

Identity & Access Governance:  
Key to Security or  
Completely Useless?

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Product Manager  
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**85%** of businesses said their organizations will use cloud tools moderately to extensively in the next 3 years.

**68%** of spend in private cloud solutions.

- Bain and Dell

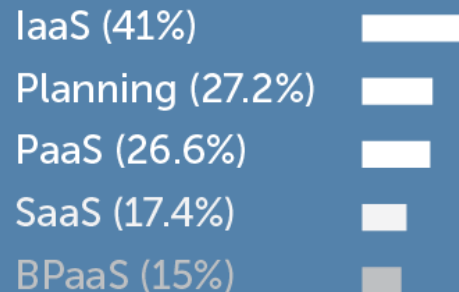


Consumers will store **36 %** of their digital content in the cloud by 2016.

-Gartner

## Cloud implementation growth

-Gartner

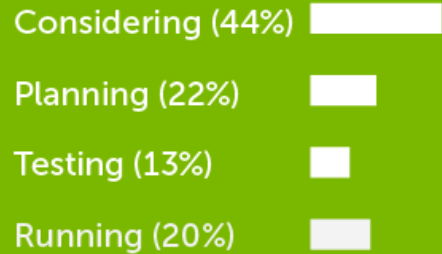


# Big data



## Enterprises and big data projects

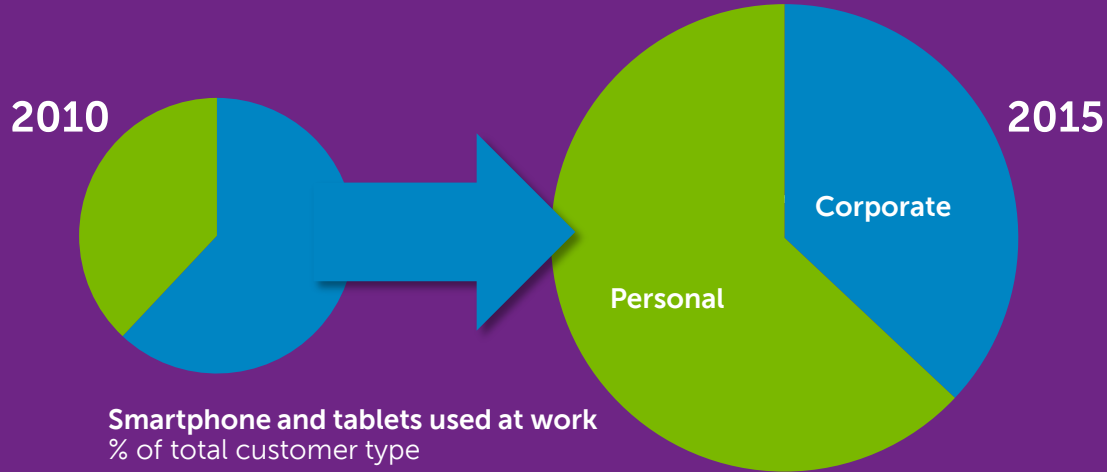
—Informatica, May 2012



# Mobility



**5X** growth in smartphones and tablets used at work...



...and source shifts from 62% / 38% corporate / personal owned to 37% corporate owned and 63% personal owned

- IDC, Dell internal analysis



# Security and risk mitigation



**57%** of companies have made policy adjustments to mitigate mobile computing risks.

—Ernst & Young



**1/2** of sensitive information is actually protected.

—IDC

**79%**

of the surveyed companies experienced some type of significant security incident within the past year that resulted in financial and/or reputational impact

**\$1.1M**

average data loss impact for reactive organizations

— McAfee



## Adaptive Security is Required for the New Normal

*"Most of today's security infrastructure is static – enforcing policies defined in advance in environments where IT infrastructure and business relationships are relative static. This is no longer sufficient in an environment that is highly dynamic, multisourced and virtualized, and where consumer-oriented IT is increasingly used in lieu of enterprise-owned and provisioned systems."*

