

You've Got Cloud Security All Wrong — Why Identity and Data Security Are Paramount in a Cloud World

David Mahdi

© 2020 Gartner, Inc. and/or its affiliates. All rights reserved. Gartner is a registered trademark of Gartner, Inc. and its affiliates. This publication may not be reproduced or distributed in any form without Gartner's prior written permission. It consists of the opinions of Gartner's research organization, which should not be construed as statements of fact. While the information contained in this publication has been obtained from sources believed to be reliable, Gartner disclaims all warranties as to the accuracy, completeness or adequacy of such information. Although Gartner research may address legal and financial issues, Gartner does not provide legal or investment advice and its research should not be construed or used as such. Your access and use of this publication are governed by [Gartner's Usage Policy](#). Gartner prides itself on its reputation for independence and objectivity. Its research is produced independently by its research organization without input or influence from any third party. For further information, see "[Guiding Principles on Independence and Objectivity](#)."

Gartner®

The 90s Were Cool ... but ...



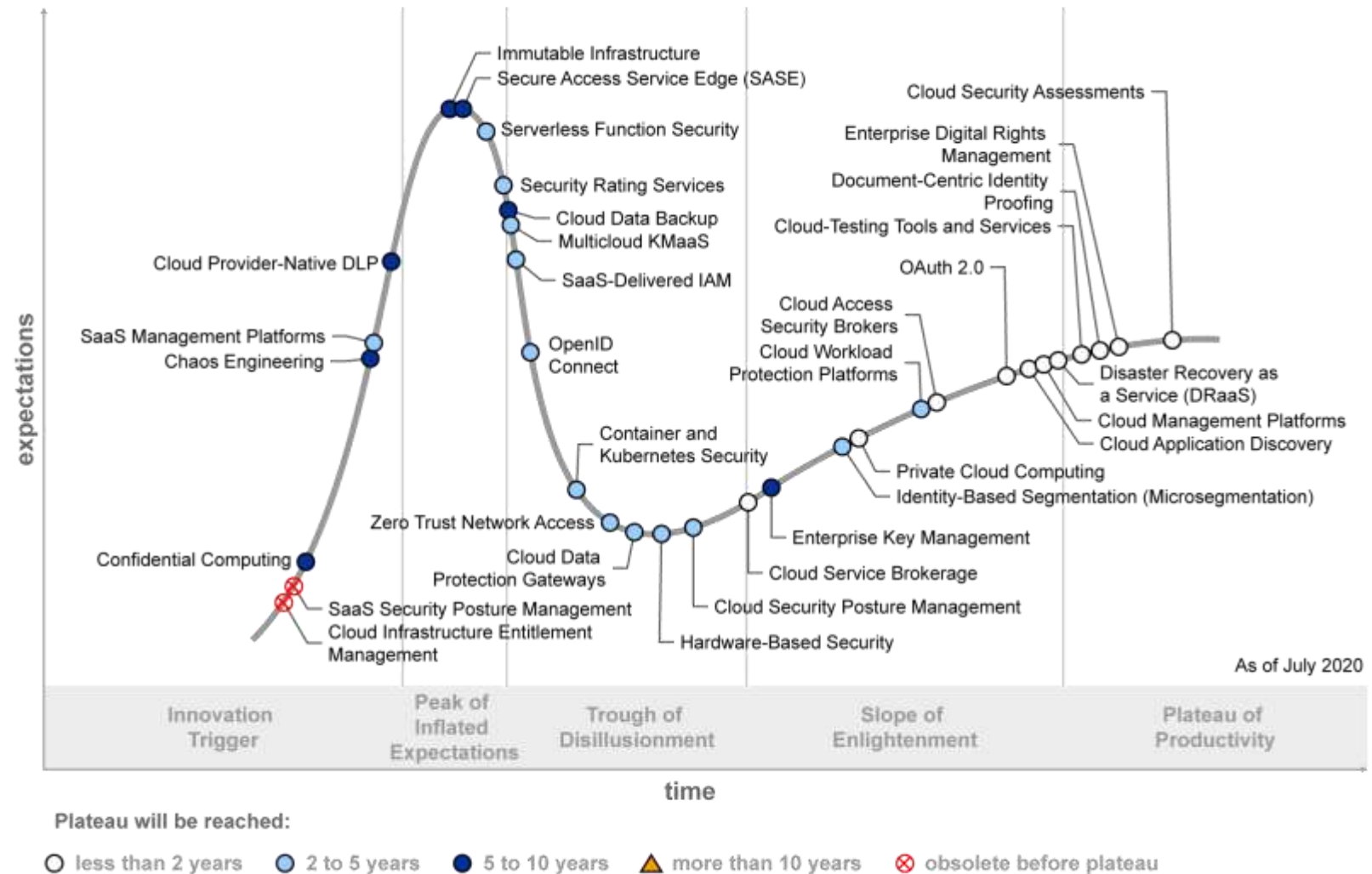
Is This Leveraging the Cloud?



