



GRC Technology in Action

Viviana Campanaro – CISSP

December 8, 2020



Viviana Campanaro – CISSP
Security & Compliance Sales
ProfitStars

- 20 Years Cybersecurity & IT Compliance
- 10 Years in Financial Institutions
- ISSA, InfraGard, ISC2



Discussion Topics

- GRC
- Why GRC Platform
- GRC in Action
- Where to Start





It's a scary world...

"Cybercrime Up 600% Due To COVID-19 Pandemic"

"34% of businesses hit with malware took a week or more to regain access to their data."

"7 out of every 10 malware payloads were ransomware"

"98% of cyber attacks rely on social engineering"

"90% of financial institutions reported being targeted by malware"

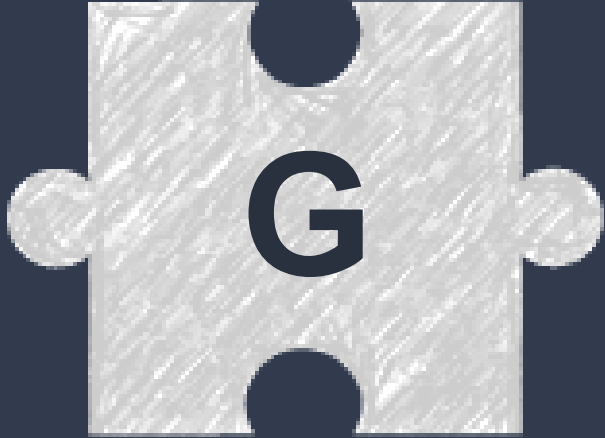
"Ransomware attacks are estimated to cost \$6 trillion annually by 2021"

"92% of malware is delivered by email"

"Over 18 million websites are infected with malware at a given time each week."

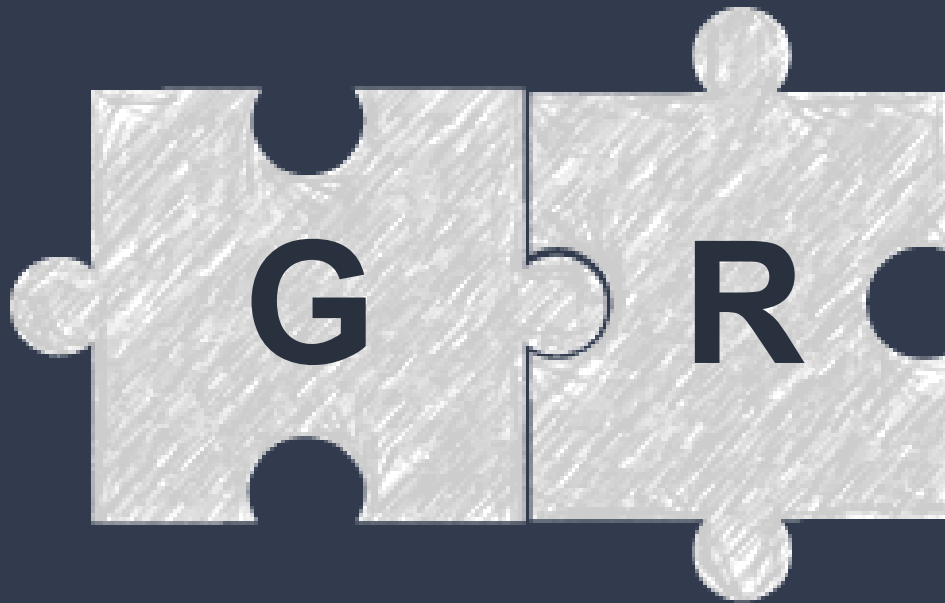
"The total malware infections have been on the rise for the last ten years"

