

Cybersecurity Webinar Series

Improve Compliance by Modernizing User Access Reviews

Presented by: Viviana Campanaro, CISSP

December 13, 2022

jack henry[™]



agenda



The challenges

The reality

Effective access management

Tips to improve compliance



The challenges



Lack of Access Management is Causing Data Breaches

2022 Ponemon Institute Report

70% of organizations that experienced a third-party data breach stated the breach came from giving that third party too much access.





- **User access management challenges**



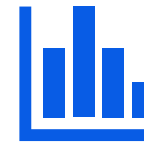
visibility

64% don't have
visibility into access
levels



control

57% are unable to
assign least
privilege access



monitoring

58% don't have the
internal resources
to monitor third
party access



- **User access management challenges**



Threats

Sophisticated cyber threats exploit access credentials.

CISA Alert AA22-137A



Complexity

Many access accounts for many systems on your network.



Resources

User access reviews are cumbersome and time consuming.



- **User access management challenges**

Ransomware Claim Denied Based on Ineffective User Access Management

A recent court ruling allowed Travelers to deny a claim following a ransomware attack because the insured party misrepresented its cybersecurity posture on the insurance coverage questionnaire.

Source: Insurance Journal, July 2022





- **User access management challenges**

Cyber Insurance coverage question:

“Does the Applicant restrict user rights on computer systems such that individuals (including third party service providers) have access only to those areas of the network or information that are necessary for them to perform their duties?”



The reality



- **Last decade's assumptions**

By 2018...

99% of vulnerabilities exploited will continue to be ones that teams knew existed.

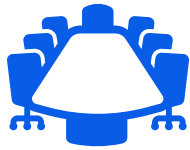
100% of large organizations will have discussed cybersecurity at the executive level.

By 2020...

80% of cloud breaches due to customer misconfiguration, mismanaged credentials or insider theft, not cloud provider vulnerabilities.



- **Gartner predictions for 2023 and beyond**



Board Governance

40% of boards will have dedicated cyber committees



Third Party

60% will use cybersecurity risk as primary criteria for business transactions



Resilience

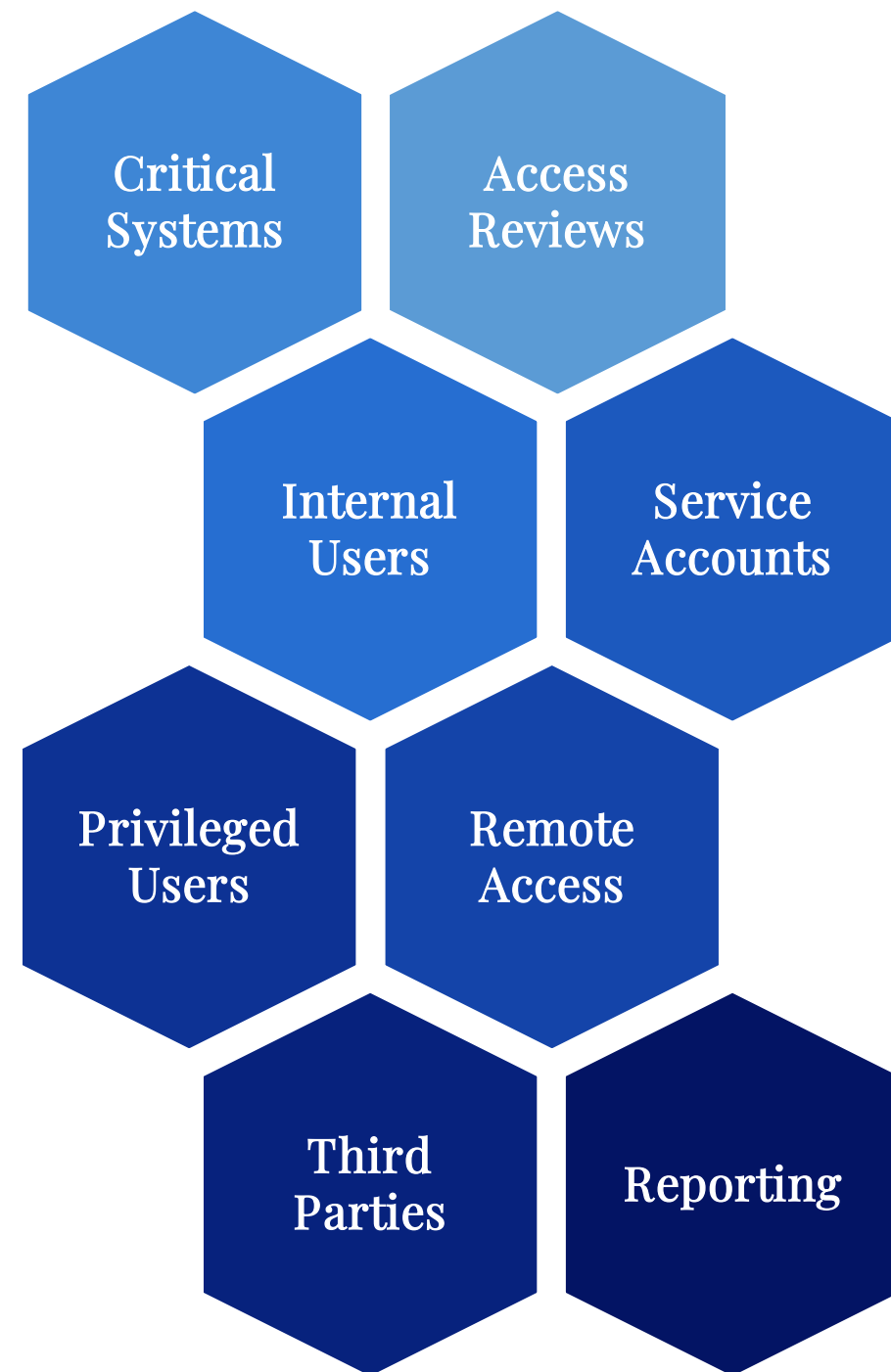
70% of CEOs will mandate a culture of organizational resilience



