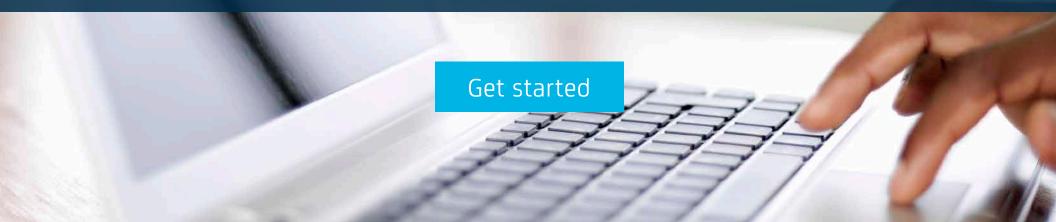
Defending Against Insider Threats in the "Snowden Era"







Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies







Understanding Insider Threats and Their Stakes

From Bradley Manning to Edward Snowden, insider threats are becoming all too commonplace and damaging.

The three major types of insider risks involve threats from:

- Malicious insiders, who deliberately steal information or cause damage.
- **Exploited insiders**, who may be "tricked" by external parties into providing data or passwords they shouldn't.

Most potential to cause significant harm

• **Careless insiders**, who may simply press the wrong key, accidentally delete or modify critical information or lose devices with sensitive information.

Why should organizations take insider threats seriously? Because the stakes have never been higher, especially given the value enterprises place on intellectual capital and trade secrets.

With the rise of Big Data analytics, businesses now store vast quantities of information to uncover important patterns and gain actionable insights. And in many cases, this data contains highly sensitive information—such as customers' personal data, credit card numbers and transactions, private communications and even locations.

The cost of security breaches averages \$5.4 million per year.¹ Other consequences include broken privacy laws, class-action lawsuits and reputational damage that can lead to substantial loss—including business closures. And since employees and other insiders have the easiest access to this data—and often little accountability—they perhaps pose the most risk to cyber-security.

"The U.S. economy has changed over the past 20 years. Intellectual capital, rather than physical assets, now represent the bulk of a U.S. corporation's value. This shift has made corporate assets far more susceptible to espionage."²

— Protecting Key Assets: *A Corporate Counterintelligence Guide*, The Office of the National Counterintelligence Executive (ONCIX), 2013.

¹ Ponemon Institute, 2013 Cost of Data Breach Study.
² Ocean Tomo Intellectual Capital Equity, Courtesy Office of the National Counterintelligence Executive.



Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

The Real and Substantial Threat of Insider Attacks

Using such tools as email, collaboration software, cloud services, FTP, USB drives and mobile devices, malicious insiders can attempt the following:

- IP theft Stealing intellectual property from the organization
- Espionage Uncovering classified information, trade secrets and intellectual property to gain national, strategic or competitive advantage
- **Fraud** Using unauthorized modification, addition or deletion of an organization's data for personal gain
- IT sabotage Leveraging IT to direct specific harm at an organization or an individual

What makes insider threats particularly dangerous is that they are usually the most difficult to detect. The 2013 *Verizon Data Breach Investigations Report* found that 62 percent of insider security breaches took months (or even years) to be discovered.³

And to make matters worse, once the problem has been identified, the data has often landed in the worst possible place. About 65 percent of employees who committed insider IP theft had already accepted positions with a competing company or started their own company at the time of the theft. About 20 percent were recruited by an outsider who targeted the data. And, more than half steal data within a month of leaving.⁴

³ Verizon, Verizon Data Breach Investigations Report, 2013.

⁴ Behavioral Risk Indicators of Malicious Insider IP Theft: Misreading the Writing on the Wall, Eric D. Shaw, Ph.D., Harley V. Stock, Ph.D.

Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

Knowledge is the First Line of Defense – Test Your Misconceptions About Insider Threats

The first step to managing insider threats effectively is to understand the reality of the threat environment and the best ways to defend against it.

Test your knowledge with this quick quiz

Quiz

How can you identify high-risk individuals within your organization? Review this chart and <u>find out</u>. There should be no exceptions to the principle of least privilege access.



Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

The Challenges of Defending Against Insider Threats C

Understanding the insider threat landscape is the first step to decreasing risks. But reducing insider security breaches can be easier said than done. Organizations commonly face the following challenges:

018F

Difficulty managing trust

Insider resistance to new security controls

Ineffective management of privileged users

- Privileged users with total access to key systems, applications and information
- Widespread sharing of administrator passwords
- Inability to identify specifically who performed which action on what system

Poor overall identity governance

• Inadequate controls over user identities, access and information use

Inadequate information classification and policy enforcement

- Lack of knowledge as to the location of sensitive information
- Poorly defined and communicated policies for confidential data handling
- Ineffective controls to detect and prevent inappropriate transmittal or disclosure of private information

Reactive response

 Lack of analytic and predictive capabilities to help prevent insider attacks, or at the very least, identify "at-risk" insiders

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Insufficient auditing and analytics

- No way to continuously audit access
- An overwhelming volume of log data generated, making auditing time-consuming and complex

No comprehensive, written acceptable-use policies

 Lack of detailed acceptable use policies for all employees

Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

Trust and Security – Striking the Right Balance

"Trust" does not mean giving employees unrestricted and unnecessary access to information. The key is to find the right balance between employee enablement and control by:

- Deterring security breaches by enforcing accountability To make malicious insiders think twice before acting
- Implementing least-privilege access To deny actions and limit the damage done by all types of insider attacks (including inadvertent, but crippling, actions)
- Controlling sensitive data To prevent security breaches using tools as simple as USB drives or email

These actions can help companies reduce insider threats and improve compliance. And, they can be implemented via:

- Data Protection Solutions
- Privileged Identity Management Solutions

Let's take a closer look at these options.

Test your data loss and theft exposure take the quiz

Quiz

Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies



The Problem with Privileged Identities

As numerous high-profile security breaches demonstrate, dealing with privileged identities is a very difficult, complex issue. The problem usually occurs when users with unrestricted, all-powerful access aren't made accountable. This is often due to privileged accounts typically being shared, with multiple people having access to the same identities and passwords.

Virtualization magnifies these issues. It adds additional administrators who have the ability to make significant changes to a virtual environment while enforcing little accountability for their actions.

Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

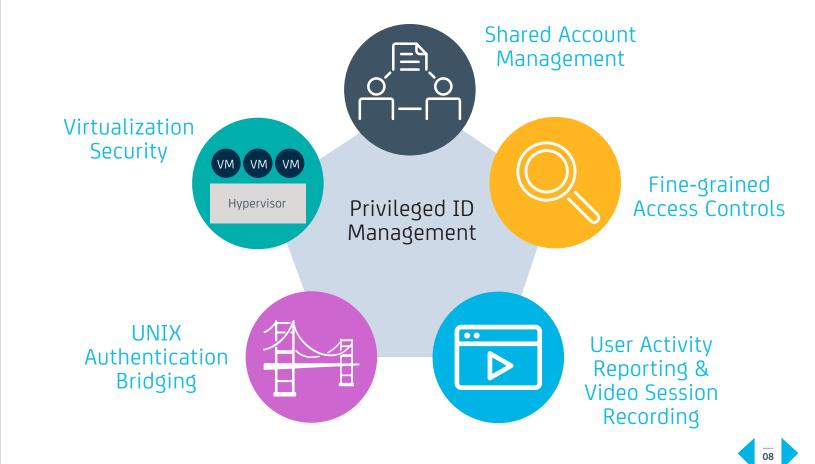
What to Look for

About the Solutions from CA Technologies

The Five Essential Capabilities of Privileged Identity Management (PIM) Solutions

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An industry-leading privileged identity management solution should be comprehensive and include:



Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

PIM Capability 1: Shared Account Management

Fine-grained Access Controls

Shared Account Management helps organizations control access to privileged, administrative accounts (including "break glass" functionality) with password storage and automatic login capabilities.

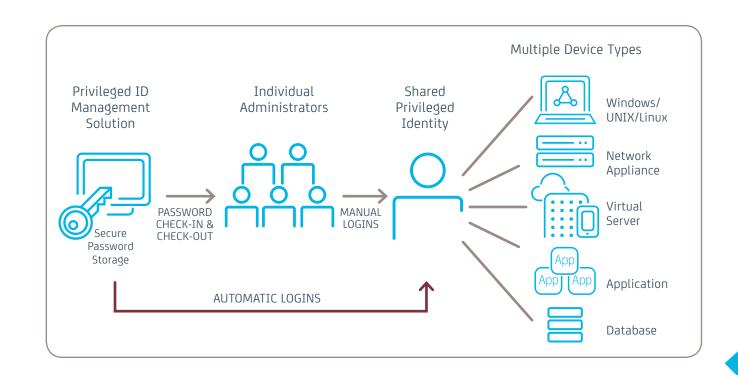
User Activity Reporting & Video Session Recording

This is the starting point for most privileged identity management solutions.

