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OKAY, WE'RE THERE — NOW WHAT?

GOING BEYOND THE CURRENT STATE OF SECURITY

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What have we always wanted to fix, but we figured it was too hard?

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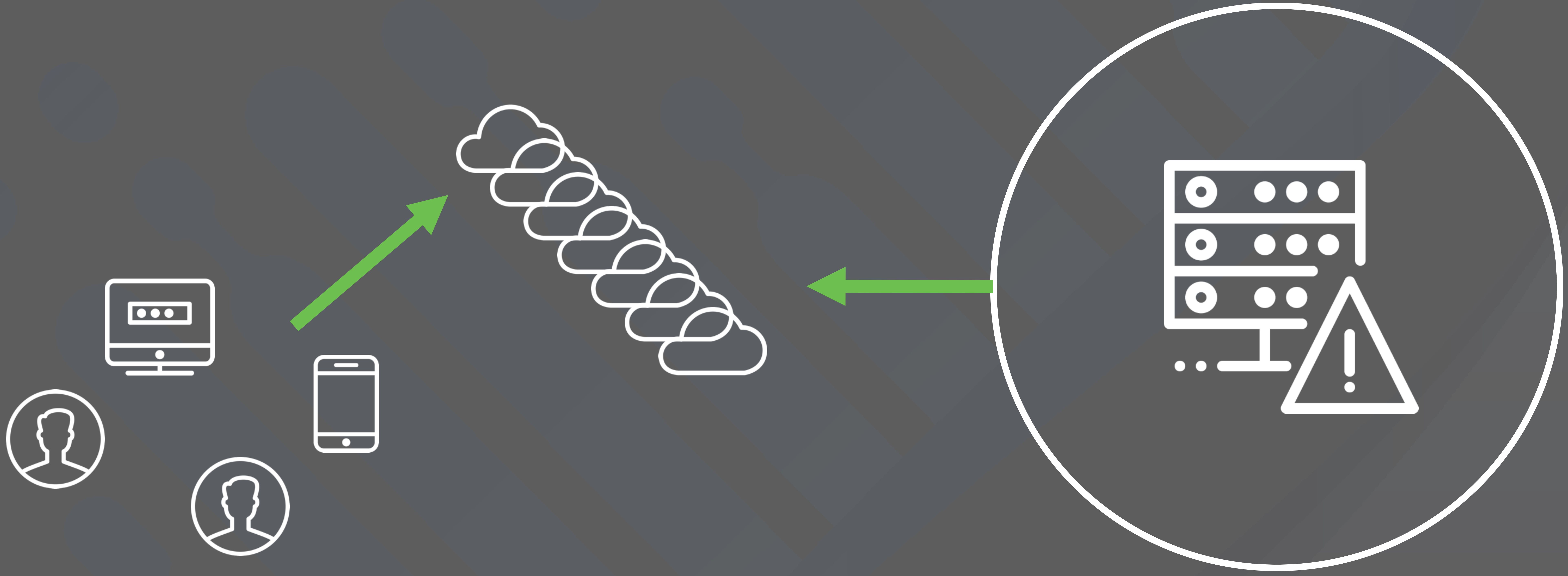
Still envisioning the enterprise as a castle ringed by a moat, with the VPN as the only way in



Plenty of enterprise assets are outside the perimeter, or moving inside and out

SaaS apps are both for personal and work use

A sufficiently successful attacker looks exactly like an insider

Remember when you only had to outrun the other hiker?

Now there's more than enough bear to go around

HOW DO YOU LEVEL UP FROM HERE?

2003-ish:

The Jericho Forum first discusses “de-perimeterization”

2009:

John Kindervag at Forrester describes a “Zero Trust model”