Governance Risk & Compliance



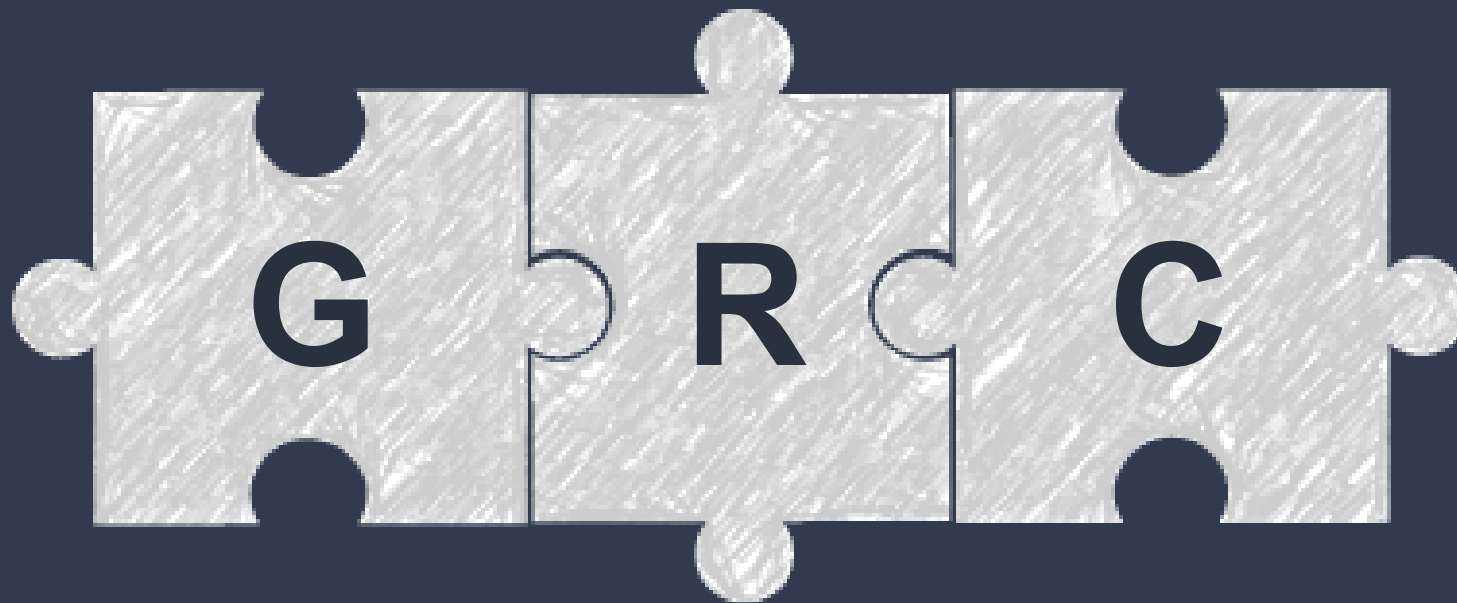
- ✓ **Set business strategy & objectives**
- ✓ **Determine risk appetite**
- ✓ **Establish culture & values**
- ✓ **Develop internal policies**
- ✓ **Monitor/measure performance**