Transportation: Horse and Electric Cars ...



We Tell You That This Is Cloud Security



From [“Hype Cycle for Cloud Security, 2020,”](#) 17 July 2020 (G00448013)

**Clear Skies but We Know —
The Future Is Cloudy**



Key Issues

1. Cloud is here to stay so we must move on!
2. What are the modern day approaches and recommendations?

It Was Easy to View the World as Fortresses and Moats



But That's Not the Case Anymore!

- The network is no longer a position of advantage.
- Identity is now the new perimeter.
- And your data is flowing everywhere!
- Need to embrace the future!



It's About Digital Trust!



Digital Business



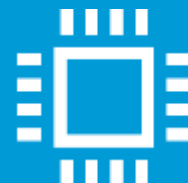
Digital Trust



People



Process



Technology

A Lot of Silos



All of these are still important —
but we're about to see a major change ...

Network Versus Identity-Based Access

VPN/Network

- Network based access
- Trust — due to being in the network



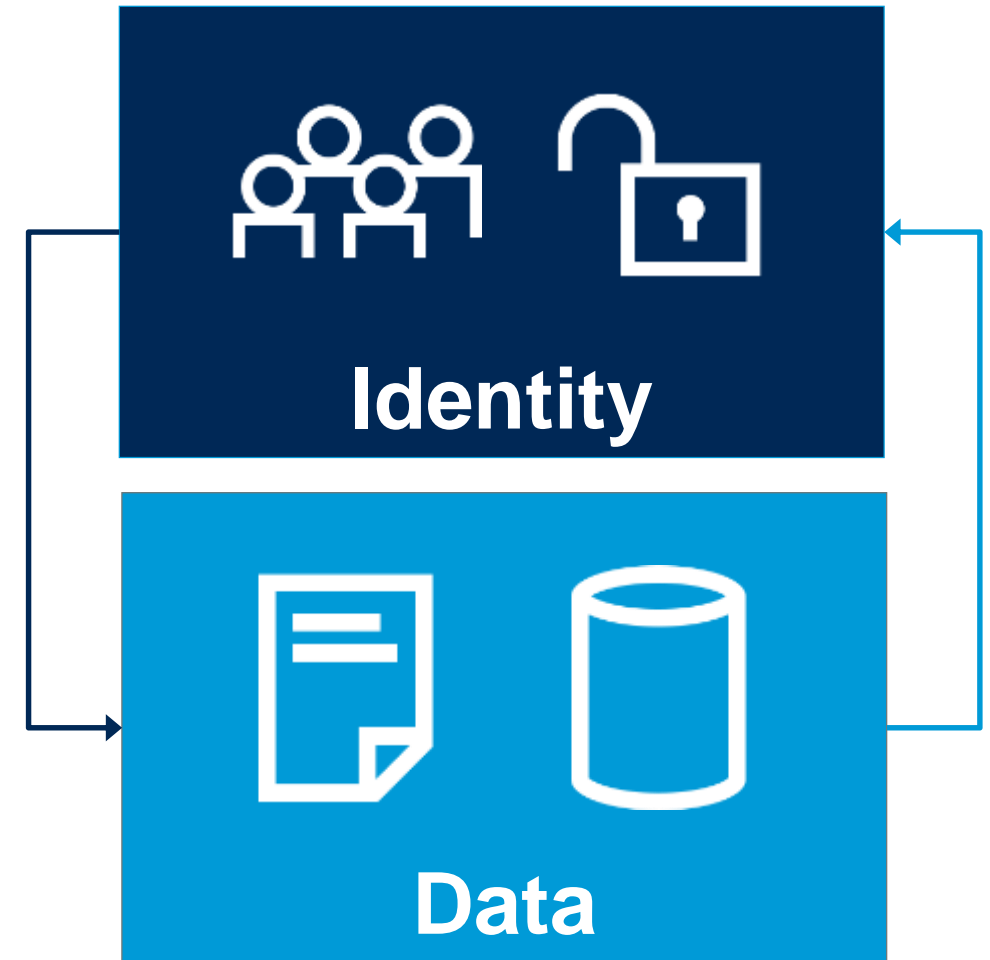
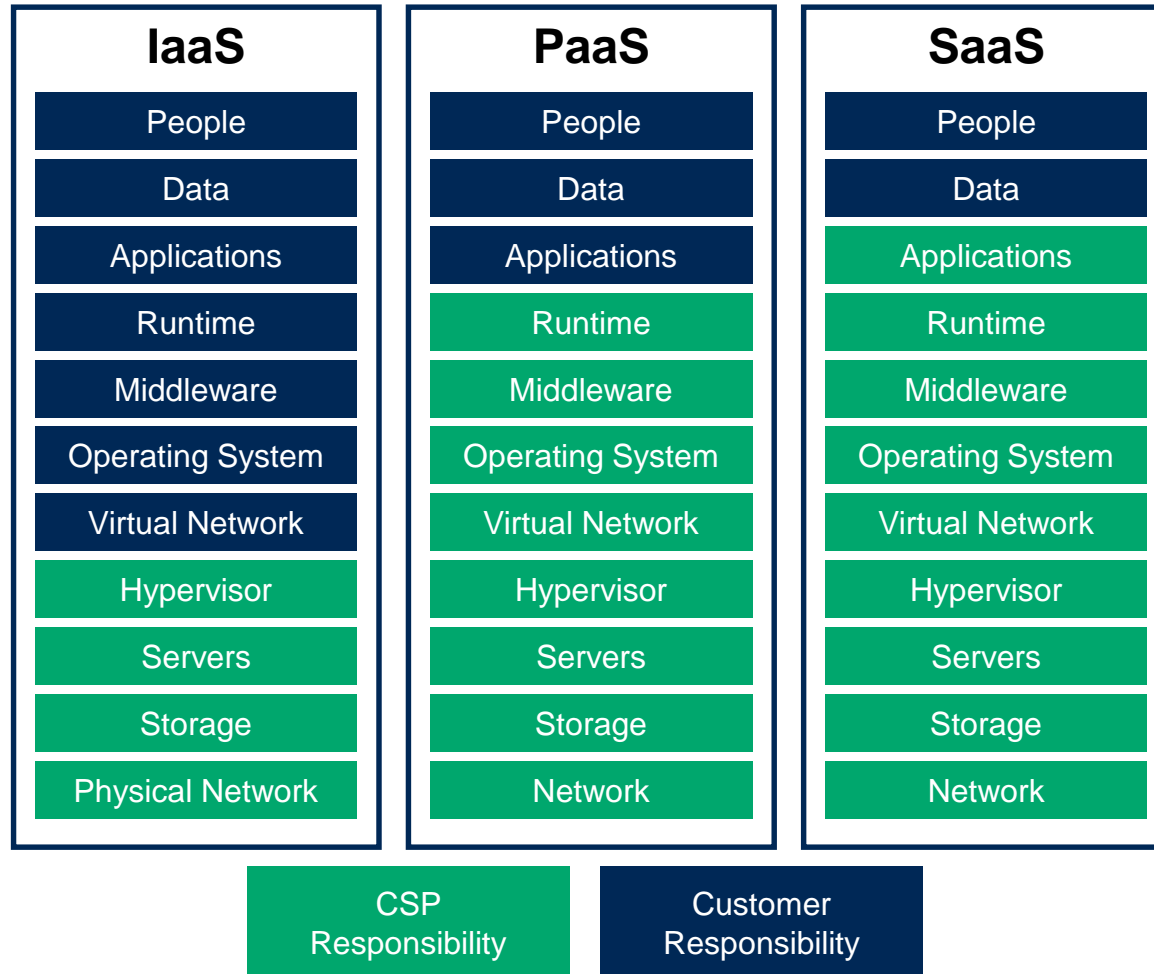
ZTNA

- Zero trust network access
- Identity-based access
- Entity and contextual trust



**Through 20____,
>99% of cloud security failures
will be the customer's fault.**

The Cloud Focuses Our Attention on What Matters: Data and Identity



So What Does This Mean for You?