- **FFIEC guidelines**

Authentication and Access to FI Services and Systems

August 2021



- Access reviews today...

Manual process

System-generated reports reviewed and approved using separate manual processes.

PERMISSIONS	ROLES					
	System administrator	Organization administrator	Project administrator	Reuse administrator	Review administrator	Risk administrator
Set up						
Install the application	X					
Configure email servers	X					
Re-index system	X					
Configure authentication	X					
Upload reports (self-hosted only)	X	X				
Write						
Add, edit, delete reuse rules		X		X		
Add and edit item types		X				
Add users	X	X				
Add projects		X				
Configure organization	X	X				
Set project permissions	X	X				
Edit, delete or recover any baseline		X	X			
Delete or recover baseline sources		X	X			
Add releases		X	X			
Create dashboards		X	X			
Select item types for projects		X	X			
Manage permissions for existing users		X	X			
Review						
Recover a deleted review		X			X	
Risk						
View all analyses						X
Edit templates						X

The background is a solid dark blue. It features three overlapping circles of a lighter blue color, arranged horizontally. Two vertical lines of the same lighter blue color run through the circles, one on the left and one on the right, intersecting them.

Effective access management



- **Effective access management**

Asset inventory

What systems do employees access?



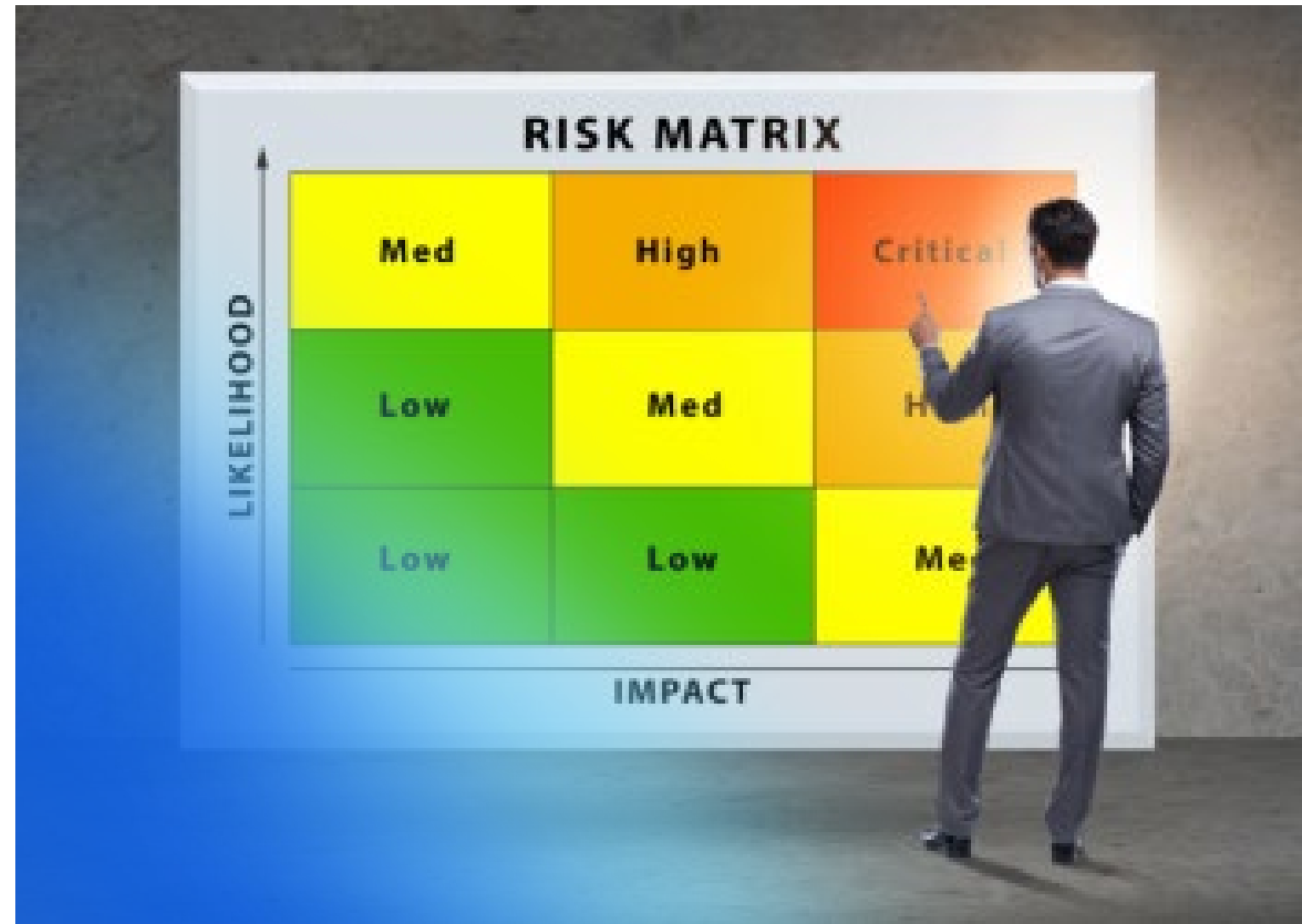


- **Effective access management**

Asset classification and user roles

Which systems are
critical?

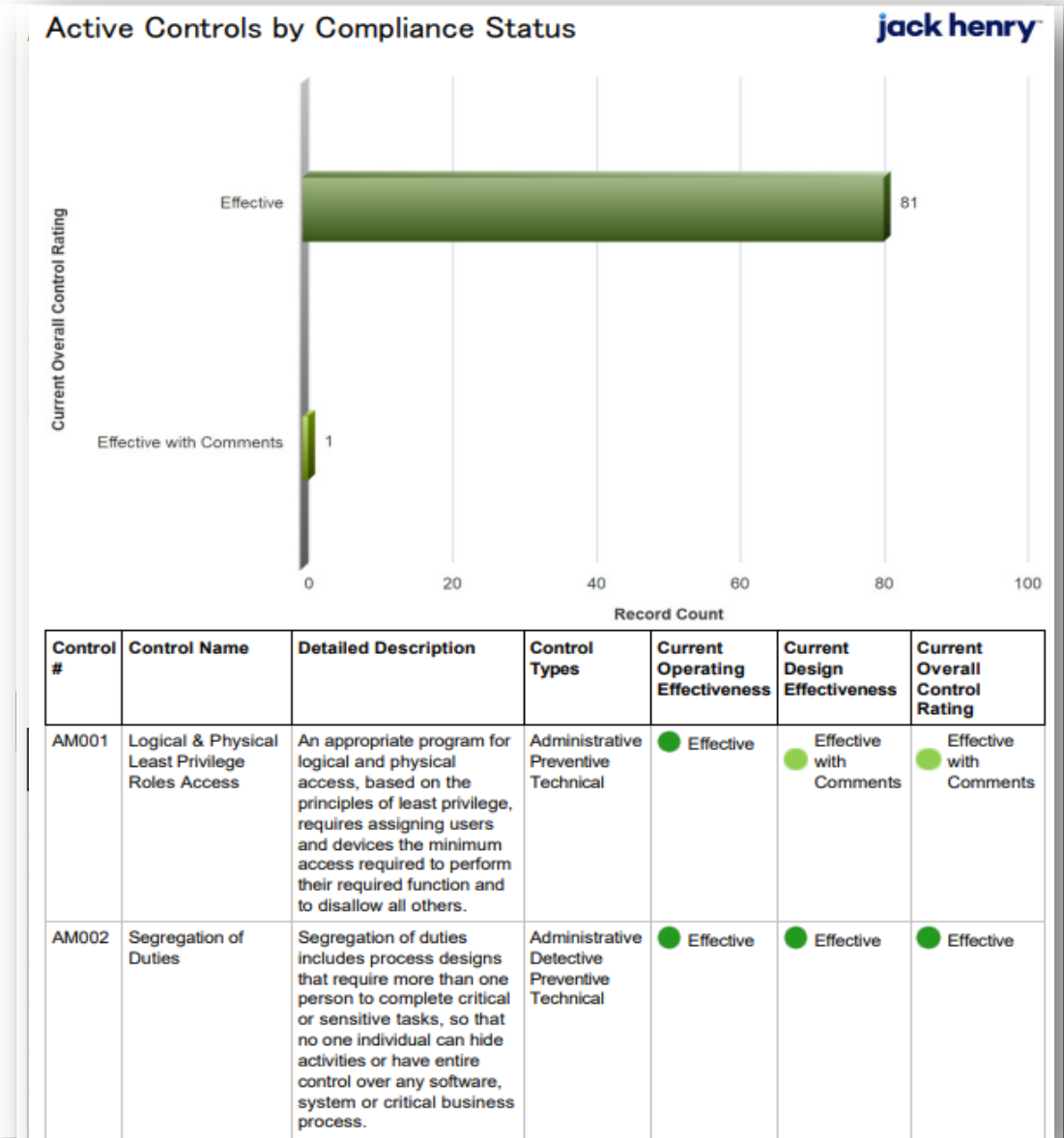
Who are our users?



