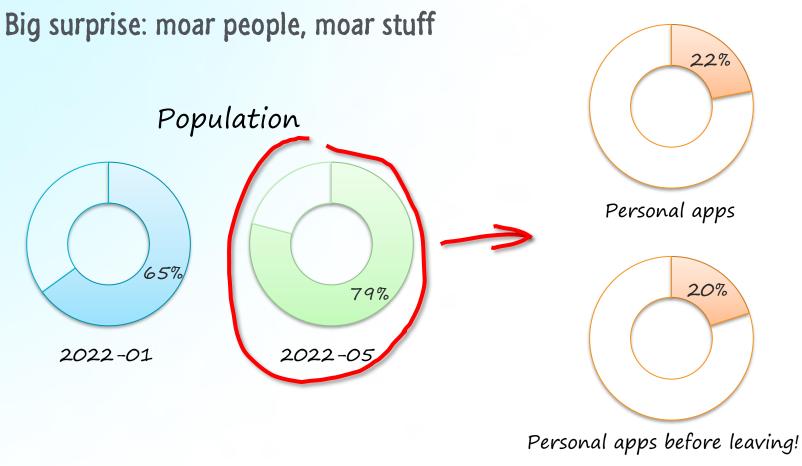




Big surprise: moar cloud everywhere



Company size

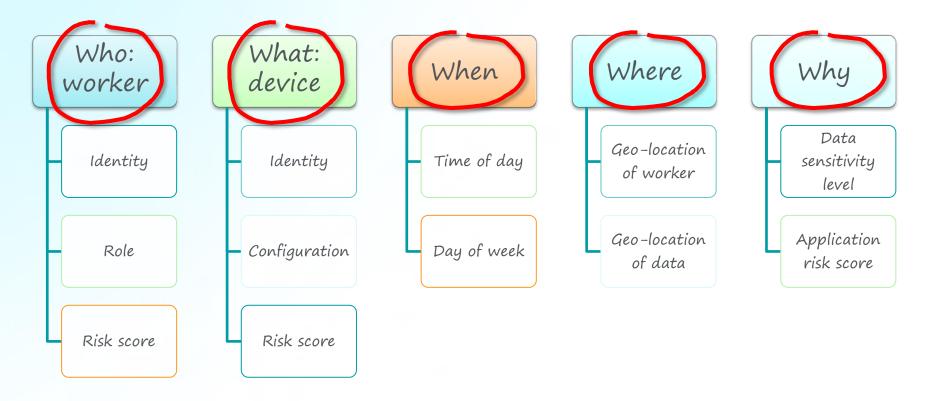


Context Is The New Perimeter

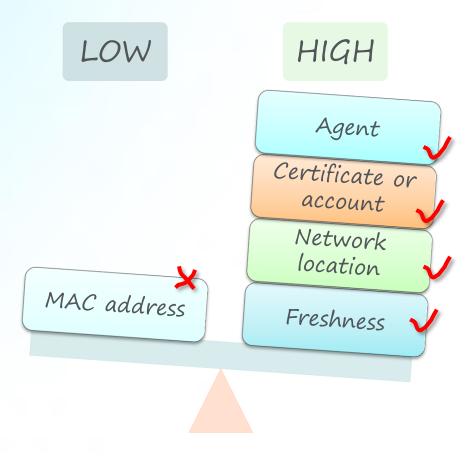




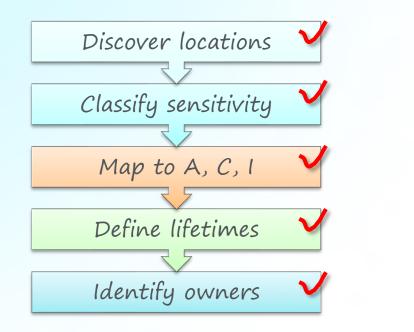
Signals indicating context

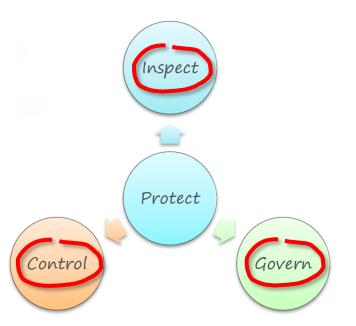


Example: device context

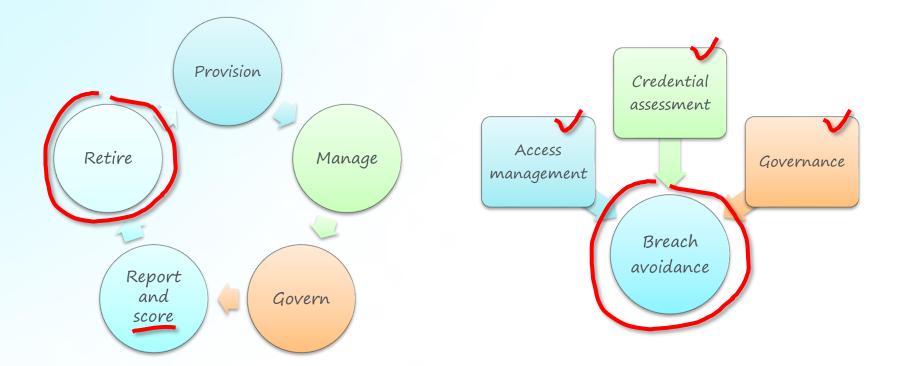


Data context



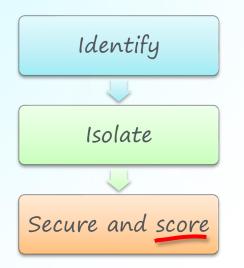


Identity context



Endpoint context

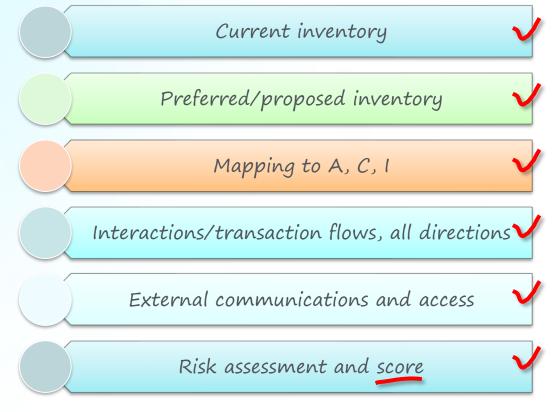
MANAGED DEVICES