- You have a responsibility to establish and maintain trust
- Emphasize now on identity and data
- Aim for zero trust with adaptive trust as the goal (CARTA!)
 - Zero trust is just the first step!



Key Issues

1. Cloud is here to stay so we must move on!
2. What are the modern day approaches and recommendations?

Remember It's About Access!



Identity and Access Management Defined



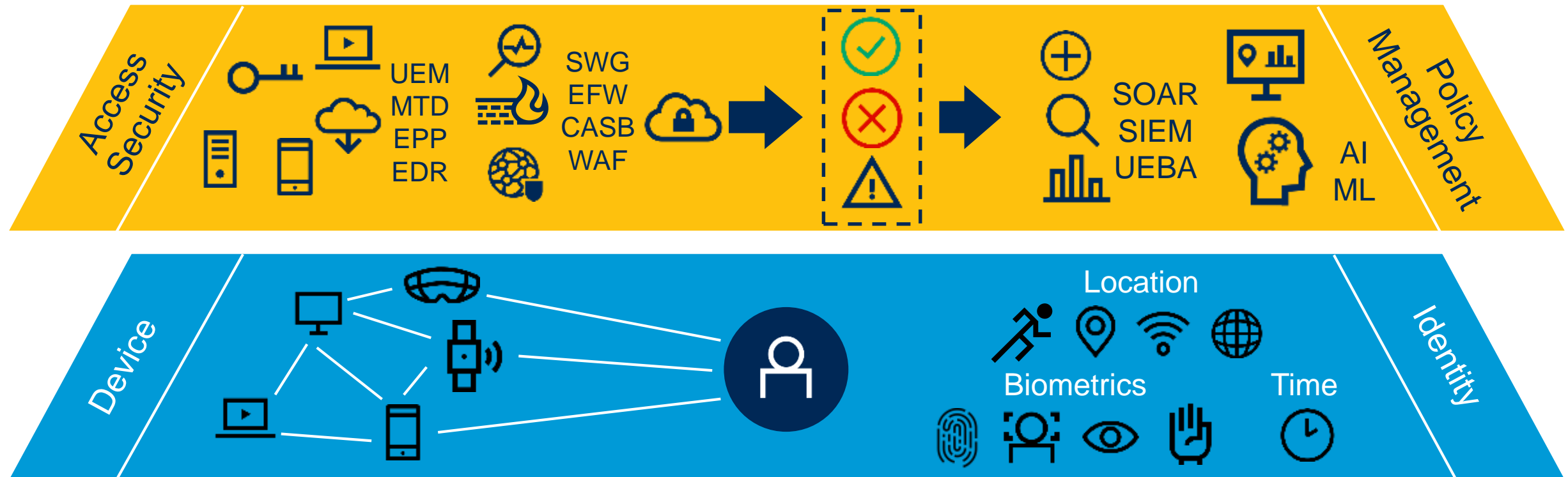
IAM ensures that the **right** people get the **right** access to the **right** resources at the **right** times for the **right** reasons, enabling the **right** business outcomes.

