



Applied Zero Trust Identity

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Ping Identity

Agenda

The Modern Threat Landscape

Zero Trust Architecture

Zero Trust Identity Controls

Zero Trust Examples

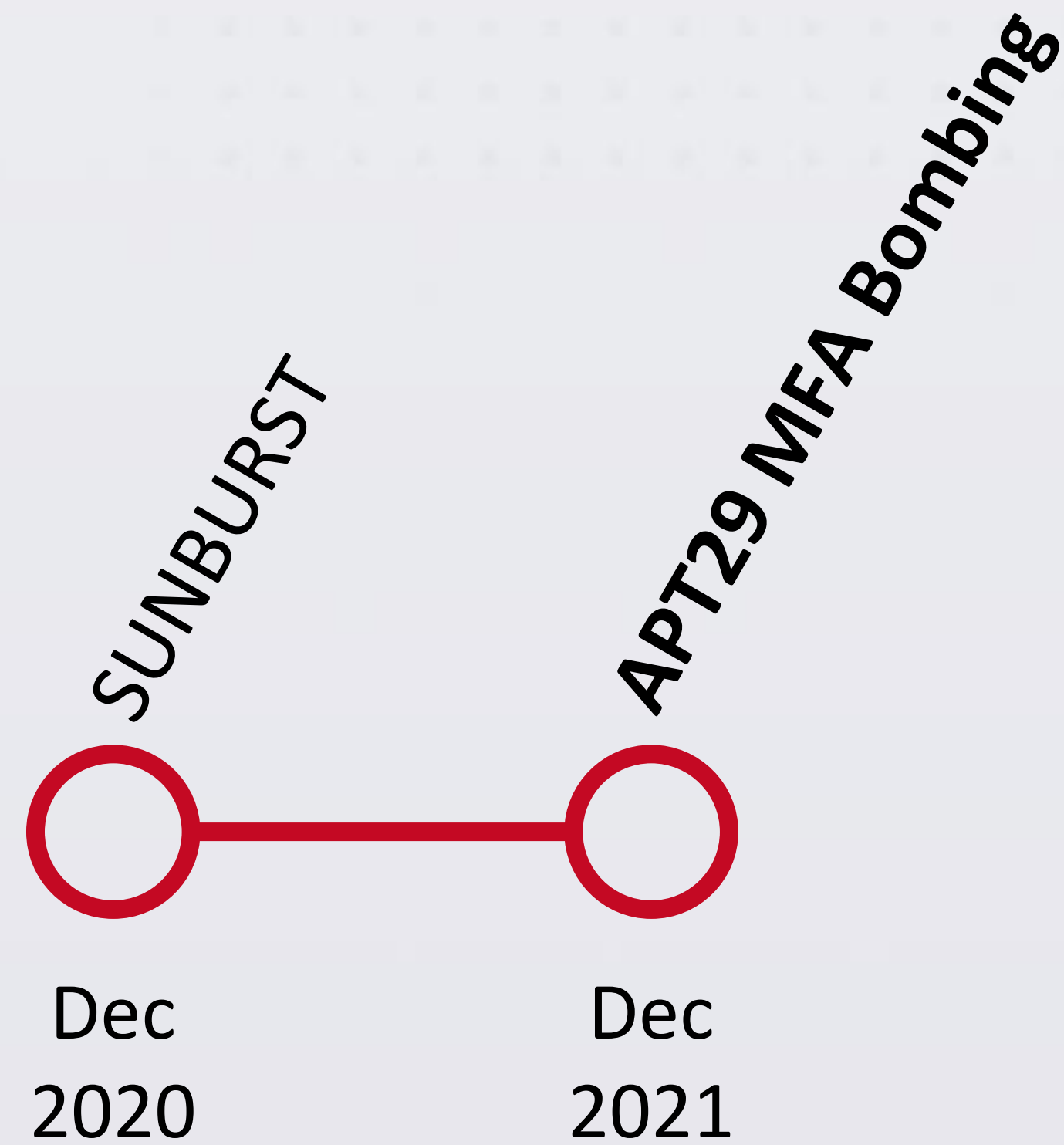
The Modern Threat Landscape

The Last Three Years



 **SUNBURST**
Dec
2020

The Last Three Years



The Last Three Years



The Last Three Years



The Last Three Years



The Last Three Years



Zero Trust Architecture

Traditional Security

Where are you coming from?



Zero Trust Architecture

Who are you and **what** are you doing?