Benefits include:

Shared Account Management

- A reduction in the risk of unauthorized users gaining access to privileged accounts
- Improved accountability via prevention of password sharing





Virtualizatio Security

Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

PIM Capability 2: Fine-grained Access Controls

Fine-grained Access Controls



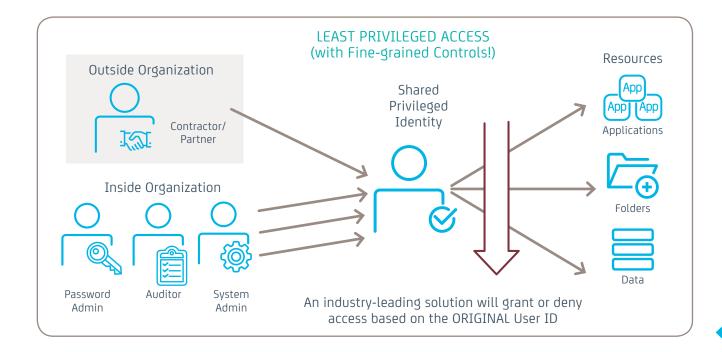
Fine-grained access controls allow enterprises to control what access users have based on their individual identities, even when they're using a shared administrative account.

User Activity Reporting & Video Session Recording UNIX Authentication

Benefits include:

 Reduced risk by providing administrators with only the minimum privileges they need to do their jobs

This capability essentially enables two or more users to be logged into the same administrative account, but have different access rights based on their original user ID and role.



Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

PIM Capability 3: User Activity Reporting & Video Session Recording

Fine-grained Access Controls



User activity reporting records all user actions—tracking by individual, even when a shared account is used. Ideally, this capability should trace an IT system in a video-like format—ensuring that all users can be held accountable for their actions.

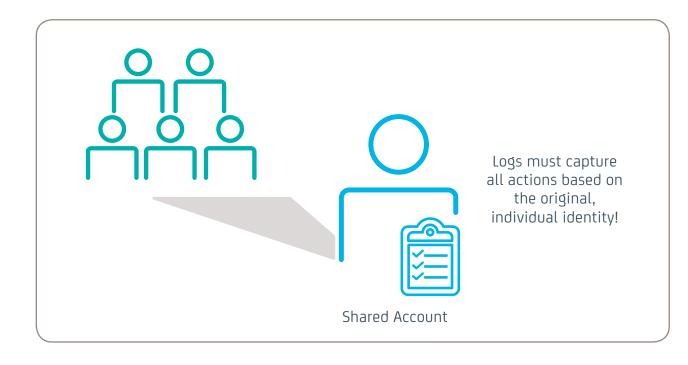
User Activity Reporting &

Video Session Recording

Bridging

Benefits include:

- A simplified way to determine "who did what" in a forensic investigation, via an easy visual record instead of the need to search through incomprehensible log files
- Enabled accountability for users of IT systems
- Authorized logs for applications that do not natively produce logs



Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

PIM Capability 4: UNIX Authentication Bridging

Fine-grained Access Controls



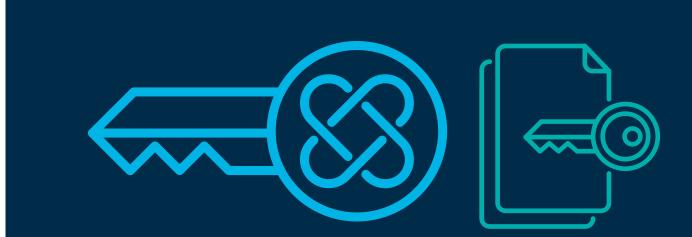
UNIX authentication bridging authenticates users on UNIX and Linux systems to the Microsoft Active Directory—thus providing a single place to determine access instead of a set of distributed password files.

User Activity Reporting & Video Session Recording

UNIX Authentication Bridging

Benefits include:

- Consolidated authentication and account information in Active Directory, as opposed to the need to manage UNIX credentials locally on each system
- Decreased administrative overhead



Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

PIM Capability 5: Virtualization Security



Virtualization security requires a Privileged Identity Management solution that controls privileged users on the hypervisor, while providing virtualization-aware automation of security controls on virtual machines. It also tracks and audits access to the host operating system and supports auditability across all virtual machines to ensure compliance.