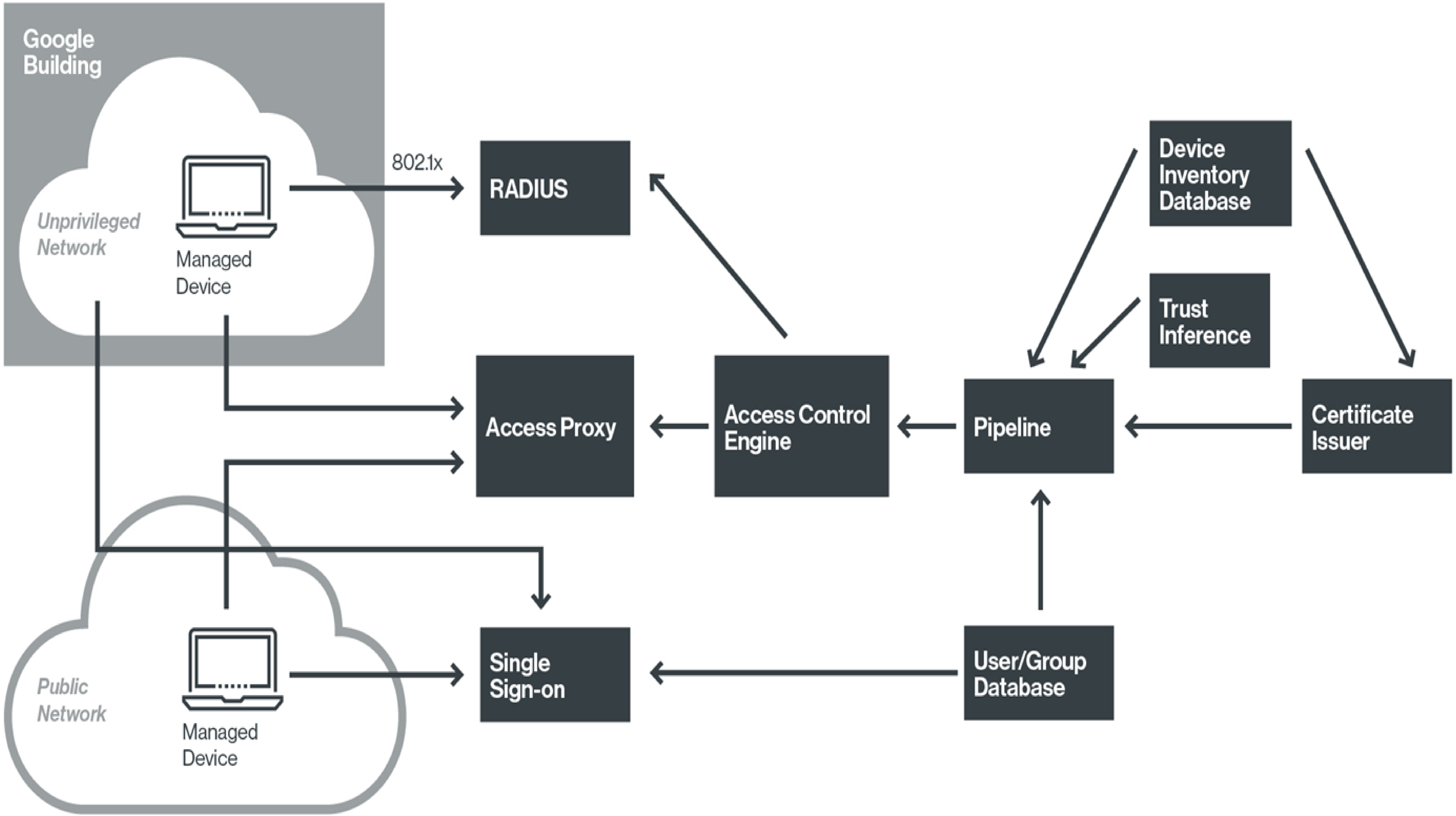
2013:

Google talks about their implementation, called “BeyondCorp”