Tenets of Zero Trust

Strong
Authentication



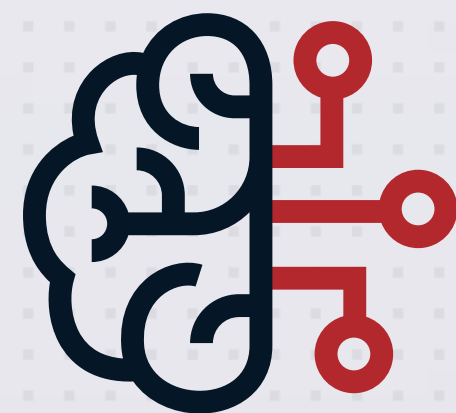
Trusted
Devices



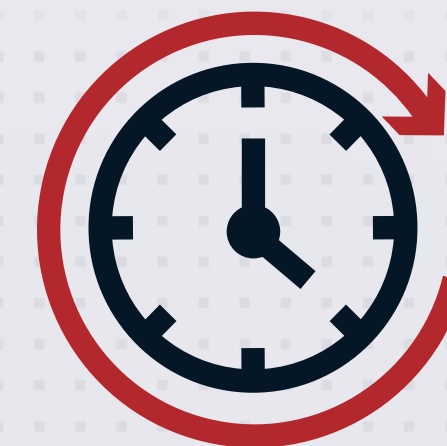
Appropriately
Authorised



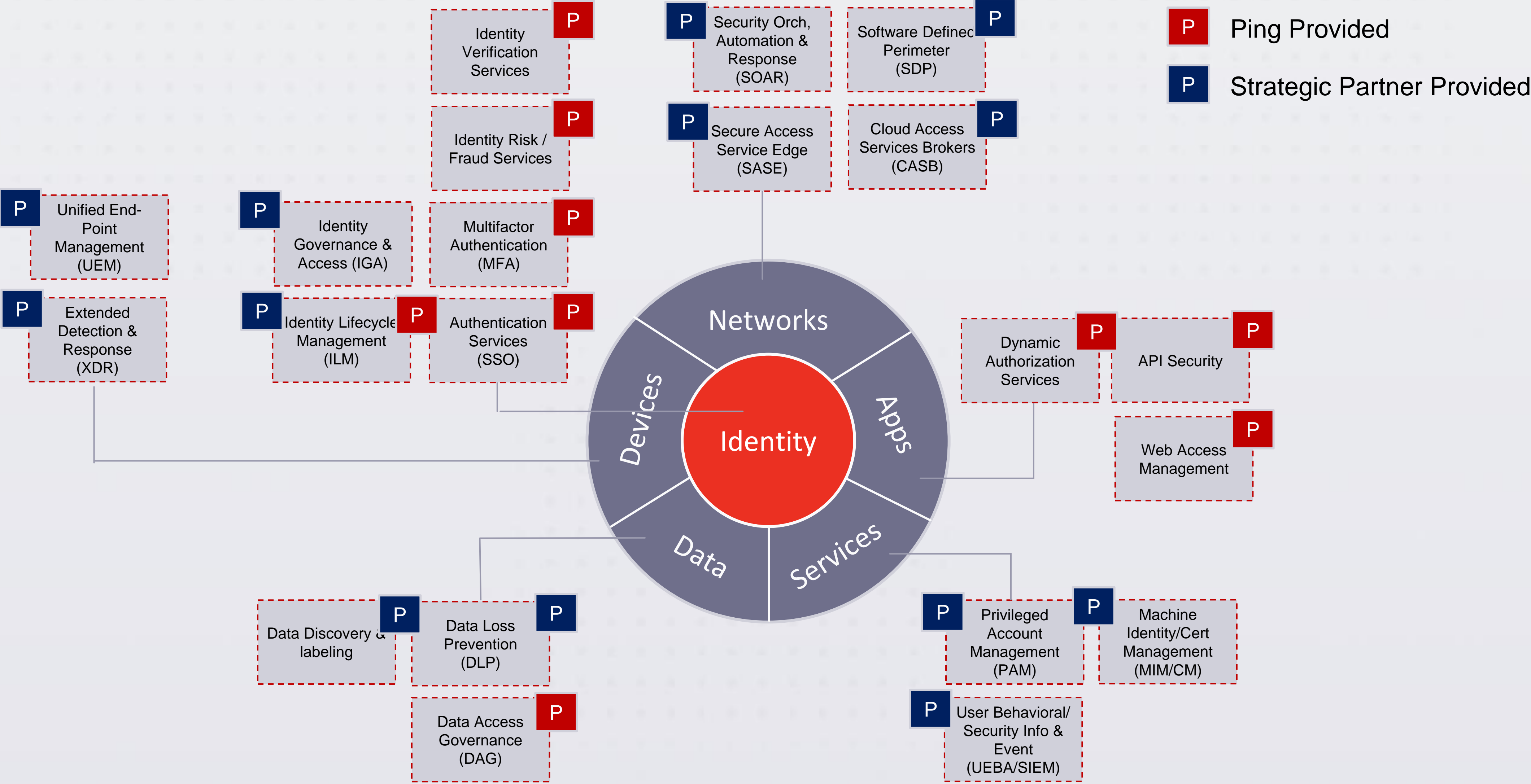
Intelligent
Controls



Continual
Evaluation



Zero Trust Ecosystem