Benefits include:

- Improved compliance
- Reduced risks of virtualization, including hypervisor administrators



Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

Mitigate Insider Risks with Data Protection Solutions

Data Protection solutions are designed to:

- Track and control how authorized users handle sensitive and protected information
- Help organizations protect private data
- Assist in behavioral profiling of employees
- Serve as an effective training tool for security awareness
- Integrate with other security and compliance solutions to prevent unauthorized access to critical data

Enterprises can leverage Data Protection solutions to protect four critical types of data:

- Data at access—Sensitive information that individuals in inappropriate roles are attempting to access
- Data in use—Private data handled on a local workstation, laptop or mobile device
- Data at rest—Data on shared folders, document repositories, public folders, ODBC sources and collaborative systems
- Data in motion—Data communicated over the network

Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

What to Look for in a Data Protection Solution



An industry-leading Data Protection solution should protect:

- Data at access by classifying content, enabling fine-grained access controls. Ideally, it should:
 - Include a web service API that enables external commands and integration of classification data
 - Support IAM, storage, file servers and collaboration software



Data in motion through implementation as a network appliance or an integration directly with ICAP servers and MTAs, enabling organizations to monitor data at network egress points (including web, email, instant message and FTP protocols).

- Data in use through implementation of a highly scalable endpoint agent, enabling enterprises to protect data at the source via:
- Controls for email, web, printing and data saving
- Scans for sensitive data on the endpoint
- Online and off-line enforcement
- Incident-appropriate response upon detection of a violation
- Education of end-users (educational popup windows to explain company or regulatory policy)

Data at rest through implementation of a local server or network scan, enabling scans for structured and unstructured data across various database, file and document repositories. Capabilities should include:

- Discovery and scanning tasks that can be executed on-demand or on a specified schedule
- Options to delete, copy, stub or move to another location
- Integration with file encryption and rights management technologies

What to Look for in a Data Protection Solution Continued

Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

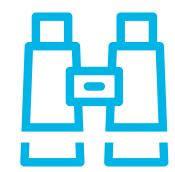
Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

What to Look for in a Data Protection Solution Continued



An industry-leading Data Protection solution should also:

Provide a wide variety of monitoring and control options, including:

- Monitoring for violations
- Blocking improper use
- Quarantining for approval
- Delivering warnings to educate users about potentially improper data usage
- Encrypting valid use
- Assigning digital rights
- Provoking justification for potentially "improper" use
- Replacing sensitive data with links
- Moving stored data



Classify when files are created to eliminate costly discovery processes.

- Traditional Data Protection discovery solutions can help with asynchronous discovery of sensitive content and consolidation of data, but content verification, classification and remediation of access controls remain a costly, resource-intensive effort.
- By leveraging fine-grained access controls, an effective Data Protection solution should classify data and enforce access and other file handling rules as content is being written to file shares and collaboration sites. This can eliminate the need to maintain costly manual discovery and remediation processes.

Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies



Get an overview of how CA Privileged Identity Manager can help reduce risks.

About the Solutions from CA Technologies Continued

About the Solutions from CA Technologies

CA Privileged Identity Manager

CA Privileged Identity Manager is a comprehensive solution for privileged identity management in both physical and virtual environments. They help to mitigate risk and facilitate compliance by controlling how privileged users access and use enterprise systems and data across the IT environment to achieve a higher level of security, reduced administrative costs and easier audit/compliance processes.

CA Privileged Identity Manager helps organizations:

Enable privileged users' accountability.

Control and monitor how privileged users access and manage enterprise data, enabling accountability and segregation of duties.

Secure both physical and virtual environments.

Control privileged users on physical systems, virtual machines and the hypervisor.

Facilitate compliance (including the virtual data center).

Address regulatory compliance by proactively reporting on the status of key compliance policies, through hypervisor security controls and privileged identity management.

Reduce IT costs through automation.

Increase automation, including password management, on both physical and virtual systems.

Improve security through automation.

Use policy-based automation to reduce human error, enabling required changes to occur in real-time and improve security.

Expedite adoption of virtualization.

Control privileged user actions in virtual machines and the hypervisor, enabling virtualization of critical servers.

Prevent password theft and sharing.

Prevent password sharing and "over the shoulder" password theft, while also eliminating the need to cut and paste passwords.

Create a secure multi-tenant environment.

Use network zoning and hypervisor hardening capabilities to enable secure multi-tenancy.

Reduce UNIX and Linux administration costs.

Reduce the cost of UNIX and Linux account management by authenticating users to Microsoft Active Directory and providing single sign-on capabilities.



Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies



<u>Learn how CA Data</u> <u>Protection can safeguard</u> <u>your critical data.</u>

About the Solutions from CA Technologies

CA Data Protection

CA Data Protection allows organizations to control information in use, in motion, at rest and at access. CA Data Protection delivers these capabilities through CA Data Protection Endpoint, CA Data Protection for Networks, CA Email Supervision, CA DataMinder Protection for Stored Data and integration with CA Identity & Access Management (CA IAM) solutions. CA Data Protection is an information protection and control solution that helps minimize the accidental, negligent and malicious misuse of data while helping to comply with various data protection standards and regulations. Through the delivery of broad information and communication coverage, precise policy enforcement through identity context and content-aware identity and access management (IAM), organizations are able to take a comprehensive approach to reducing risk to their most critical assets while enabling critical business processes to continue.

CA Data Protection delivers:

Broad information control.

CA Data Protection delivers broad control of information across the enterprise. Not only does CA Data Protection control information at the endpoint, over the network, on the message server and in the repository, but it also controls access to information.

Identity-centric data protection.

CA Data Protection leverages identity across policy, user entitlements and delegated remediation. Through the application of identity, organizations are able to precisely enforce policy, enable persistent protection and protect employee privacy.

Content-aware IAM.

CA Data Protection's ability to accurately classify content enables IAM technologies to make more informed and intelligent decisions. For example, CA SiteMinder[®] is able to consume content classification information to make fine-grained authorization decisions.

Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

Appendix

Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

What is a High-risk Individual?



Previous page

1

Understanding Insider Threats

Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

Misconceptions Quiz



Most people behind insider threats are "hackers."



Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

Most people behind insider threats are "hackers."

False: You are correct.

Insiders are very rarely hackers. They are individuals who:

- Have access to sensitive data or know where sensitive data resides
- May have privileged access to private systems
- Have been entrusted with all the tools they need

Next question

Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

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Next question

1

Understanding Insider Threats

Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

Misconceptions Quiz



Insider threats are primarily a technical problem.



Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

Insider threats are primarily a technical problem.

False: You are correct.

While technical issues may influence security breaches, organizational factors that contribute to insider-driven attacks include inadequacies in:

- Management practices (especially a lack of awareness of high-risk individuals within the enterprise)
- Auditing functions
- Security culture
- Role-based, personnel security risk assessments
- Pre-employment screening
- Communication between business areas
- Corporate governance

Next question



Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

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Next question

Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

Misconceptions Quiz



Organizations must blindly trust their administrators.



Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

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False: You are correct.

Applying the principle of "least privilege access" to all employees and administrators is a safer way to manage trust. The principle of least privilege access:

- Restricts access to the minimum a user needs to do his/her job
- Limits the ability for damage to be done by a malicious or exploited insider
- Prevents careless mistakes

Next question

Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

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Next question

Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

Misconceptions Quiz



Detection of security breaches is the most important part of an insider threats defense program.

True False

Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

Detection of security breaches is the most important part of an insider threats defense program.

You are correct.

False:

Deterrence is more important than detection. Organizations can prevent security events from happening in the first place by:

- Deploying data-centric (vs. system-centric) security
- Crowd-sourcing security
- Using positive social engineering to constantly remind insiders of proper data usage policies

Next question

Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

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Next question

True:

Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

Misconceptions Quiz



Analyzing massive amounts of data is the solution.



Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

Analyzing massive amounts of data is the solution.

False: You are correct.

Organizations should analyze the *right* information. It's most important for enterprises to:

Know Their People

Know Their Data

- Work hours
- Network use patterns
- Devices they use
- Recent position changes
- Ambitions

- Data that would cause the most long-term damage to an organization, if exposed
- Data that, if breached, would cause the most short-term damage
- Data that must be protected, according to laws and regulations

Know Their Enemy

- Potential targets of insider attacks
- High-risk individuals within the organization

Return to presentation



Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

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Know Their Enemy

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Return to presentation

Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

About the Solutions from CA Technologies

Identifying Exposure to Data Breaches

	1	Do you know where all of your sensitive data is?
uiz	2	Is your sensitive data properly classified and tagged?
	3	Do the right people have access to the right data and ONLY the right data?
	4	Are you able to keep track of all of your organization's newly-created data?
	5	Do your users understand your organization's policies and procedures for handling data and are they following them?
	6	Can you identify users that might pose greater risk to the organization based on their data usage patterns and/or behavior?

If you answered "**no**" to three or more of these questions, your organization may be vulnerable to (or has already experienced) data theft or exposure. Read the rest of the e-book to learn how to reduce your risks now and in the future.

If you need more assistance, <u>ca.com/data-protection</u> go to learn more about our capabilities.

Previous page

Real and Substantial Threats

Test Your Misconceptions

Defending Against Insider Threats

Striking the Right Balance

The Problem with Privileged Identities

Capabilities of PIM Solutions

Mitigate Insider Risks

What to Look for

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