Governance Risk & Compliance



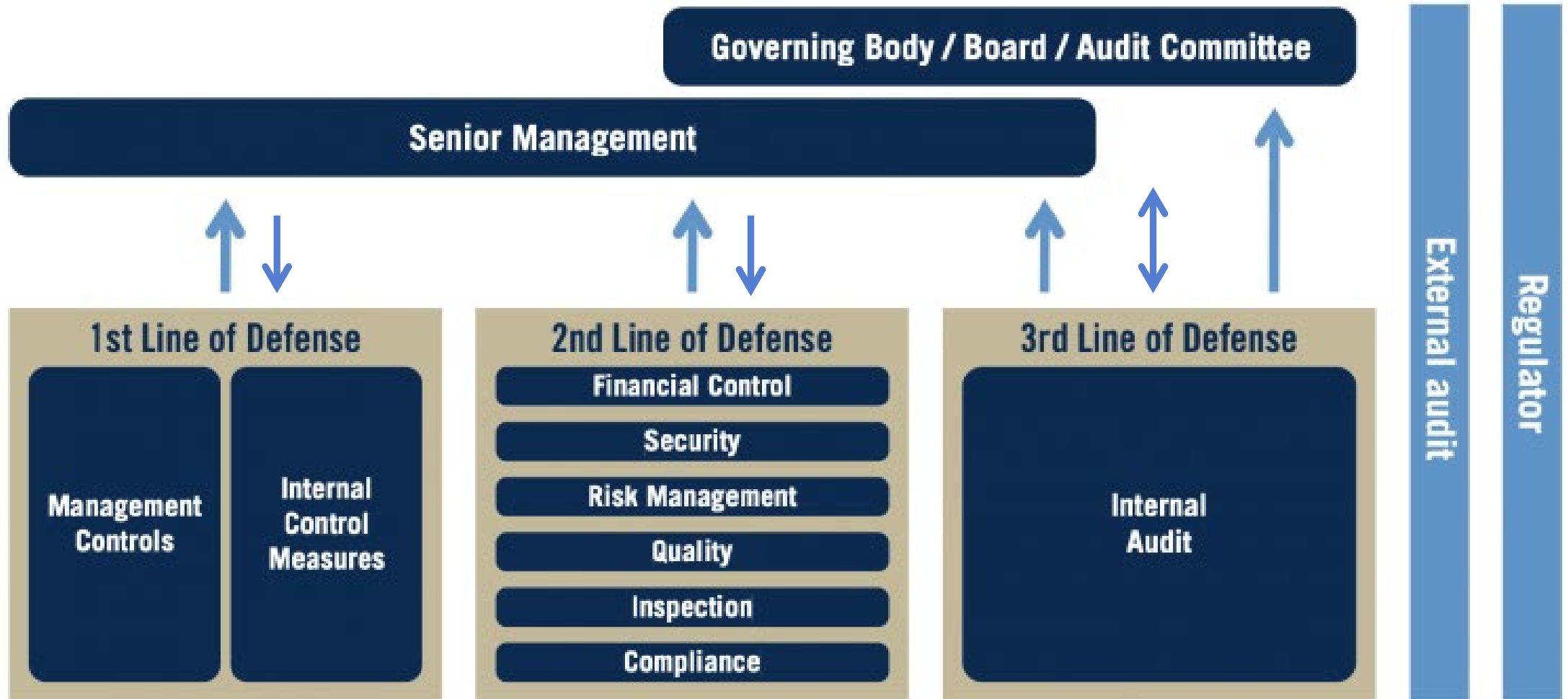
- ✓ **Risk = Possibility of loss or damage created by an activity or person**
- ✓ **Seeks to Identify and Assess risks in order to Mitigate, Accept, Avoid or Transfer them**

Governance Risk & Compliance



- ✓ Observance of relevant laws, regulations, and corporate policies
- ✓ Relies on governance standards and risk tolerance

The Three Lines of Defense Model



KEY: ↑ Accountability, reporting ↓ Delegation, direction, resources, oversight ↔ Alignment, communication, coordination, collaboration



Risk Assessments



Policies



Security Training



A blue cylinder representing a database, labeled "Audits/Exams".

[illegible]