- **Asset-based risk assessment**

Balance risk and controls

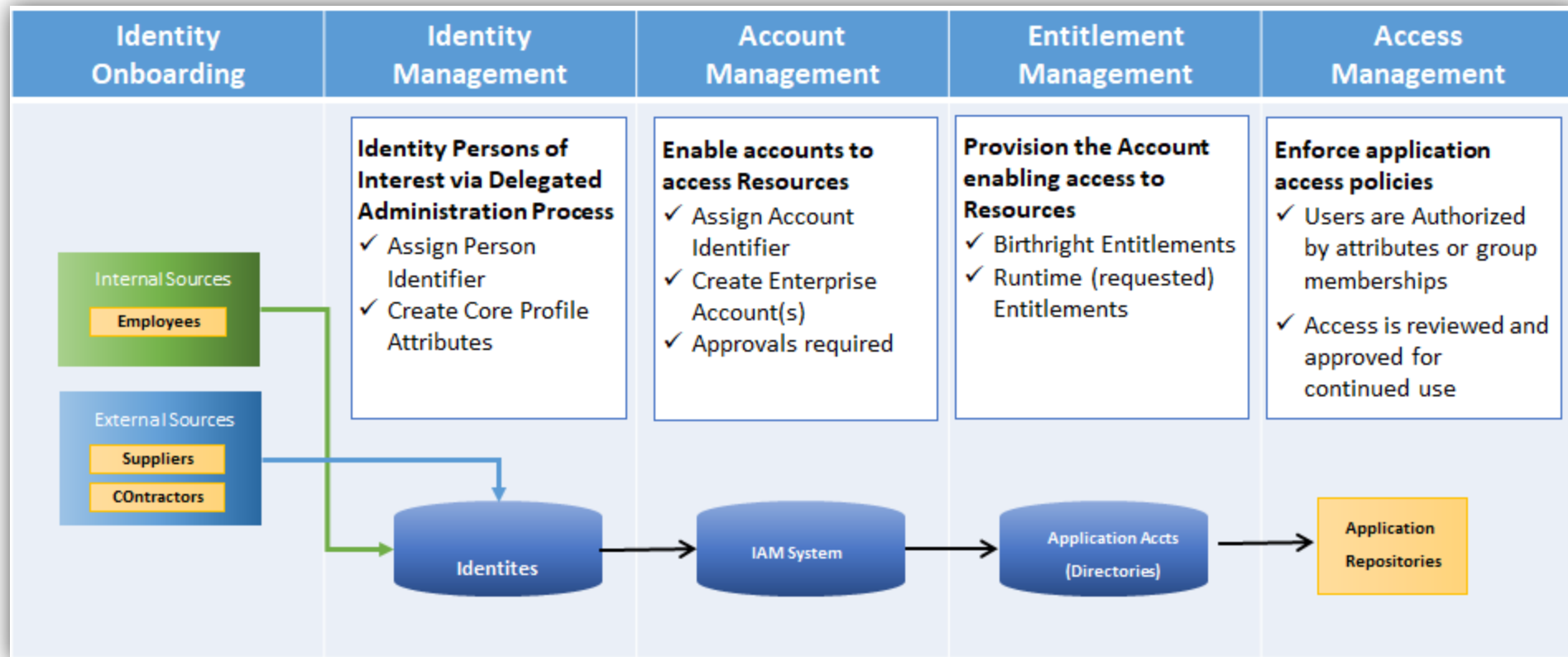
- Asset classification
- Risk results
- Control validation