*- Neil MacDonald, Gartner*

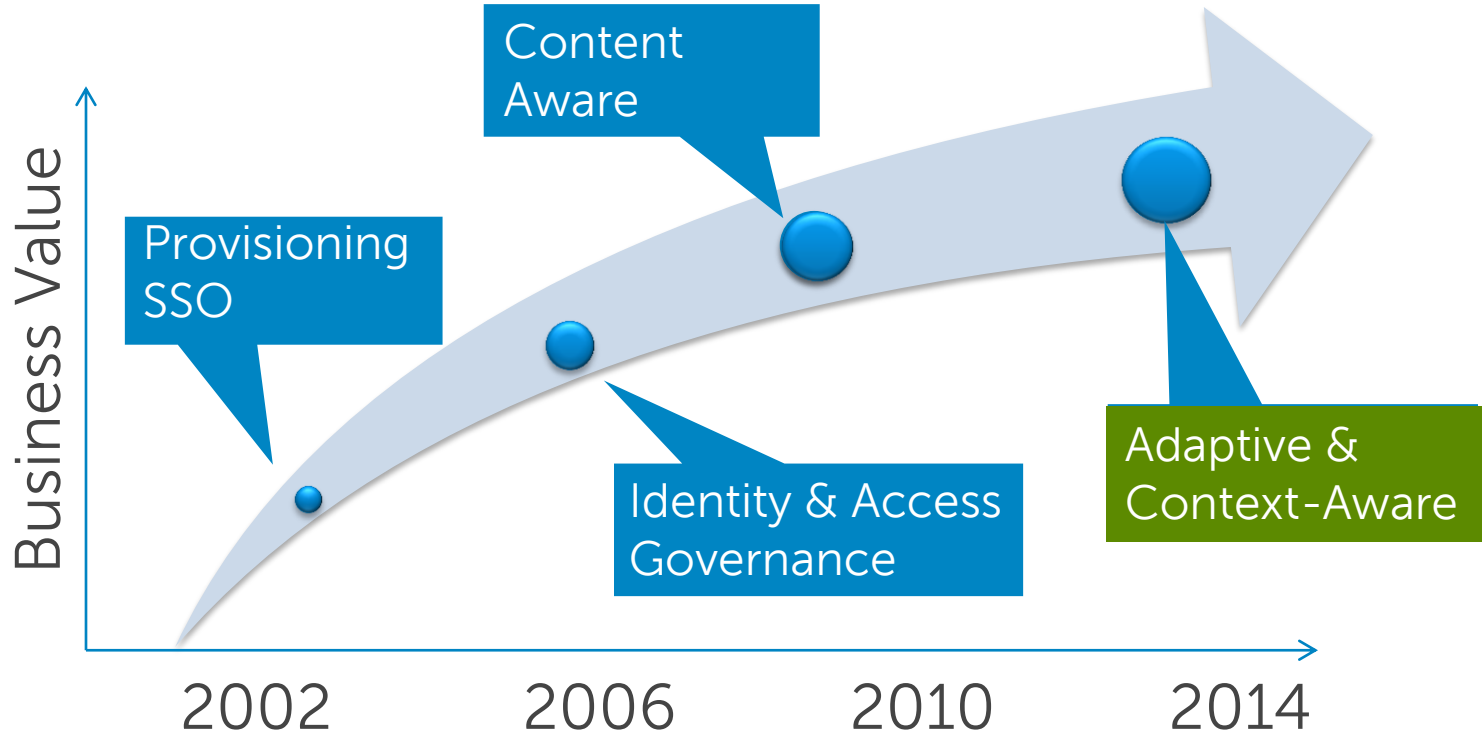


Prevent  
Unwanted  
Access

Enable  
Wanted  
Access

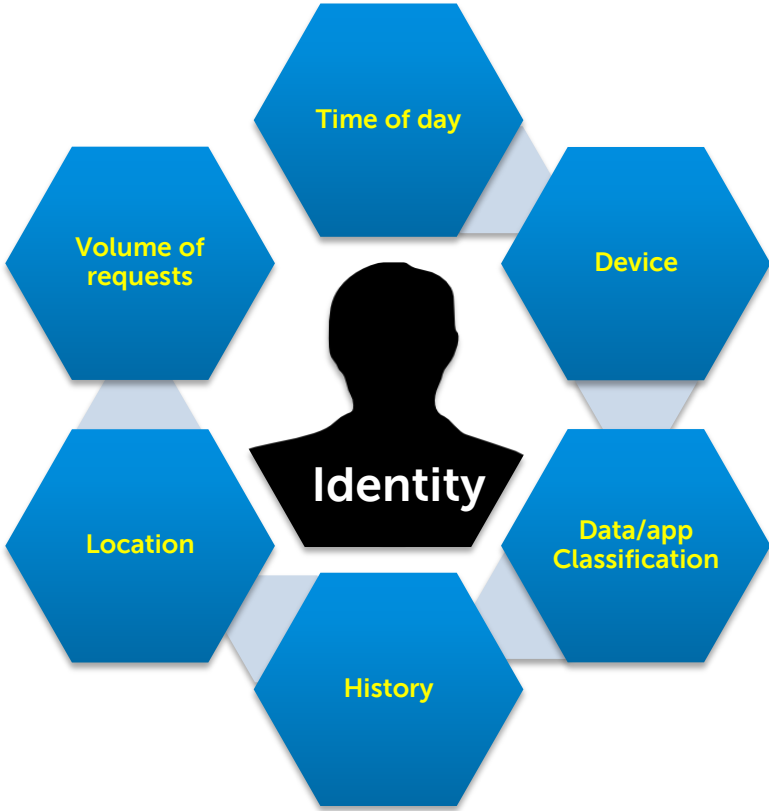


# Identity & Access Management Market Shift

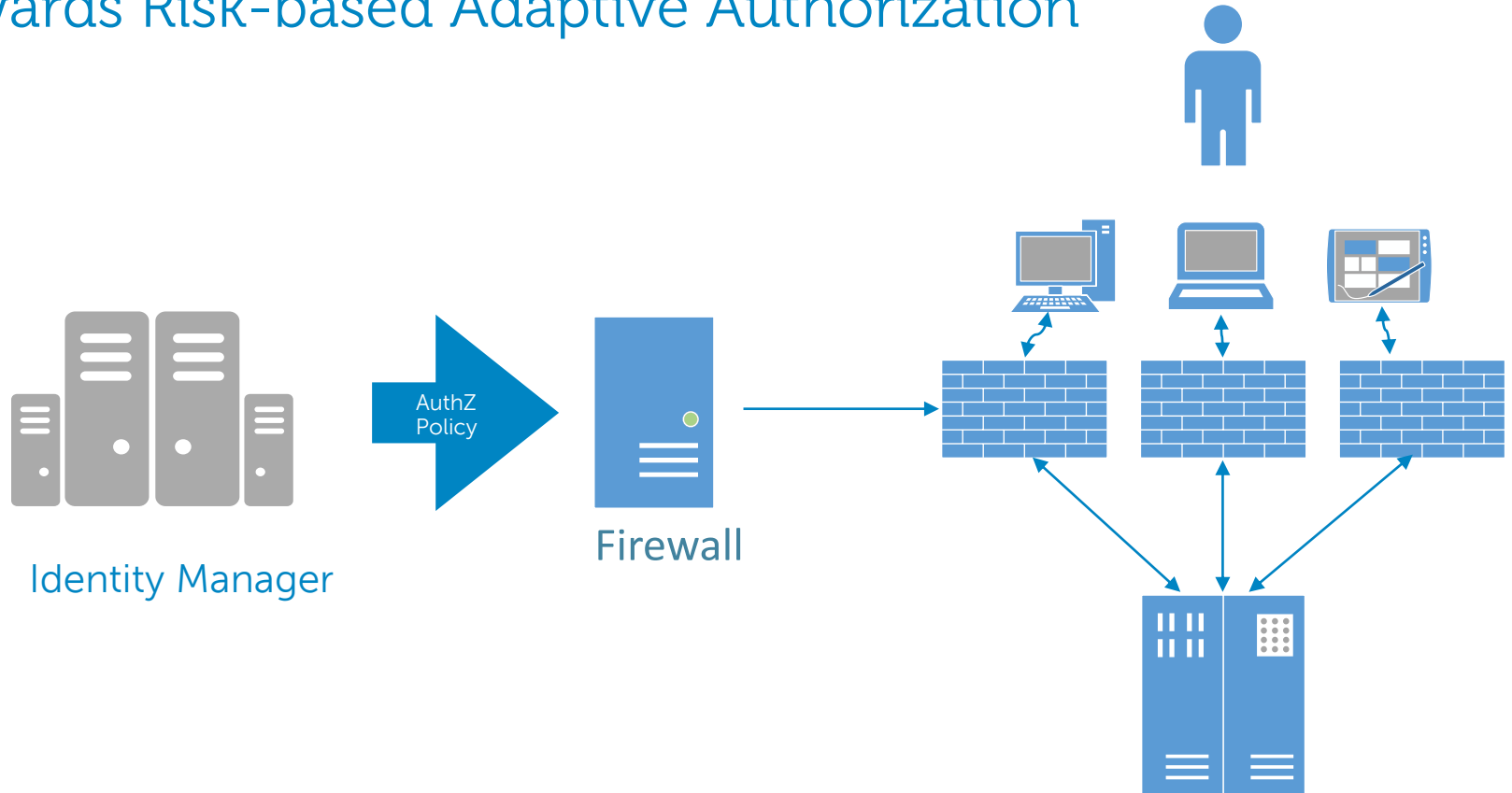