Multiple Spreadsheets

Why GRC Platform

Improve Business Resiliency



Why GRC Platform

Mitigate Cyber Threats





Why GRC Platform

Reduce Guesswork



Why GRC Platform

Reduce Burden





Why GRC Platform

Save Time



Why GRC Platform

Save Money



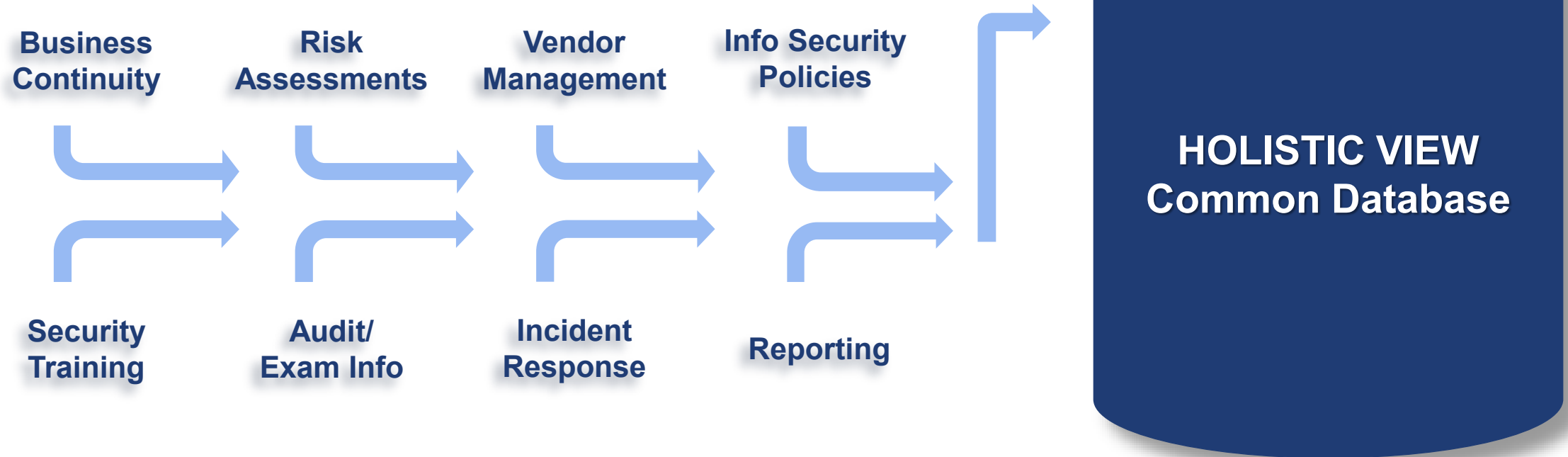
Why GRC Platform

**Gain
Efficiencies**





GRC Automated





GRC in Action

- Asset Classification
- Risk Assessment
- Recovery Planning
- Vendor Management
- Policies





GRC in Action

- **Asset Classification** - helps prioritize the efforts to **assess** and **protect** information assets which are critical to business operations.
- **Threats** – helps identify high-risk assets to be protected.





GRC in Action

- Examples

Asset Types

- ✓ Server
- ✓ Network
- ✓ Storage
- ✓ Office
- ✓ Software

Threats

- ✓ Natural
- ✓ Insider
- ✓ External
- ✓ Technical
- ✓ Vendor/3rd Party
- ✓ Cybersecurity



Asset Type

Asset Type



SERV/VM-Domain Controller

Business Process

Environment

Production

Asset Location

Asset Owner

Asset Additional Info

Asset Location
Comments

Asset Owner Comments

Asset Classification

Location

Transaction Volume

0 - Not Applicable

Customer/Member Data

Yes

Asset Criticality

5

Confidential Data

Yes

Data Sensitivity

5

Internal Use Only Data

Yes

Impact Score

5

Impact Rating

5 - Catastrophic



GRC in Action

- **Risk and Control Categories** – provides a unified approach to protect information assets critical to business operations.
- **Risk Appetite** – important to determine which and how much risk the Bank is willing to accept.

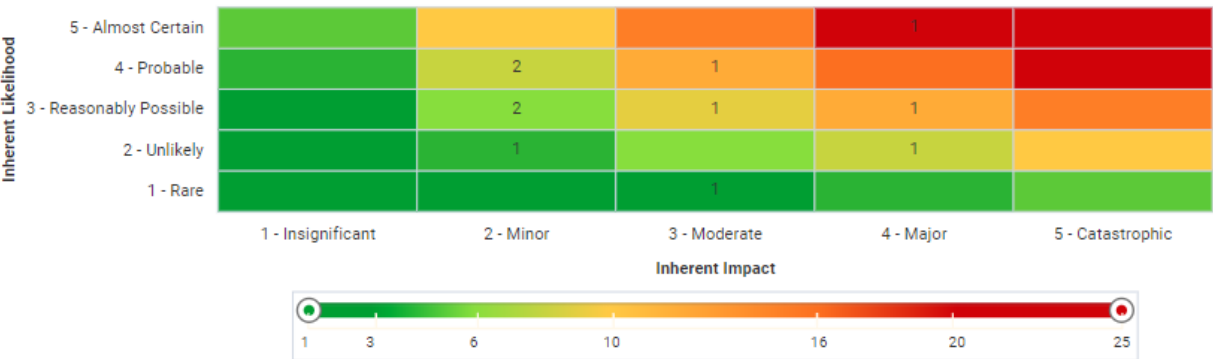


Inherent Risk Evaluation			
Inherent Risk Rating	● 4 - Major	Count of Applicable Threats	5
Overall Inherent Risk Score	19	Sum of Inherent Risk Scores	95

