

Zero Trust Network Access (ZTNA) Securely Connecting Users to Applications

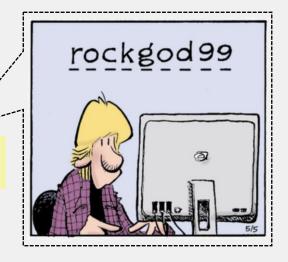
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It seems a little harder to get around in cyberspace



More six-digit authorization codes texted to your phone.

More requests to confirm the name of your first pet.







Overall, having to prove more often that you are you.



It's "ZERO TRUST" and it's transforming networks globally

It's a set of design principles and a cybersecurity strategy.

01

Never trust, always verify

Treat every user, device, application/workload, and data flow as untrusted. Authenticate and explicitly authorize each to the least privilege required using dynamic security policies.

02

03



"TRUST but VERIFY"

tion

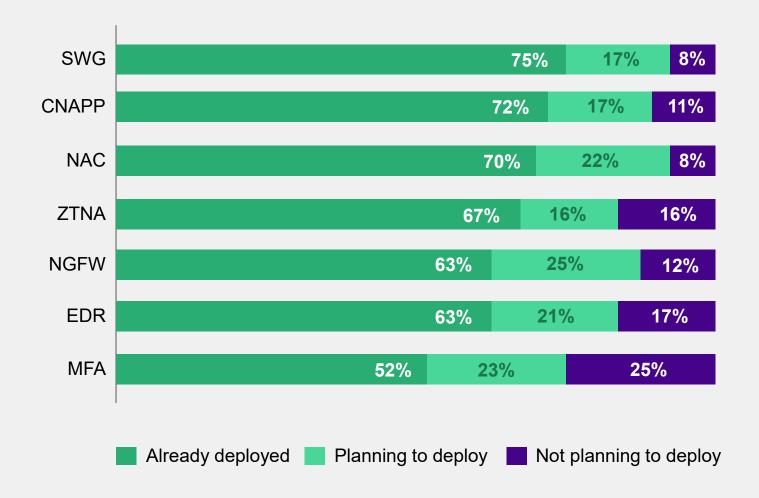
It was first used in the text of nuclear disarmament during the Cold War era by

Ronald Reagan when talking ould in pan ନାଣିକ ଓଡ଼ିନ ଲେଖିଲି access ons of ଅଧିକ୍ର, what, when, where, and or denying access to resources.



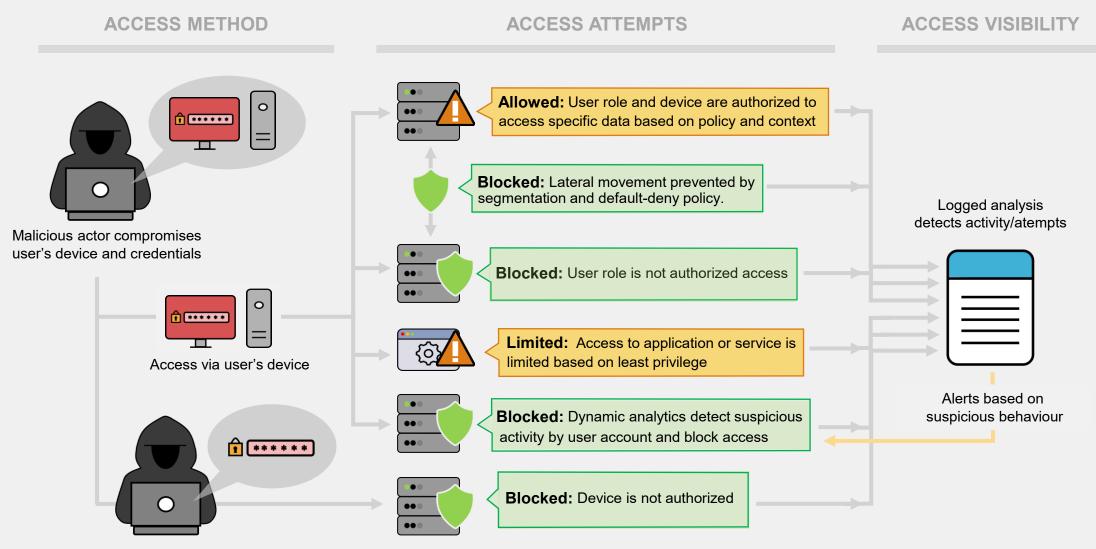
Technologies as part of zero-trust strategy