# Adaptive and context-aware authorization



# Towards Risk-based Adaptive Authorization



# IAM

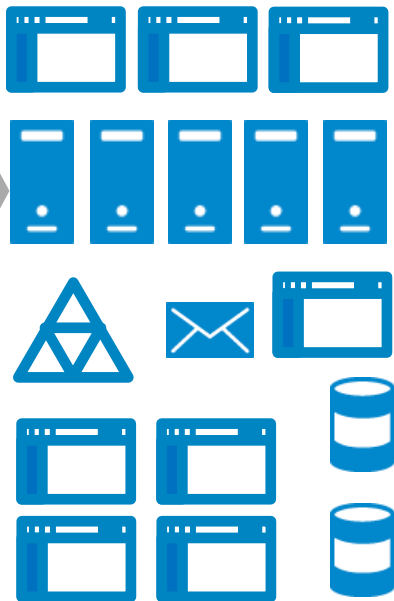
## Access based on:

- Identity
- Role
- Permissions
- Attributes

## Authentication

## Administration

## Governance



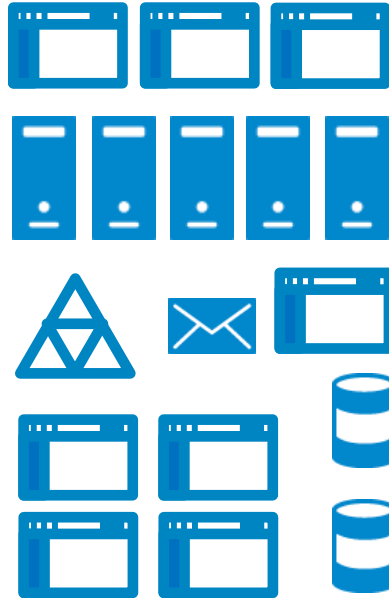
## Does not consider:

- Location
- Time
- Device
- History
- Target system
- Volume
- Situational risk

# NGFW

## Does not consider:

- Identity
- Role
- Attributes
- Permissions
- Approvals/exceptions
- Granular policy