UNMANAGED DEVICES

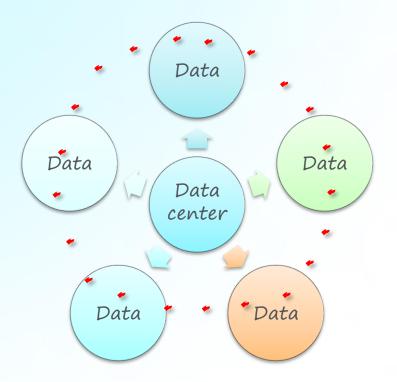


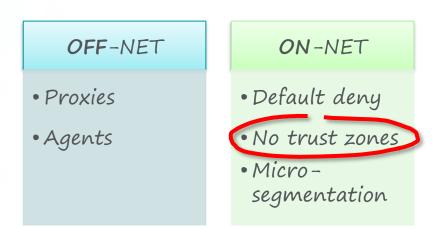
Application context





Network context



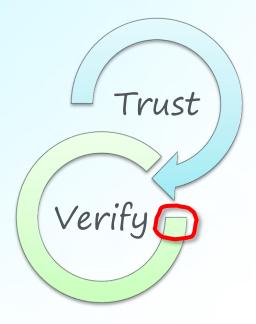


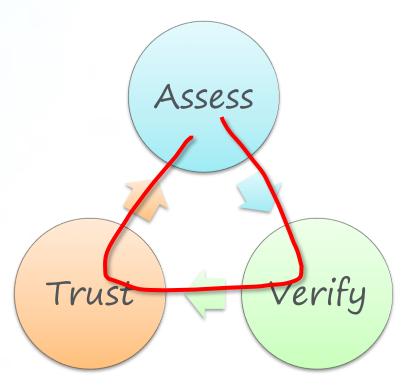
context + scores = trust_level

Component	Context		Control	
Data	Sensitivity level	Risk scores	Encryption	daptive policy
Identity	Employee, contractor, partner		AuthN / authZ	
Endpoint	Managed, unmanaged		Certificate	
Application	Approved, unapproved		Entitlements	
Network	Location		Segmentation	\checkmark
			L	