Related Controls						
Count of Applicable Controls	2					
Related Organizational Control(s)	Control ID	Control Name	Owner	Control In Place?	Current Control Validation Score	Current Overall Control Rating
	GC001 - Weyland-Yutani Corporation	Board Approved IS Policies		✔ Yes	3	● G - Partial 50% or Greater
	AM001 – Access Controls	Role-Based Access		✔ Yes	5	◆ C - Effective with Comments

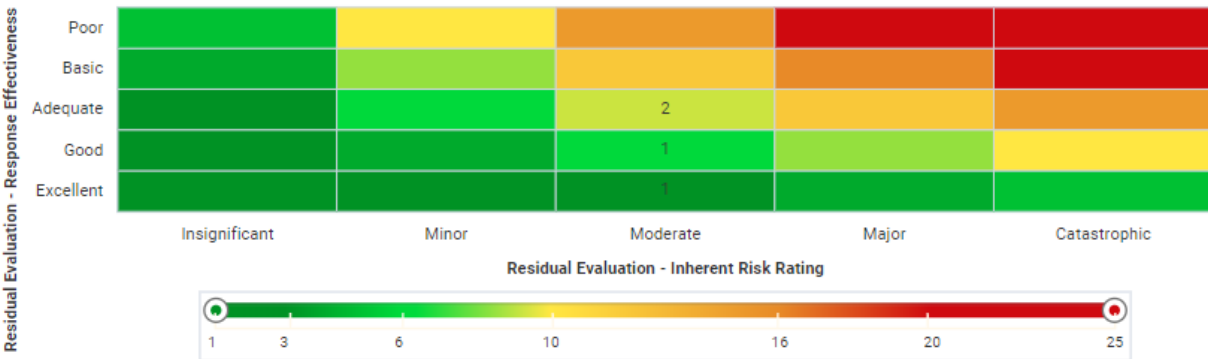
Residual Risk			
Mitigation Score	0.68	Residual Risk Score	12.6
Risk Reduction Score	0.34	Residual Risk Rating	● 4 - Major

Inherent Risk Heat Map



	Risk Id	Risk Category	Risk Title	Inherent Risk Rating	Current...	Inherent Persisten...	Inherent Velocity	Averag...
	RISK-1	Financial IT	Data Breach	Major	12	4 - Enduring	2 - Average	12.58
	RISK-2	Financial Operational Strategic	Employee Strike	Minor	3	3 - Moderate	1 - Slow	3
	RISK-3	Reputational	Corporate Reputational Risk	Moderate	6	2 - Temporary	2 - Average	7.2
	RISK-4	Financial Reputational	Financial Material Misstatement	Major	12	4 - Enduring	2 - Average	11.25
Average: 9.03								

Residual Risk Heat Map



	Risk Id	Risk Title	Risk Category	Last R...	Residual Evaluati...	Residual Evaluati...	Curren...	Curren...	Residual Risk Rat...
	RISK-3	Corporate Reputational Risk	Reputational	2/5/2019	Moderate	Adequate	4.37	1	Minor
	RISK-6	Business Continuity	Financial IT Operational	2/5/2019	Moderate	Good	5.13	1	Moderate
	RISK-9	Ineffective Security Controls	Operational	2/6/2019	Moderate	Excellent	3.42	1	Minor
	RISK-12	Risk of Financial Loss	Compliance Financial	2/1/2019	Moderate	Adequate	7.65	1	Moderate

4 items

Risks by Category and Average Score



	Risk Title	Business Owner	Risk Category	Inherent Risk Rating	Current Inherent Ri...	Residual Impact Rating	Criticality
	Money Laundering	Jason Rohlf	Financial Reputational	Catastrophic	20	2 - Minor	High
	Financial Material Misstatement	Jason Rohlf	Financial Reputational	Major	12	3 - Moderate	Medium
	Data Breach	Kyle Graves	Financial IT	Major	12	3 - Moderate	Medium



GRC in Action

- **Recovery Planning** – ensures response capabilities to safeguard employees, customers and business assets during a disruptive event.
- **BIA (Business Impact Analysis)** – should align with your risk appetite.