### Access based on:

- Route
- Request
- Location
- Threat level

Application Awareness

Intrusion Protection

Allow/Deny

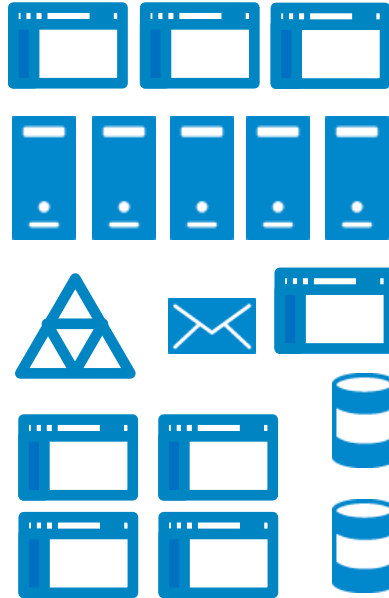




## Context-Aware Authorization

### Access based on:

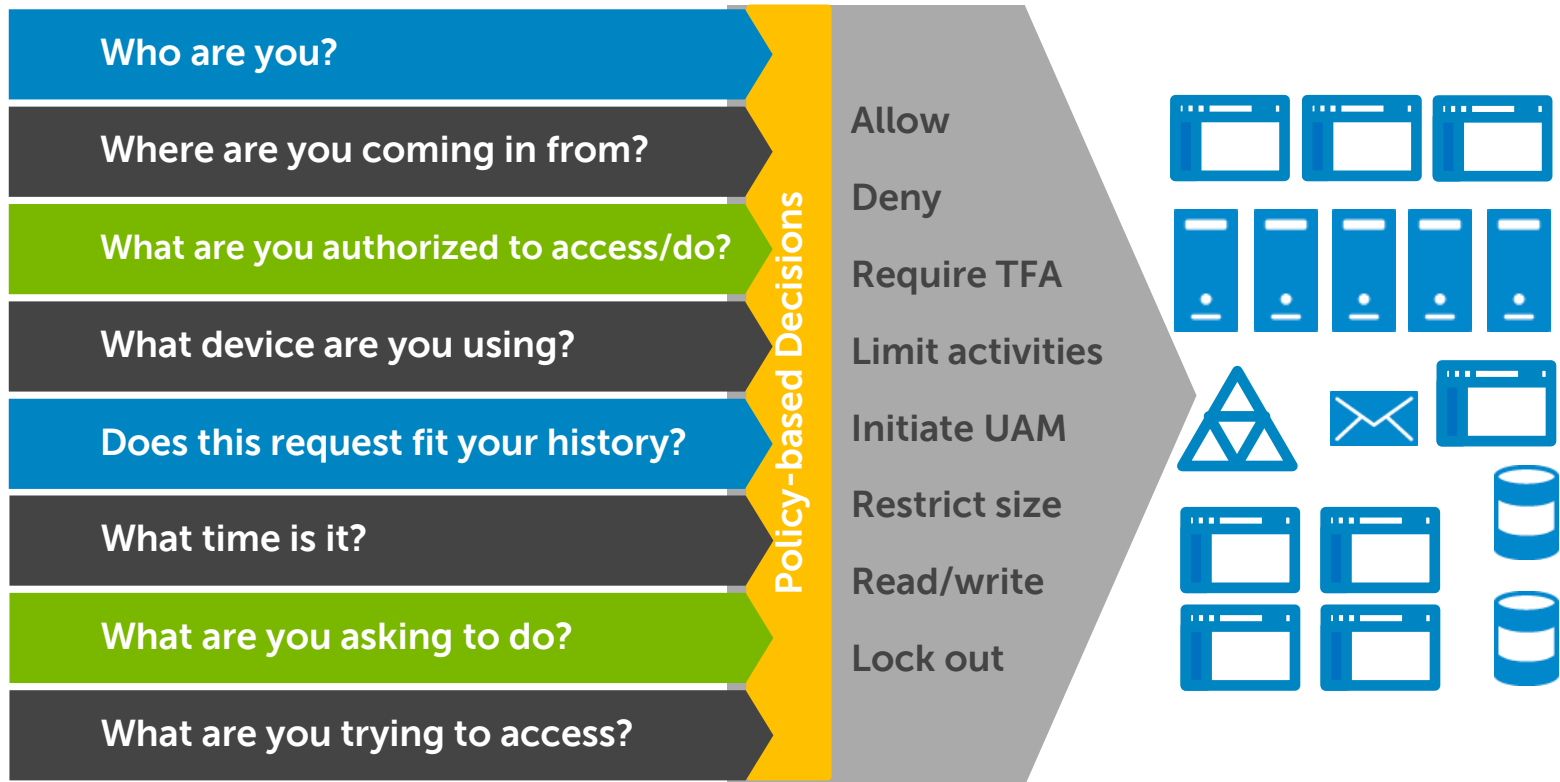
- Identity
- Role
- Attributes
- Permissions
- Approvals/exceptions
- Granular policy