IAM = Identity and Access Management

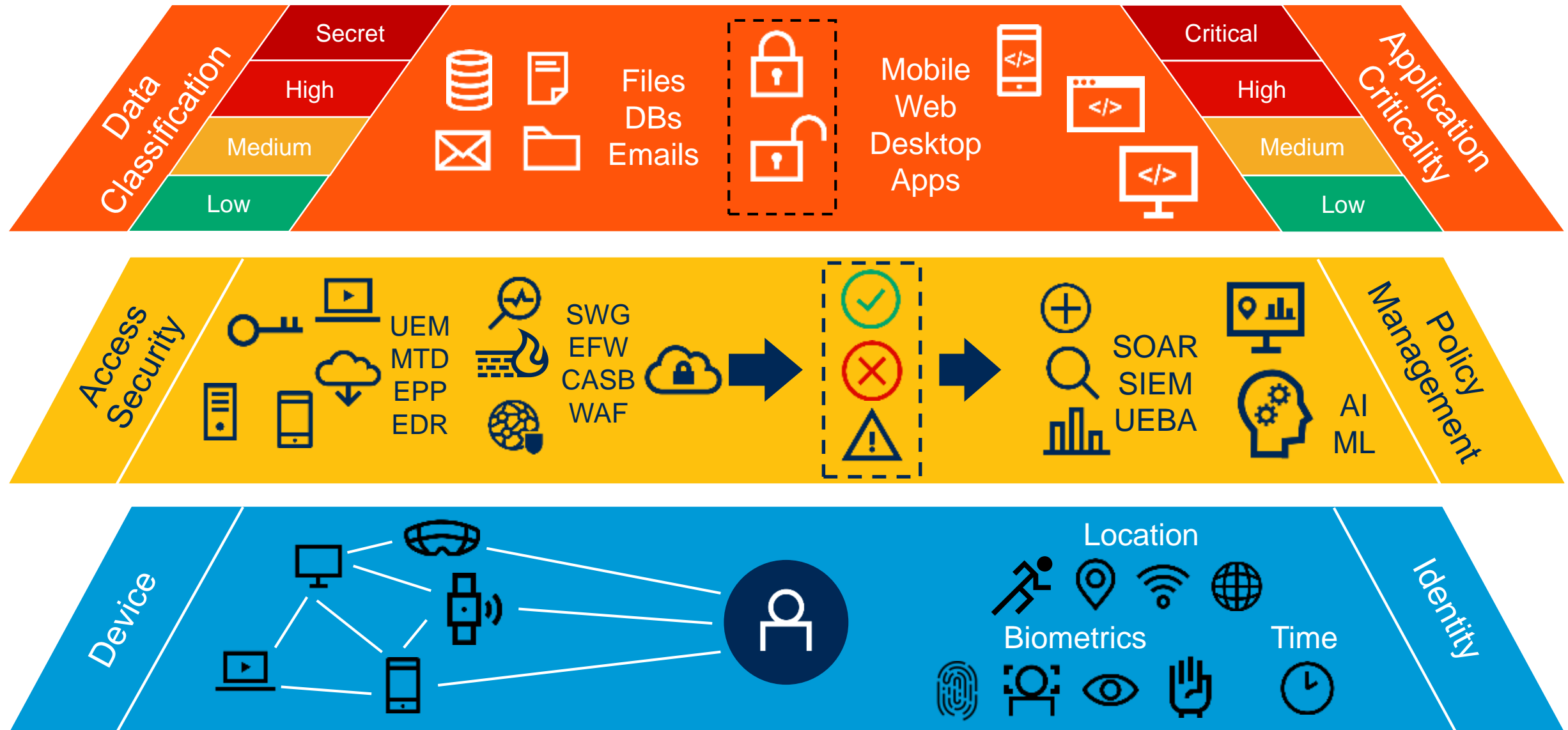
Identity Is the New Perimeter



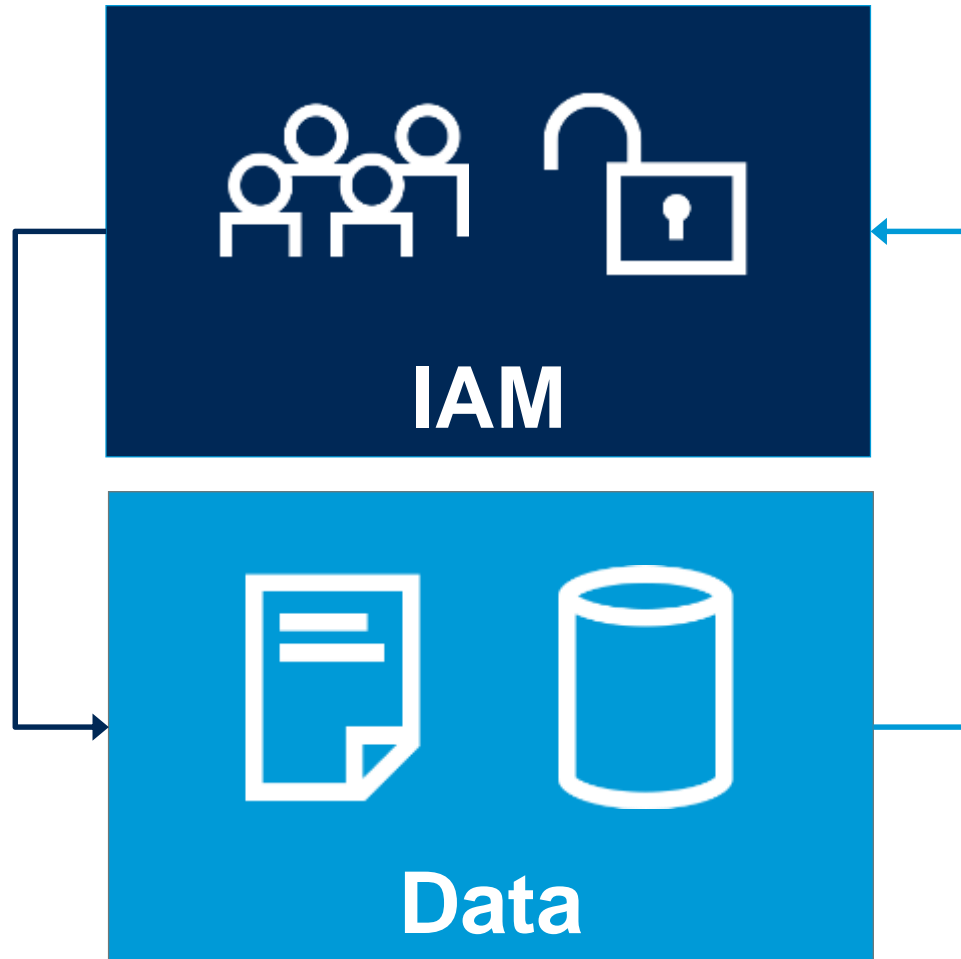
Secure Access and Automate Policy



Securing the Data and Applications



IAM and Data Security Market Movements



This is happening right in front of us!