- **Effective access management**

Automation

Which access control tool(s) do you need?



Authentication Monitoring

Alerts of access attempts

- Administrator failed logons
- Multiple logon failures
- Successful logon from outside the US



User Access Management

Tips to Improve Compliance



- **Improve compliance**

Access Management Policy

User status

Role changes

Automatic de-provisioning



Improve compliance

Control Access

- Least privilege
- Local admins
- Remote access





Improve compliance

Credential Hardening

- MFA
- Default passwords
- Monitoring



- Improve compliance

Risk-based approach

- Privileged accounts
- Sensitive systems
- Recent user changes
- Reviewer tools

Name	Supervisor (Manager)	Date Reviewed	\\C:\PFS08\Address	\\C:\PFS08\Brandon Testing	\\C:\PFS08\ExchangeOAB	\\C:\PFS08\GroupMetrics	\\C:\PFS08\Marketing	\\C:\PFS08\Profiles	\\C:\PFS08\Shares	\\C:\PFS08\Students	\\C:\PFS08\Brandon Testing*	Reviewer Comments	Full Name	Job Title	Office	E-Mail
John Breckenridge	Brandon Breckenridge		x	x	x	x	r	x	rw	x	x		John Breckenridge	Support Engineer	1st Floor North Wing	jbreckenridge@cp.local
Brandon Breckenridge	Benjamin Land		x	x	x	x	r	x	rw	x	x		Brandon Breckenridge	Senior Support Engineer	1st Floor North Wing	BrandonBreckenridge@cp.local
John Breck	Brandon Breckenridge		r	x			r	x	rw	x	r		John Breck	Electrical Engineer	Downtown Office	jbreck@cp.local
DSRWZP			x	x	x	x	r	x	rw	x	x		DSRWZP	Service Account	East Coast Office	dsrwo@cp.local
Brian Ralph	Brandon Breckenridge		r	x			r	x	rw	x	r		Brian Ralph	Marketing	Downtown Office	bralph@cp.local
Josh Lambert	Brandon Breckenridge		r	x			r	x	rw	x	r		Josh Lambert	Sales Representative	East Coast Office	jlambert@cp.local
Steven Pence	Brandon Breckenridge		r	x			r	x	rw	x	r		Steven Pence	Account Manager	1st Floor South Wing	steven.pence@visualclick.com
Fred Henry	Brandon Breckenridge		r	x			r	x	rw	x	r		Fred Henry	Marketing Lead	1st Floor South Office	fhenry@cp.local
Bryan Jackson	Brandon Breckenridge		r	x			r	x	rw	x	r		Bryan Jackson	Account Manager	Downtown Office	bjackson@cp.local
CPTRAXW			r	x			r	x	rw	x	r		CPTRAX	Service Account	West Coast Office	cptraxw@cp.local
Morgan Freeman	Brandon Breckenridge		r	x			r	x	rw	x	r		Morgan Freeman	Support Engineer	Downtown Office	mfreeman@cp.local
Josh Tatum	Brandon Breckenridge		r	x			r	x	rw	x	r		Josh Tatum	Support Engineer	1st Floor North Wing	jtatum@cp.local
Jared Thomas	Brandon Breckenridge		r	x			r	x	rw	x	r		Jared Thomas	Sales Manager	West Coast Office	jthomas@cp.local
Mary Johnson	Brandon Breckenridge		r	x			r	x	rw	x	r		Mary Johnson	Marketing Specialist	Downtown Office	mjohnson@cp.local

Legend: x = full control rw = read+write r = read-only ? = no license for path

- Improve compliance

Automated reports

- User access levels
- Access reviews
- Approvals
- Exceptions

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Tuesday, January 24, 2023

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