### Access based on:

- Location
- Time
- Device
- History
- Target system
- Volume
- Situational risk





# Authorization Policy Attributes

## Static Data from IAM Defines Risk Values

Resource identity and risk tolerance

Application Role risk tolerance

Role membership

User/Account identity

Device risk and ownership

Business hours and risk

Location Risk

Device Health

Authentication Methods risk

## Dynamic Data from Firewall Determines Transaction Risks

Specific device in use

Device location

Account in use

Authentication strength

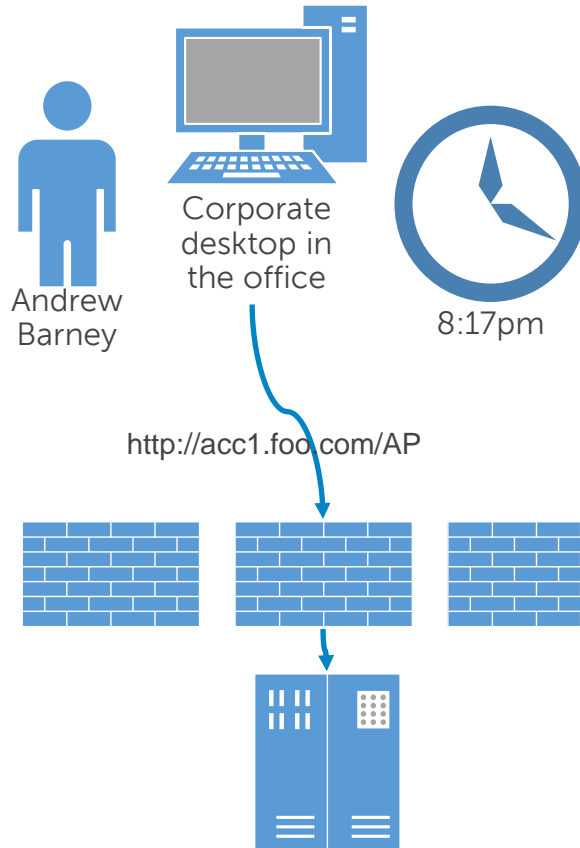
Time of day

Recent device activity



# Risk Evaluation and Access Allowed

Risk policy	Value
During work hours	0
Outside work hours	10
On-premises	0
Remote	10
Corporate device	0
BYOD managed device	5
Unmanaged device	10
"Sales Manager" role membership	abarney dsmith
"Sales Manager" risk tolerance	25



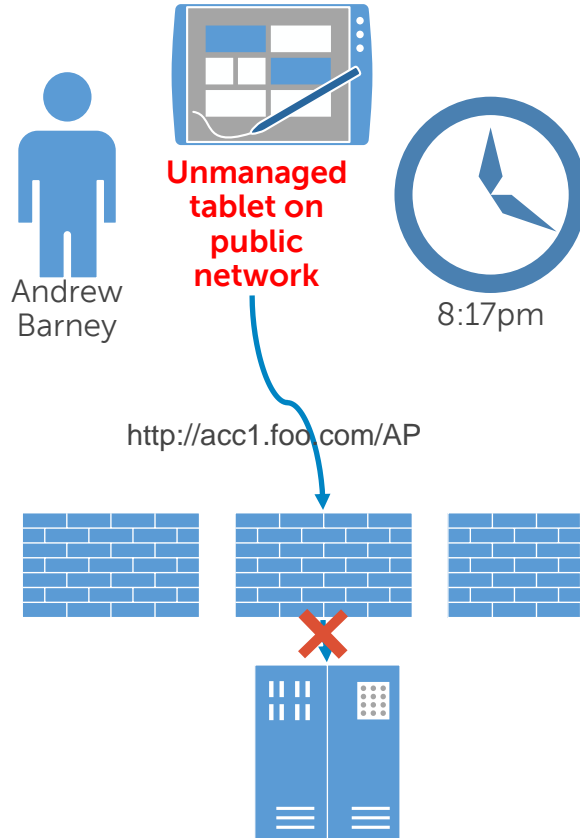
Context item	Risk value
Current time	10
Location	0
Device status	0
Account name	abarney