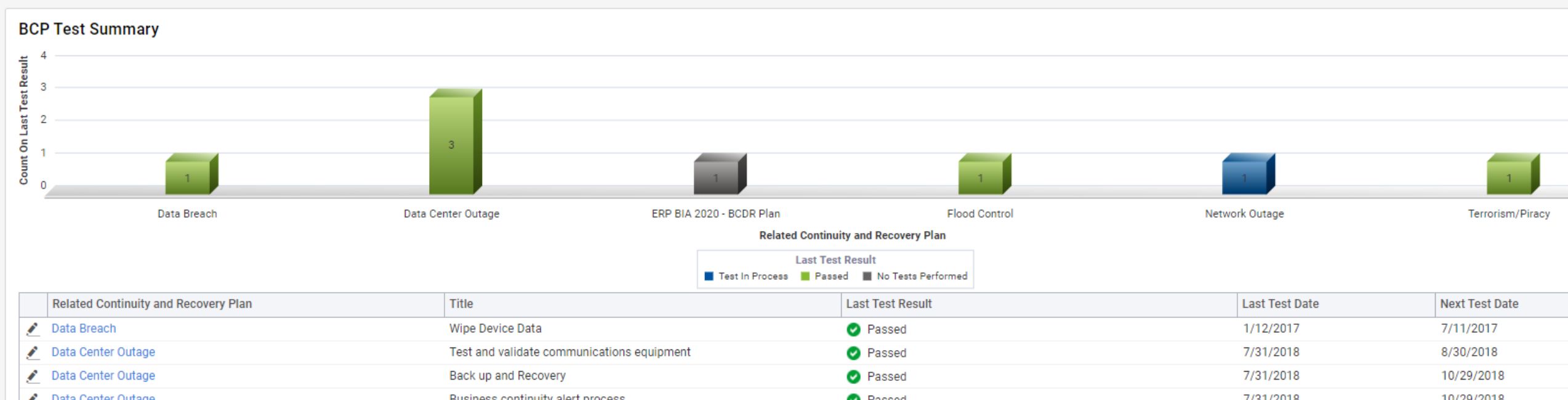
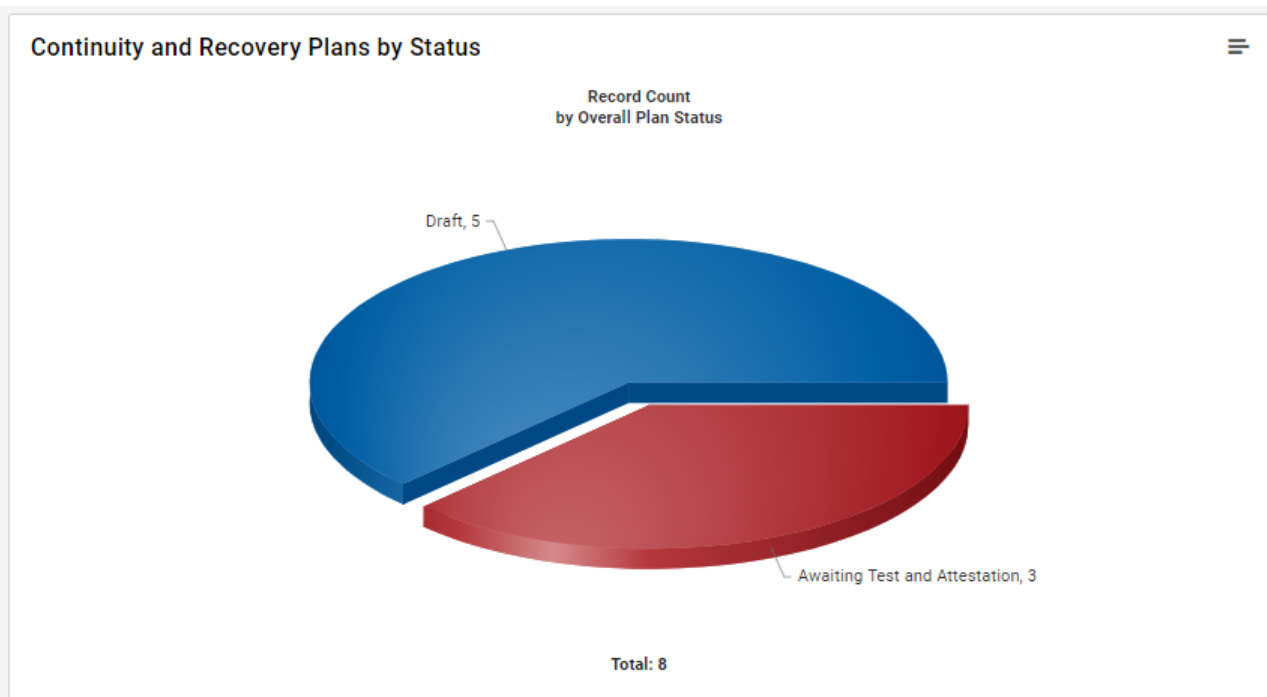