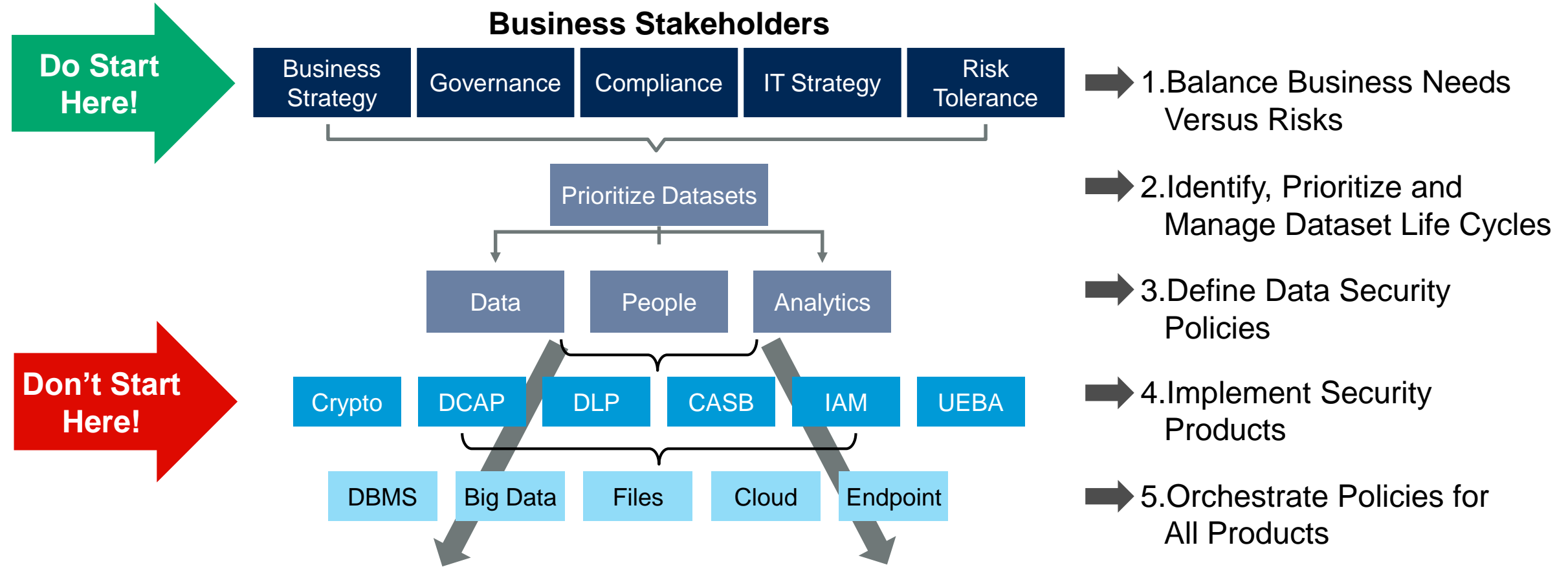




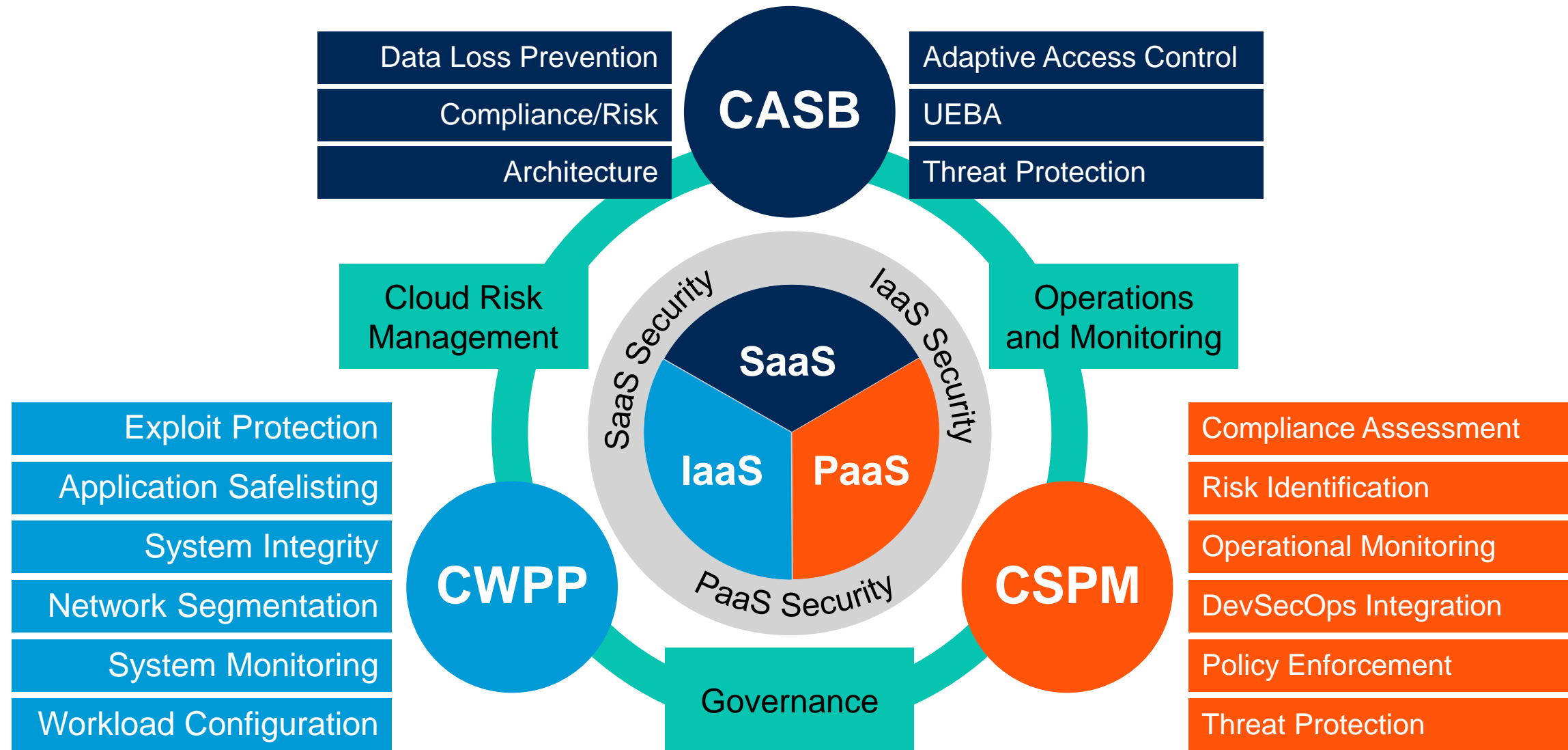
Cool — So Now What?