<b>Account risk threshold</b>	<b>25</b>
<b>Total risk</b>	<b>10</b>
<b>ACCESS</b>	<b>ALLOWED</b>



# Risk Evaluation and Access Denied

Risk policy	Value
During work hours	0
Outside work hours	10
On-premises	0
Remote	10
Corporate device	0
BYOD managed device	5
Unmanaged device	10
"Sales Manager" role membership	abarney dsmith
"Sales Manager" risk tolerance	25



Context item	Risk value
Current time	10
<b>Location</b>	<b>10</b>
<b>Device status</b>	<b>10</b>
Account name	abarney

<b>Account risk threshold</b>	<b>25</b>
<b>Total risk</b>	<b>30</b>
<b>ACCESS</b>	<b>DENIED</b>

# Privileged accounts. . New Requirements



# What's in it for you?

## (Privileged) Account Governance

### The Administrator

- Quicker and easier access
- Insulation from the dangers of uncontrolled, unlimited rights
- Increased efficiency in administration
- Audit trail of processes and activity (CYA)
- Moves the compliance burden to the business
- Accelerates time-to-productivity

### The Business

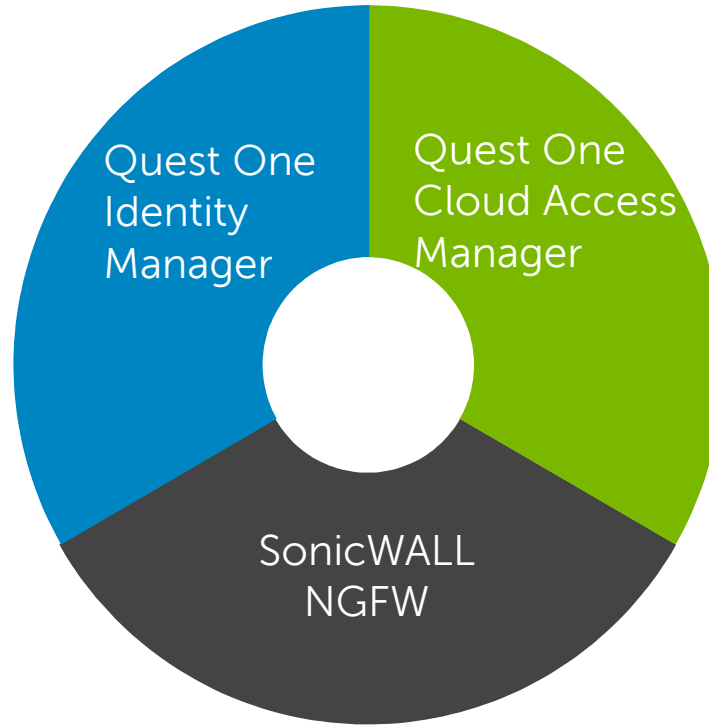
- Confidence in the appropriateness of access
- Ease of SoD
- User access and privileged access equals in the governance universe
- The right powers in the hands of the right people
- Unified everything...policy, identity, roles, rules, workflows, attestations, etc.
- Finally take control of your audits



# Tying Governance to Enforcement

## Identity and Access Governance

Policy, entitlements, role management and self-service access request



## Multi-faceted SSO, Federation & Authorization

Web, Federated & Legacy SSO, Coarse & Fine Grained Authorization with Just-in-Time provisioning, audit and access management

## Zero Touch Context-aware Adaptive Authorization

Controlling application access at the network



# Complete identity & access management

## Access Governance

Manage access to business-critical information

- Access request and certification
- Fine-grained application security
- Data access management
- Role engineering
- Automated provisioning

## Privileged Account Management

Understand and control administrator activity

- Granular delegation
- Enforce Separation of Duty (SoD)
- Enterprise privilege safe
- Session management
- Keystroke logging

## One Identity

## Identity Administration

Simplify account management

- Directory Consolidation
- AD Administration
- Virtual Directory Services
- Single Sign-on
- Strong Authentication

## User Activity Monitoring

Audit user activity

- Granular AD auditing
- Permissions reporting
  - Log management
  - Event alerting
- Crisis resolution





The power to do more