2023, "Report: The State of Zero Trust", Fortinet



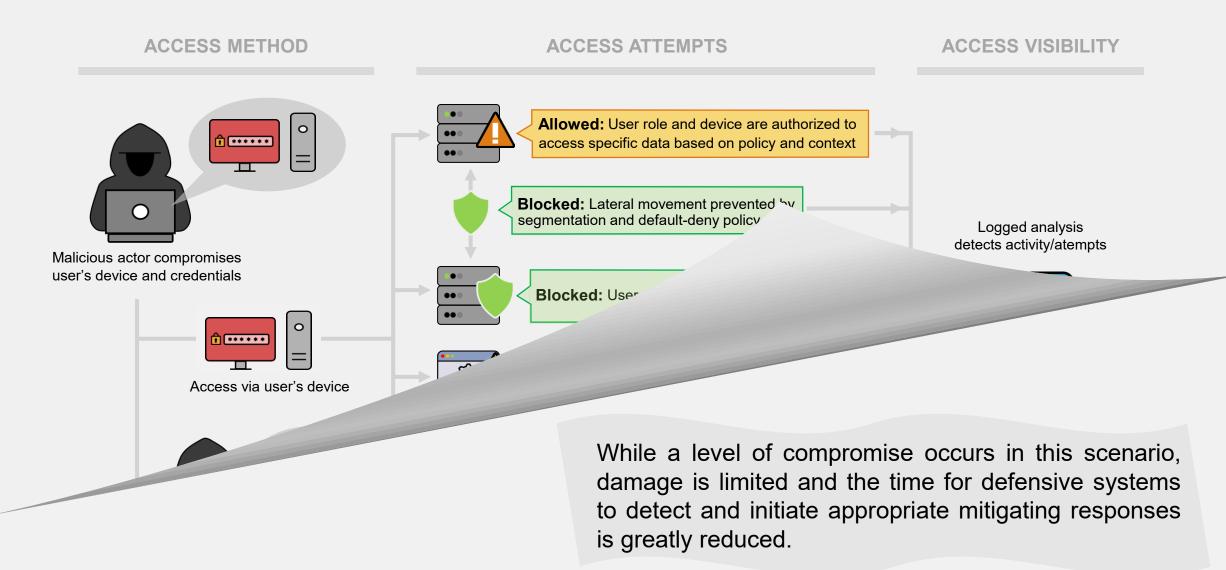


How far can a malicious actor go?





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How to implement a zero-trust strategy

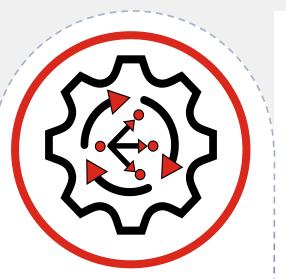


Define the Attack Surface

Defining your attack surface should be the first item on your zero trust checklist. [application access?; remote access?] This involves asking who, what, when, where, why, and how for every user, device, and network that wants to gain access.

Create a
Zero-Trust
Policy





Architect a Zero-Trust Network

A zero trust network is designed around your specific protect surface—there is never a one-size-fits-all solution. Decide which network controls to implement and where to position them.

Monitoring activity on your network can alert you to potential issues sooner and provide valuable insights for respond and optimizing security.

Monitor your Network





Key takeaways



The shift to cloud computing and decentralized work immediately led to an uptick in cybercrime. Security methods have had to move quickly to modernize.



The zero-trust cybersecurity strategy is transforming global networks. These networks, sites, or applications won't allow you in (or let you stay) without proof you belong there, and they monitor for unexpected behavior. Your organization shall do it also.



More than three-quarters of global organizations are now taking a more aggressive approach to cybersecurity. About 40% have adopted a zero-trust model, moving security focus to the internet access.