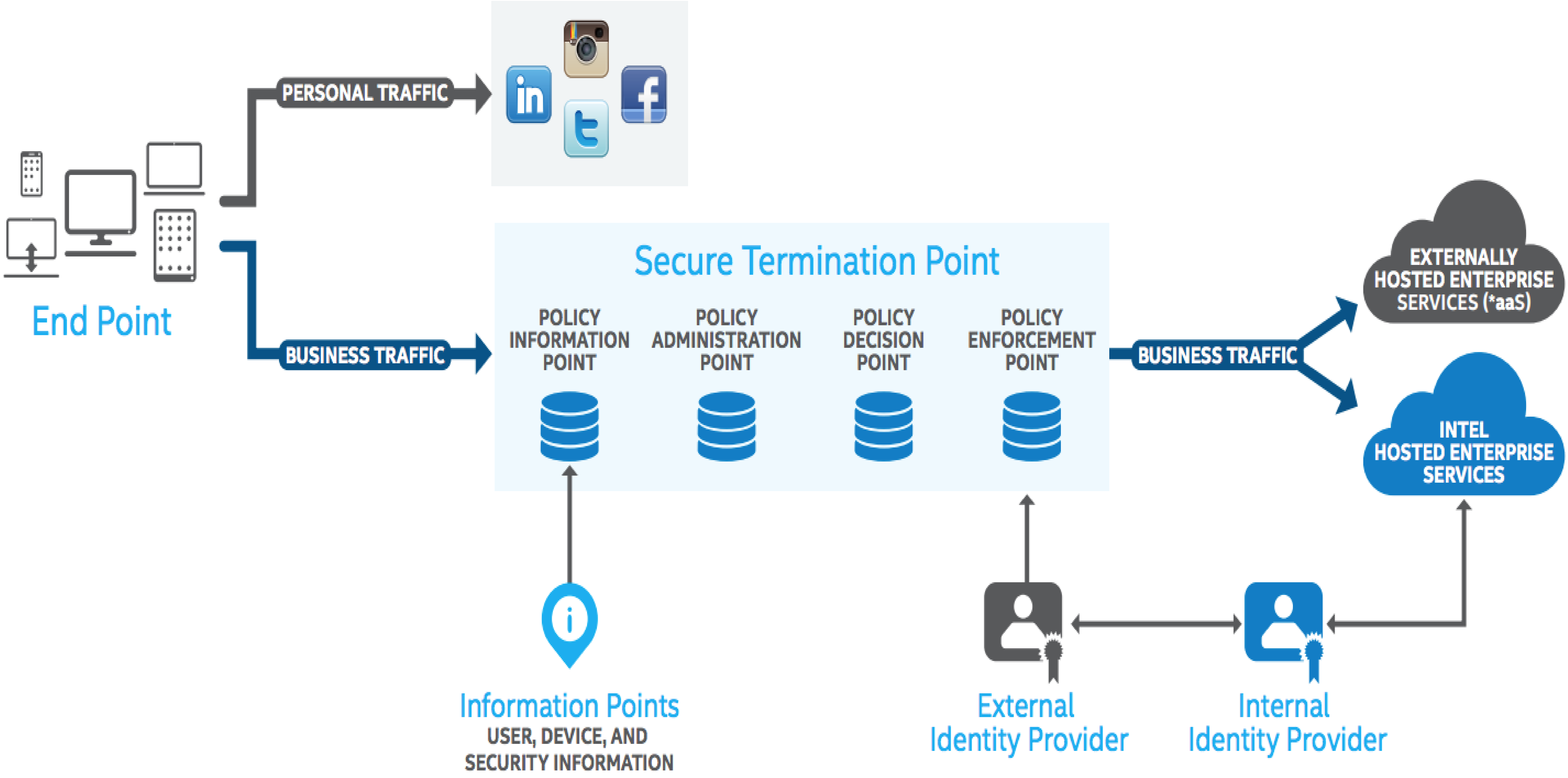
Don’t trust something just because it’s on the “inside” of your firewall