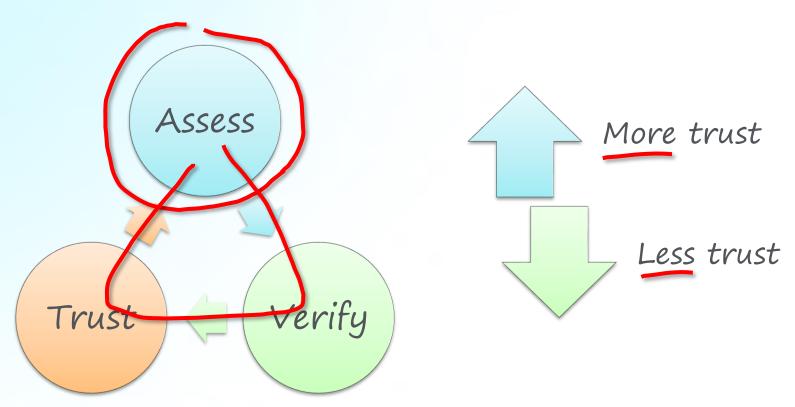


The trust problem

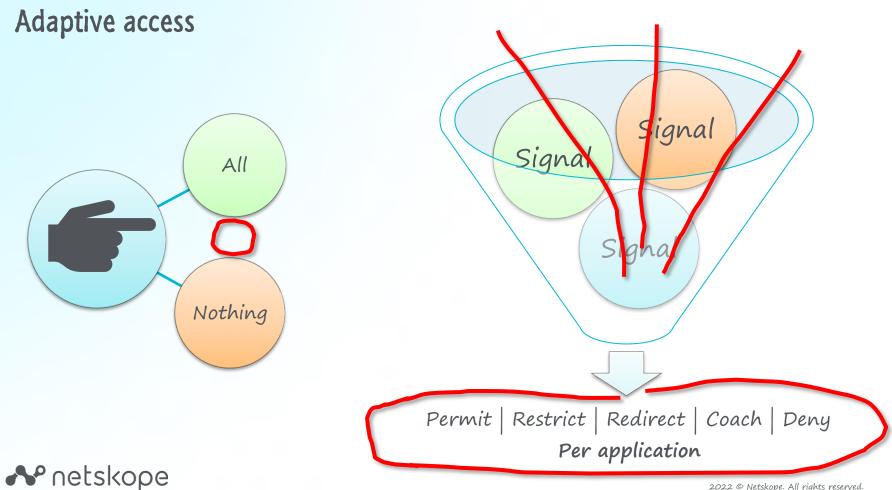




Continuous adaptive trust







Dimensions Of Defenses and Recommendations





Goals

Neutralize threats

• Deflect attackers from your assets

Protect data

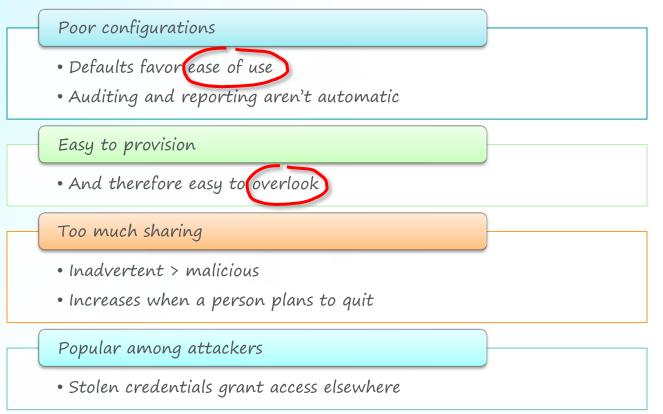
• Control where information goes

Demonstrate good governance

• Provide evidence to boards, auditors, regulators, customers







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SaaS Protections

Standardize security posture

•Assess, refine, and document configuration (access, audit)

•Define policy for access by unmanaged devices

Monitor unmanaged application use

•Coach users toward approved applications

•Require business justification and business unit risk acceptance

•Limit actions in medium-risk applications; block high-risk applications

Establish sharing policy

•Disable default external sharing

•Implement self-service external sharing provision with expiration

•Detect uncharacteristically excessive downloads and uploads

Move beyond passwords

•Eliminate "attractiveness" to attackers

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SaaS Further governance

Compliance

- Provider assessment (=) compliant usage
- Verify service can be used in ways that allow regulatory compliance, including data residency