Identity Controls

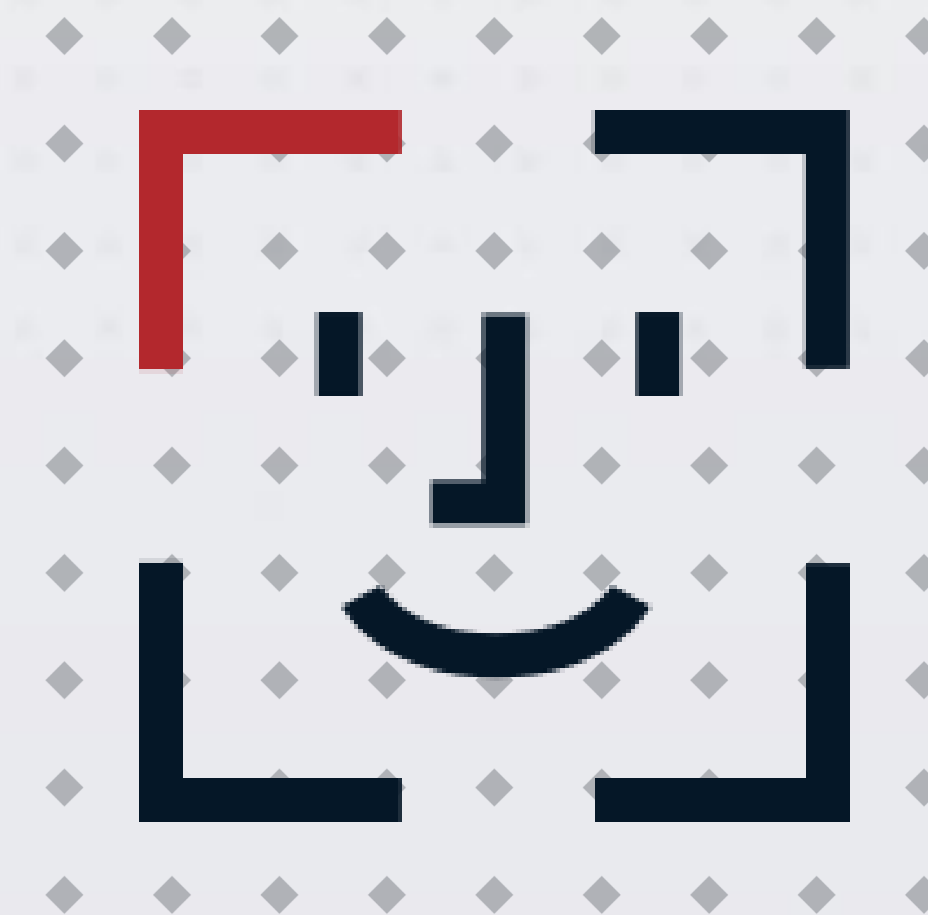
Strong Authentication



**Trusted Channels
+
Context Rich MFA**

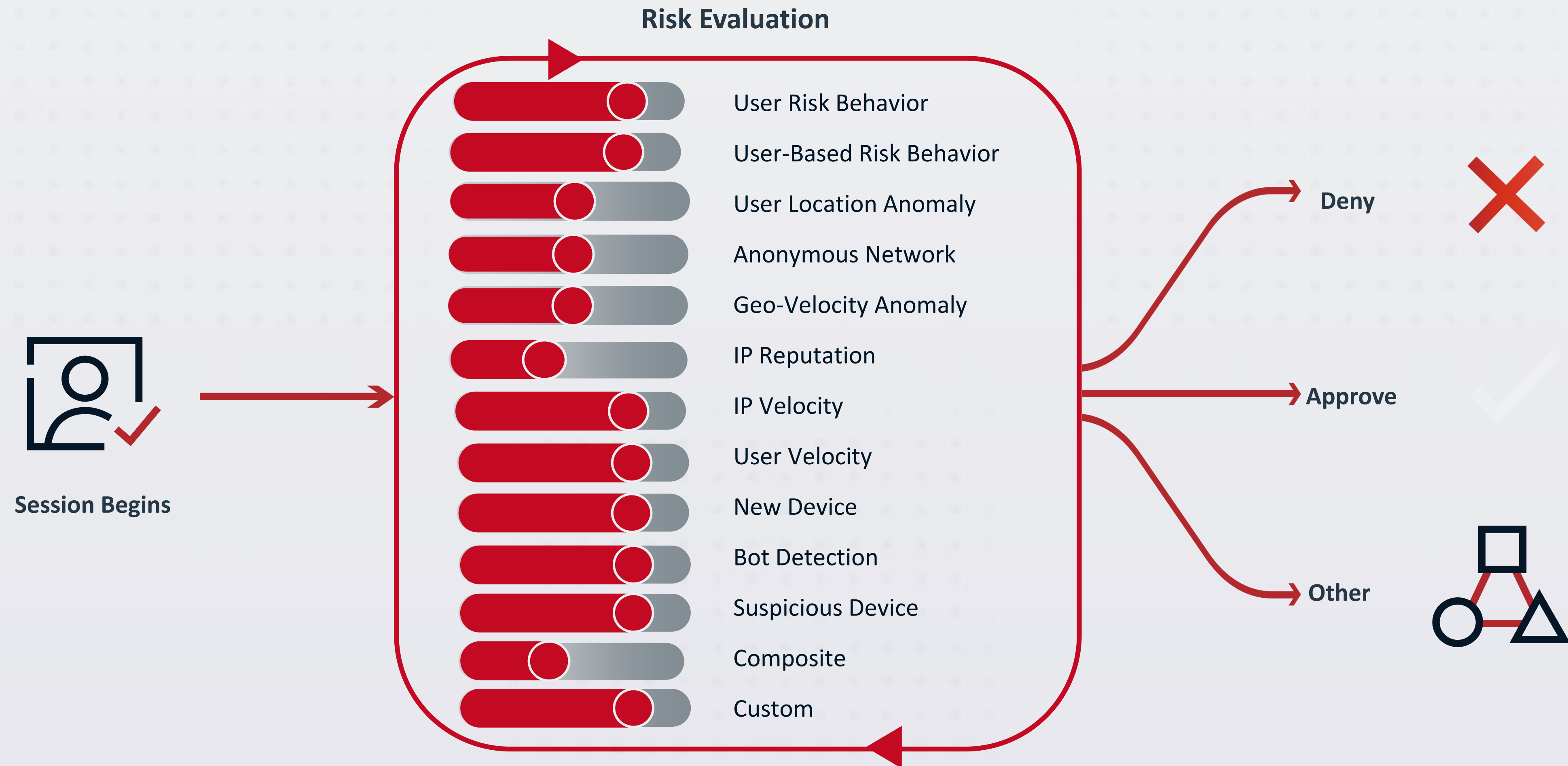


Yubikeys

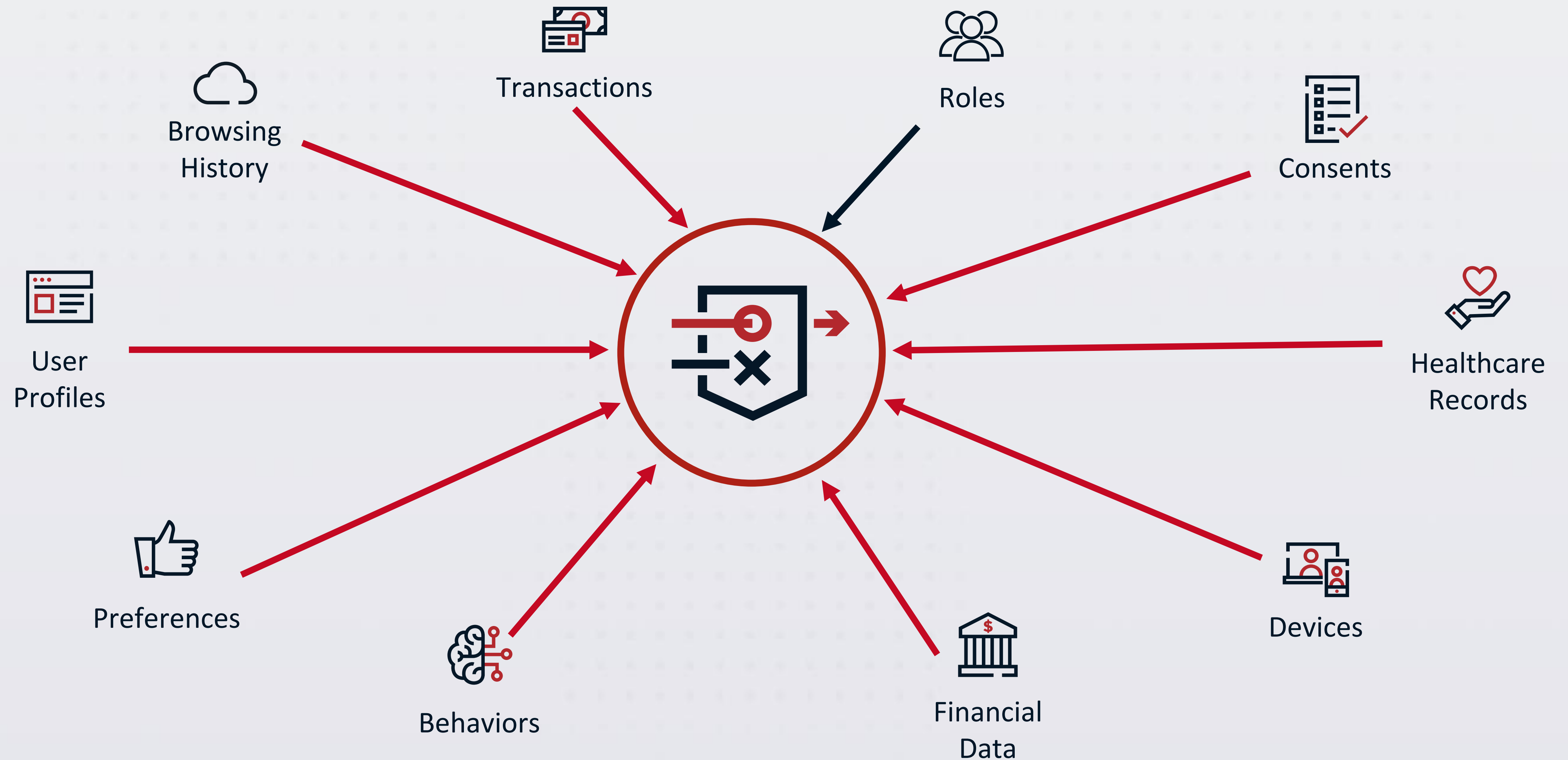


**FIDO2
Biometrics**

Authentication Risk