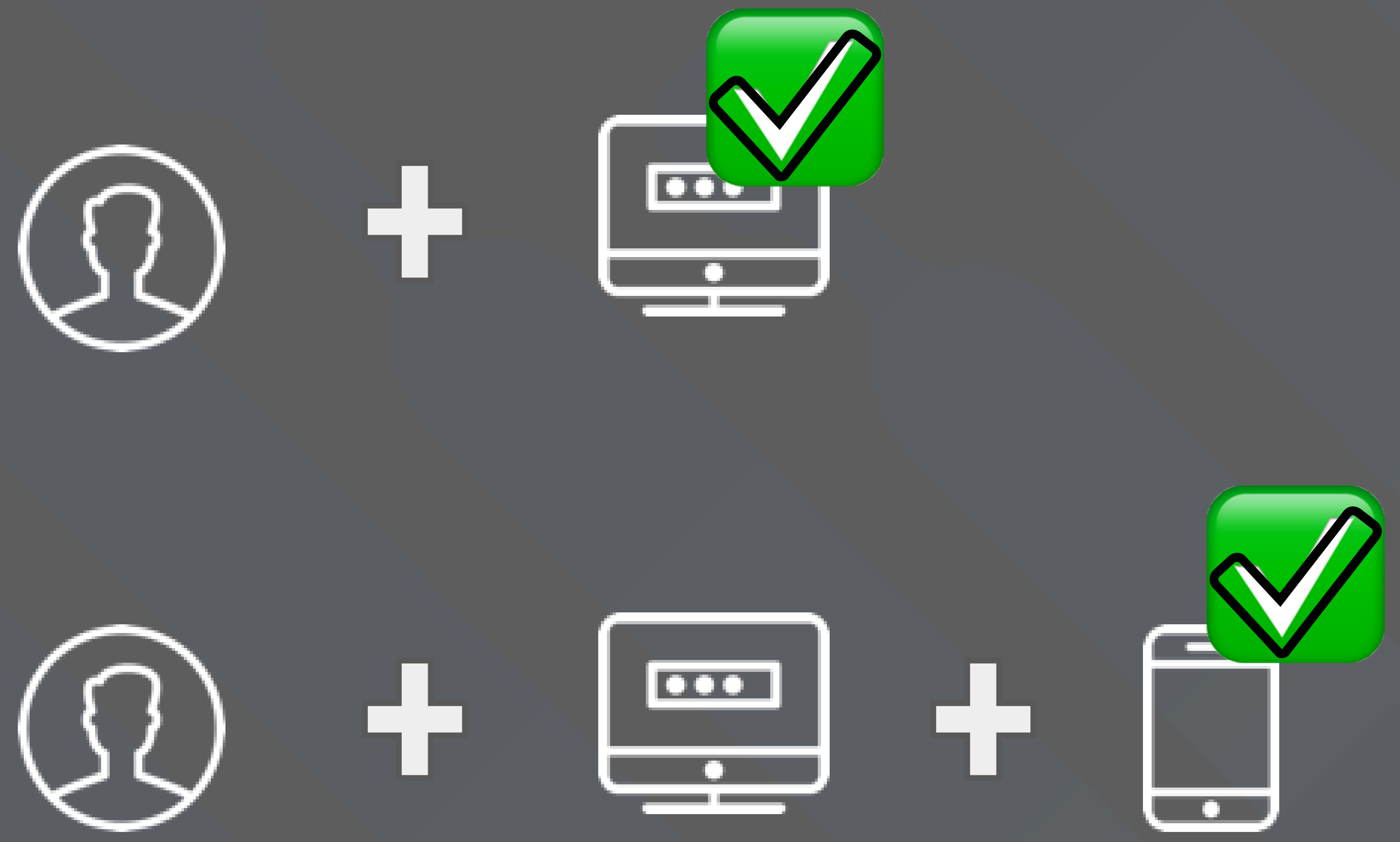
Make everything pass the same tests before you decide to trust it

GOOGLE’S “BEYONDCORP” MODEL



SEE ALSO: INTEL'S "BEYOND THE EDGE" MODEL


PERSONAL TRAFFIC
End Point
BUSINESS TRAFFIC
Secure Termination Point
POLICY INFORMATION POINT
POLICY ADMINISTRATION POINT
POLICY DECISION POINT
POLICY ENFORCEMENT POINT
BUSINESS TRAFFIC
EXTERNALLY HOSTED ENTERPRISE SERVICES (*aaS)
INTEL HOSTED ENTERPRISE SERVICES
Information Points
USER, DEVICE, AND SECURITY INFORMATION
External Identity Provider
Internal Identity Provider



- Authenticating the user with more than a password
- Checking the hygiene of the device
- Marking the devices we trust
- Making sure they’re together no matter where they are

Attackers have to compromise a username, password, 2nd factor, AND the endpoint.

This is harder to do if the devices are patched and therefore less vulnerable.

Moves the “perimeter” to the application layer and identity

Makes the network less relevant

P.S. It also improves the user experience

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THANK YOU

PLEASE FILL OUT YOUR EVALUATIONS!

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