Then Develop a Data Security Governance Strategy

DSG Framework

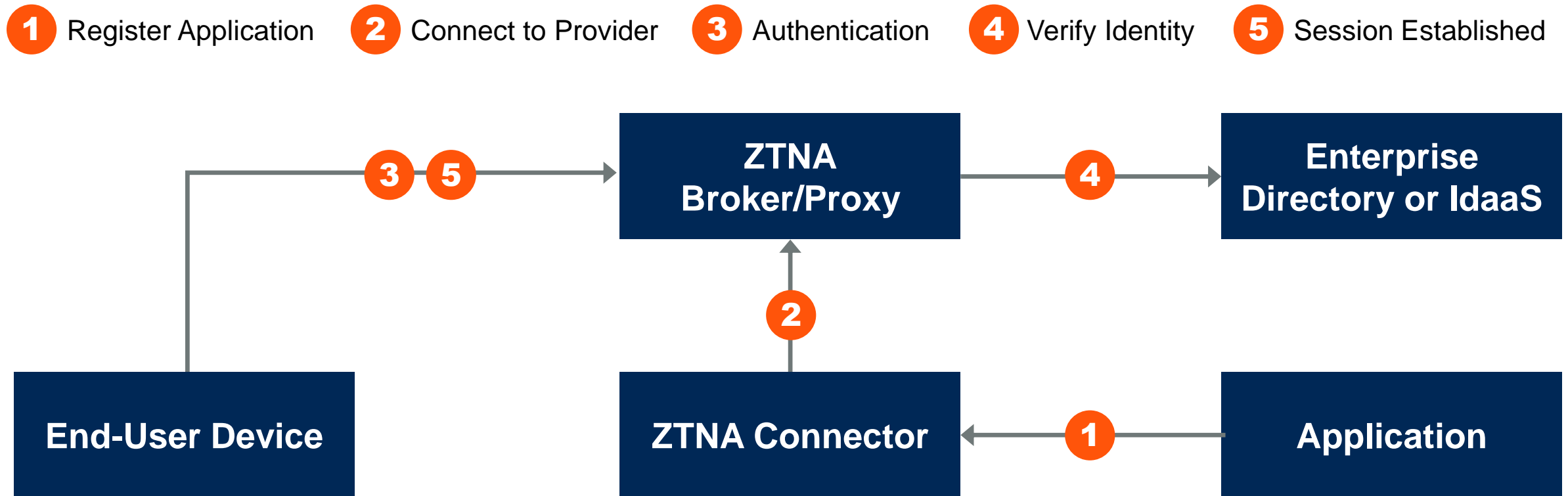


Cloud Security Strategy Complete



ZTNA: Identity-Centric and Data-Centric Protection

Conceptual Model of Service-Initiated ZTNA



Check Out These Sessions at This Virtual Summit

- Outlook for IAM
- Outlook for Data Security
- Outlook for Cloud Security
- A Pragmatic Approach to Implementing a ZT Security Architecture
- Applying CARTA to Access Management

Recommendations

- ④ Orient strategies around identity and data security.
 - Humans and !Humans (Machines!)
- ④ Review and revise existing IAM and data security tools.
- ④ Evaluate and deploy CASB for SaaS governance.
- ④ Evaluate and implement ZTNA for employee-facing and partner-facing applications (at least one this year).

Recommended Gartner Research

- 🔍 [Mitigate Common IaaS Security Risks With Identity and Access Management](#)
Felix Gaehtgens and Steve Riley (G00311111)
- 🔍 [Hype Cycle for Cloud Security, 2020](#)
Steve Riley, Jay Heiser and Tom Croll (G00448013)
- 🔍 [Hype Cycle for Identity and Access Management Technologies, 2020](#)
Ant Allan (G00450324)
- 🔍 [Hype Cycle for Data Security, 2020](#)
Brian Lowans (G00448204)
- 🔍 [10 Best Practices for Successful CASB Projects](#)
Neil MacDonald (G00336456)
- 🔍 [Market Guide for Zero Trust Network Access](#)
Steve Riley, Lawrence Orans and Neil MacDonald (G00726817)
- 🔍 [Use the Data Security Governance Framework to Balance Business Needs and Risks](#)
Brian Lowans, Bart Willemsen and Marc-Antoine Meunier (G00465140)

For information, please contact your Gartner representative.