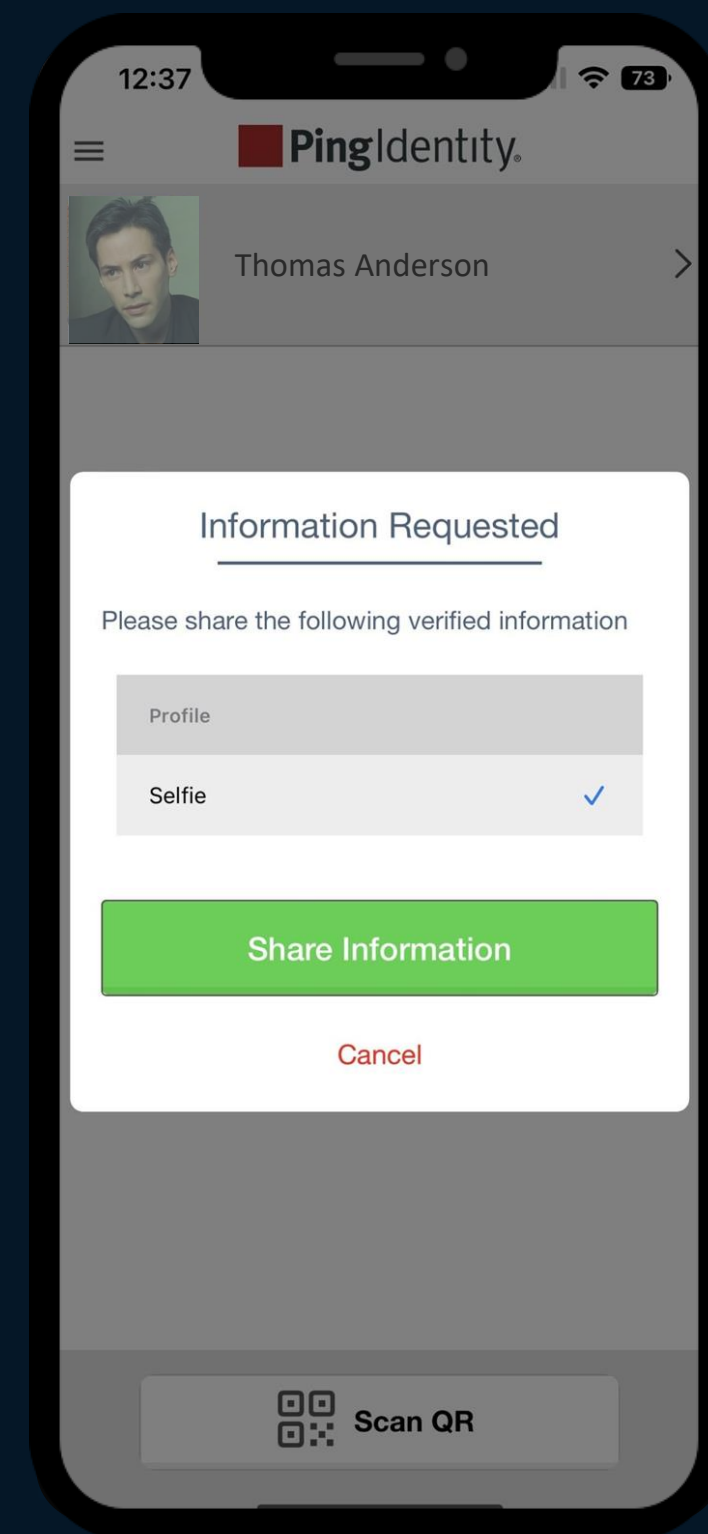


Dynamic Authorisation

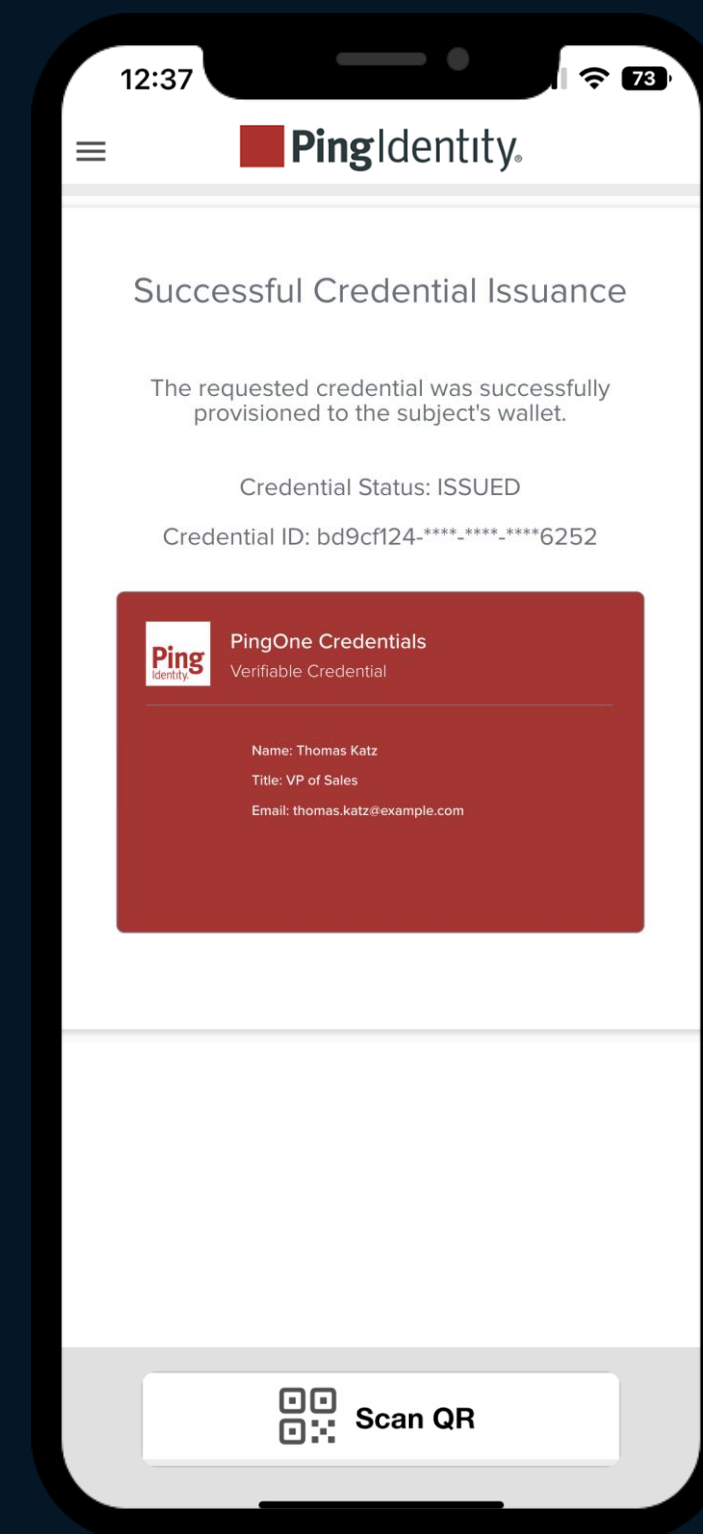


Verifiable Credentials

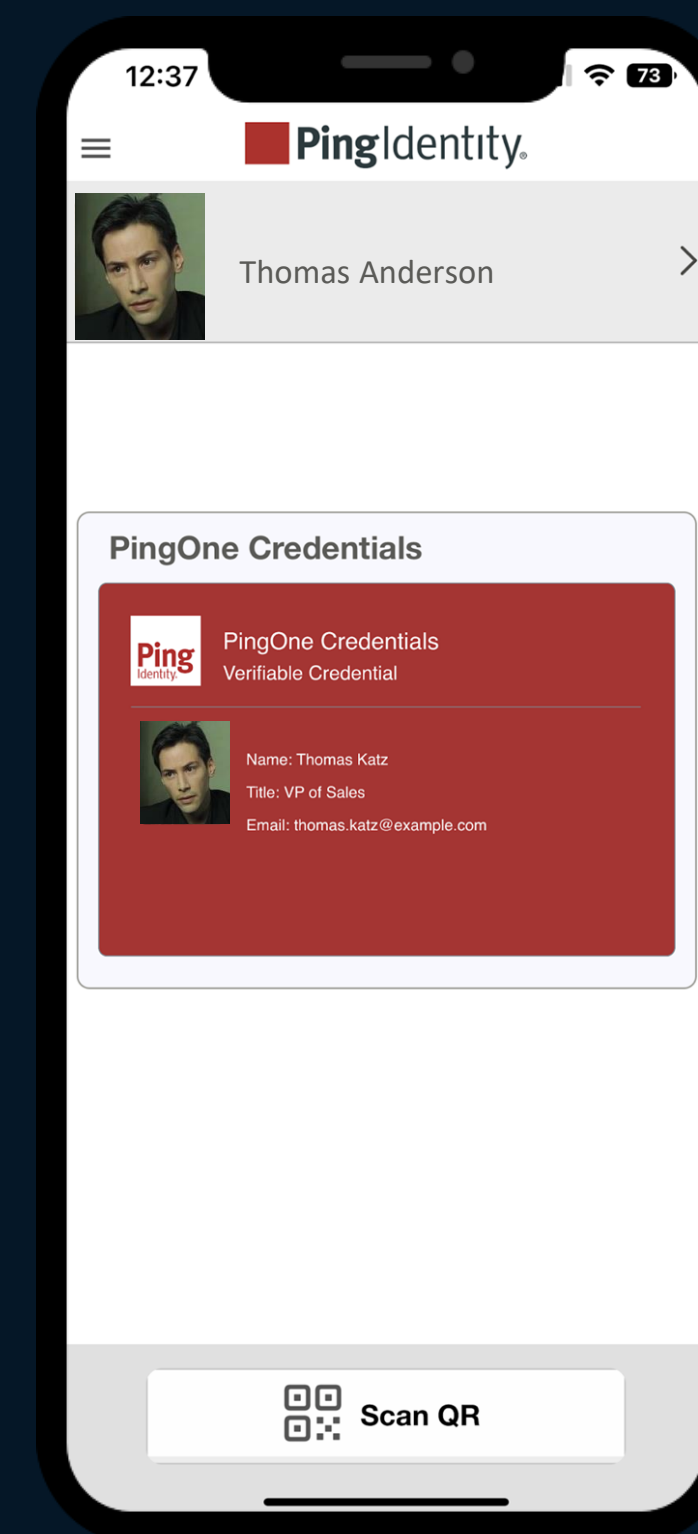
Request



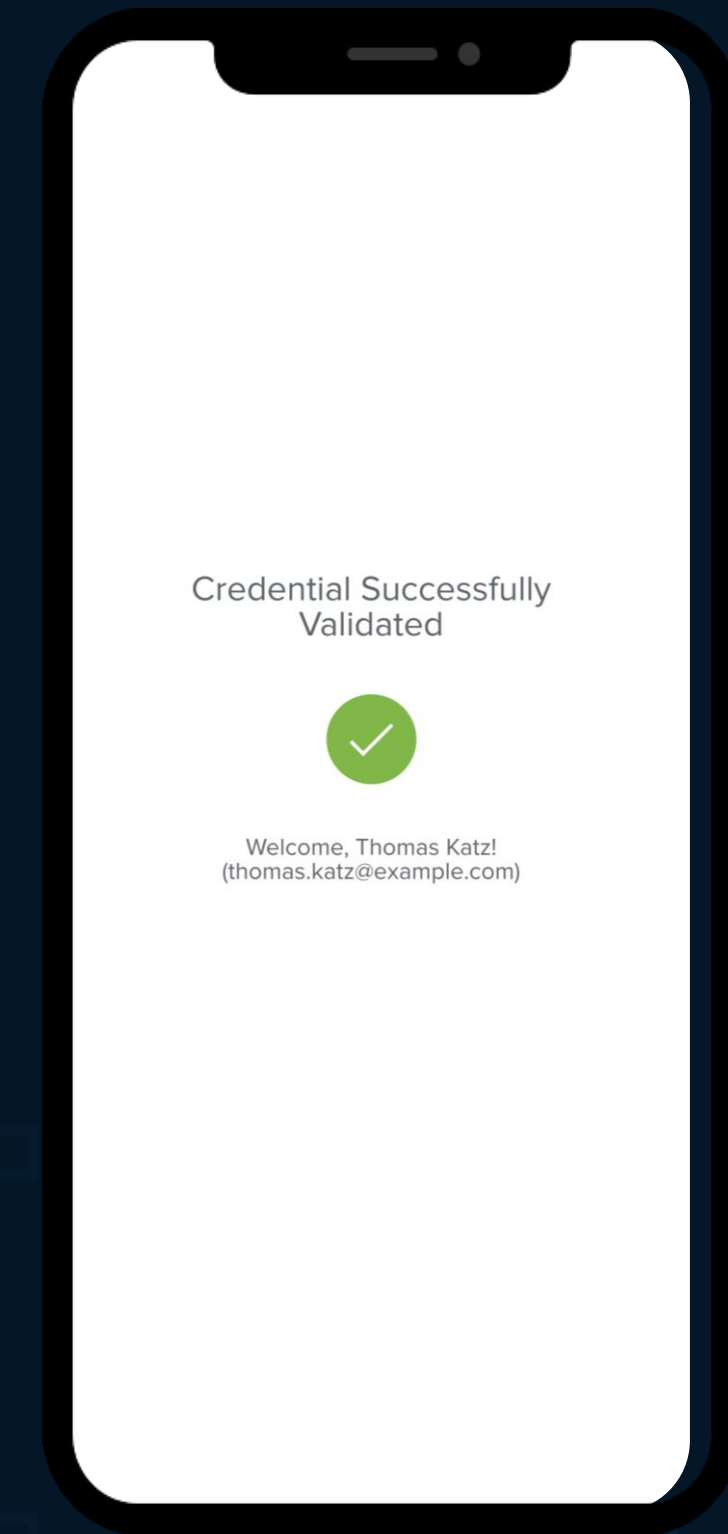
Create



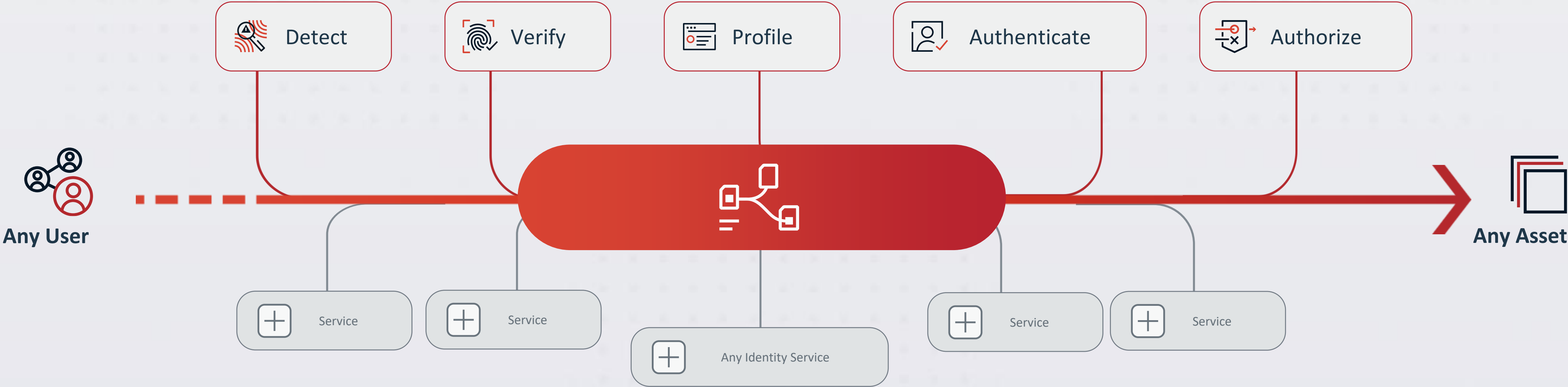
Store