Business continuity

- Confirm data and metadata ownership
- Enable retention capabilities
- Determine whether to investigate backup options





Browser attacks

• Takeovers: cookies, sessions, tokens

• MITM; leaky extensions; local proxies

Risky sites

- Ransomware and malware delivery
- Content that violates policies and laws

Email attacks

- Forged or unauthenticated origins
- Social engineering

retskope

Web Protections

Protect browsers

- Disallow unmonitored access to the non-business web
- Implement forms of isolation

Control destinations

- Verify safety and validity of every domain and URL
- Scan all downloads for presence of malware
- Scan all uploads for presence of sensitive information
- Constrain or block activities on suspicious sites

Harden email

- Quarantine unauthenticated messages
- Limit or block external delivery of sensitive information

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Private Threats

Exposed applications and services

• "Open firewall for X" removes most protection for X

• Connect-then-authenticate is a bad internet pattern

Remote entry (implicit trust)

• Full network connectivity facilitates lateral movement

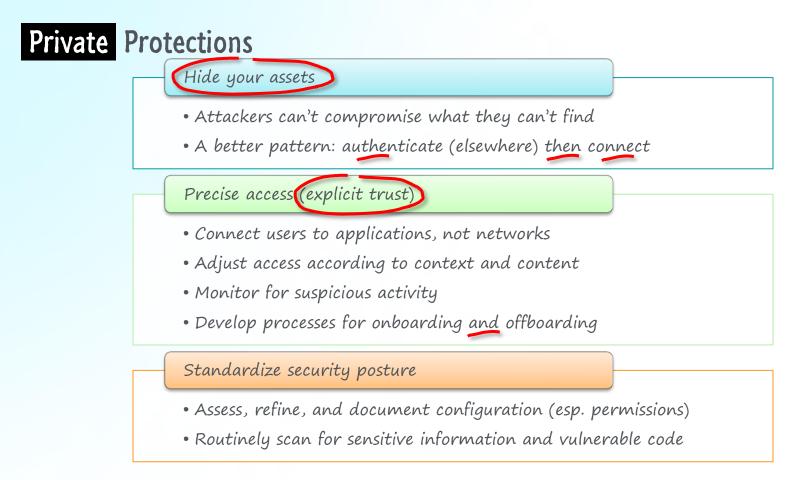
• Third-party access is difficult to govern

Poor configuration

• IaaS defaults are better, but mistakes still happen

• IaaS access management can be confusing

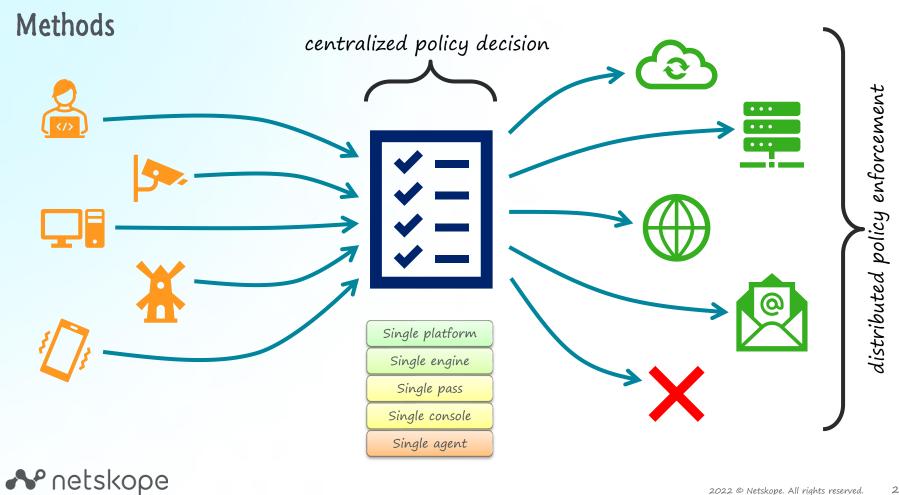




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2022-10-13

Thank You

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