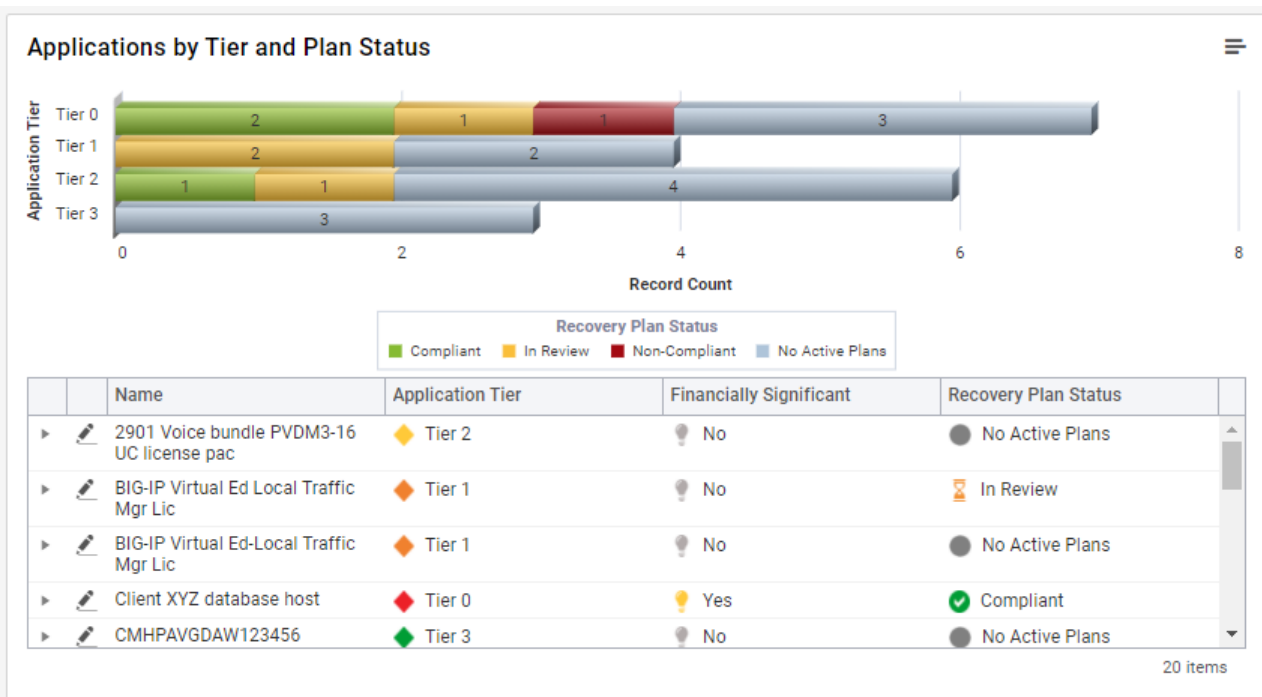
Business Impact Analysis