Present



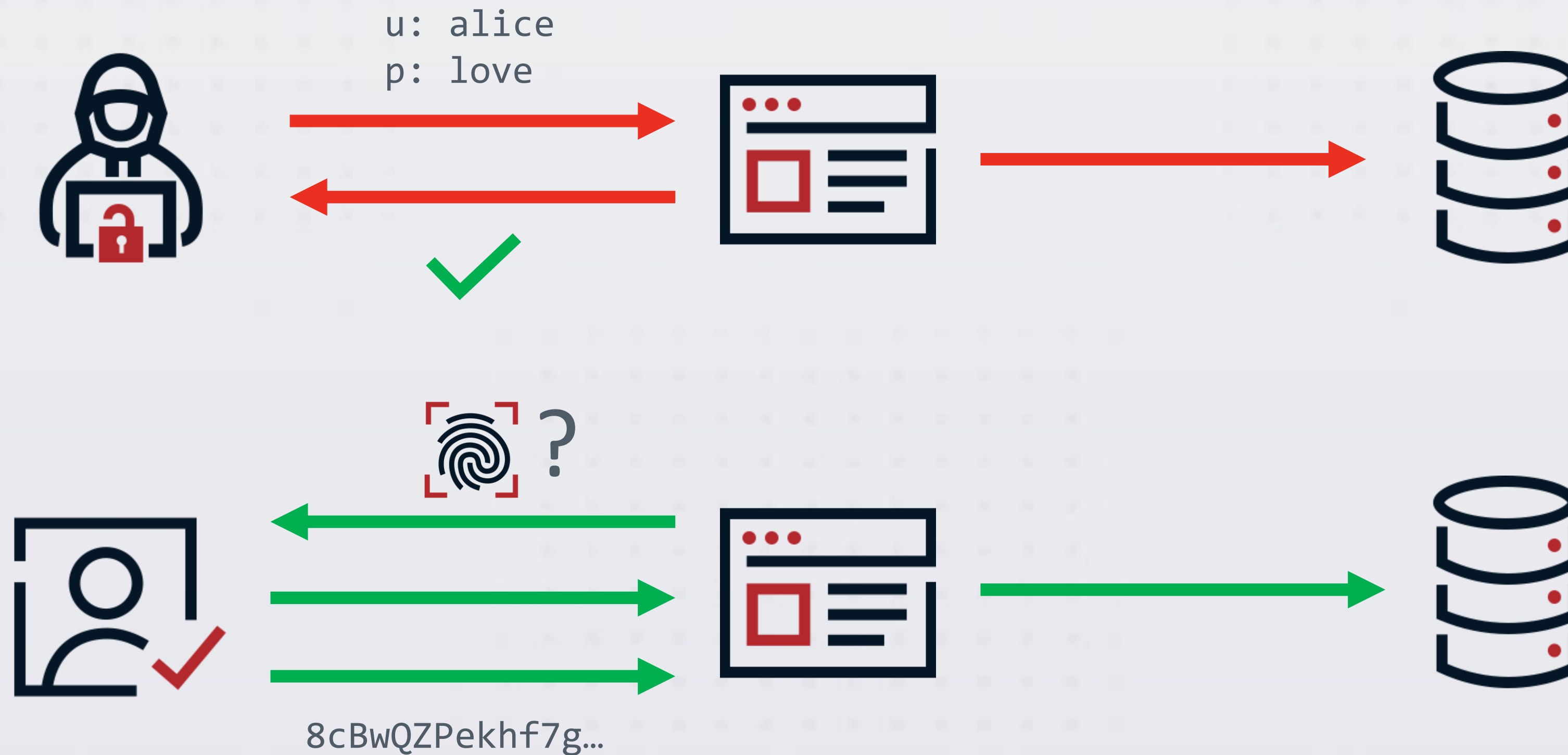
Orchestration is a Zero Trust Enabler



Zero Trust Examples

Strong Authentication

username	password
alice	love
bob	sex
carol	secret
dan	god
...	



APT29 MFA Bombing
AI Password Guessing

Verifiable Credentials



name: Alice Cooper
 dob: 04/02/1948
 address: 12 Lantern Drv, Woden ACT 2606
 dl_number: 12345678

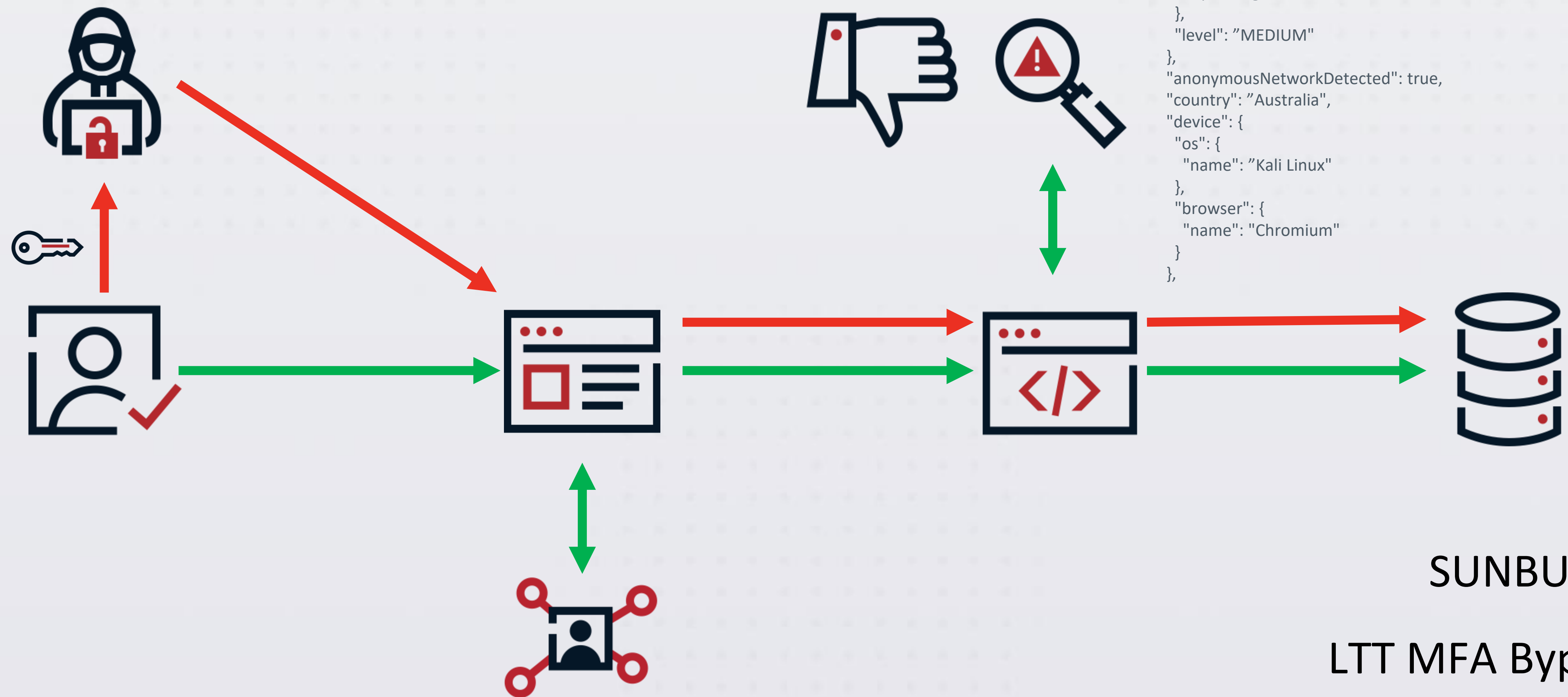
...



identity_verified: True
 australian_resident: True
 verified_by: GreenID
 verification_date: 17/09/2024

Australian Identity Breaches

Authentication Risk



```

"ipAddressReputation": {
  "score": 14,
  "domain": {
    "asn": 45780,
    "sld": "ispname",
    "tld": ".co.wtf",
    "organization": "Legitimately Registered ;)",
    "isp": "Legit Broadband"
  },
  "level": "MEDIUM"
},
"anonymousNetworkDetected": true,
"country": "Australia",
"device": {
  "os": {
    "name": "Kali Linux"
  },
  "browser": {
    "name": "Chromium"
  }
},

```

SUNBURST

LTT MFA Bypass

Storm-0558 Attacks

In Summary

The Modern Threat Landscape

Zero Trust Architecture

Zero Trust Identity Controls

Zero Trust Examples