Description	Domain Controllers		
Data Related?	No	Recovery Point Objective (RPO)	A=No Data Loss Acceptable
Recovery Time Capability (RTC)	0-4 hrs	Maximum Allowable Downtime (MAD)	4 hrs
Off Site Storage Locations		Recovery Strategy	Backup Equipment
Supplier(s)	Servers R Us	Maintenance Provider(s)	Gladiator Technology
Recovery Priority	2	Recovery Sequence	2
Business Impact Analysis	Servers-Domain Controller		
BIA Notes			

Business Continuity Plans

Recovery Plans

Title	Type	Plan Owner	Status	Related Incident Status
Oxford Hurricane Plan	Crisis Management	ABC Bank – Sara Lee	 Compliant	 No Open Incidents
Oxford Accounting BCP Plan	Crisis Management	ABC Bank – Sara Lee	 Compliant	 No Open Incidents





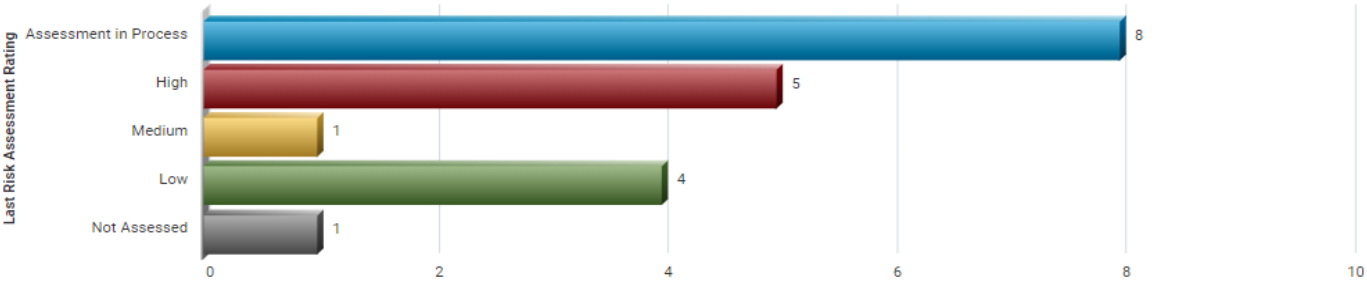
GRC in Action

- **Vendor Management** – provides visibility into your third party providers and their associated risks.





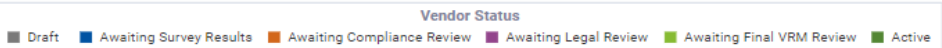
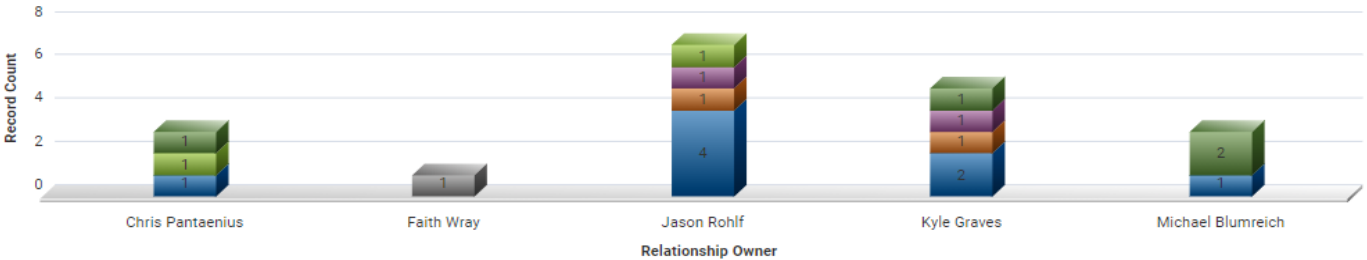
Vendors by Risk Assessment Rating



	Vendor Name	Vendor Type	Relationship Owner	Spend - Tot...	Criticality Rating	Last Risk Assessment Rating
	ABC Company	Consulting Services	Chris Pantaenius	\$247,500	High	Low
	ABC Hosting	Telecom and Networking	Kyle Graves	\$2,250,000	High	Low
	Calahan, Drake and Thompson	Business Services Legal	Chris Pantaenius	\$0	High	Low
	Cloudify	Software	Jason Rohlf	\$0	High	Assessment in Process
	Federal Reserve	Financial Services	Faith Wray	\$0	High	Not Assessed
	GRC Svstems Inc.	Consulting Services	Jason Rohlf	\$0	High	Assessment in Process
	Total:			\$11,772,500		

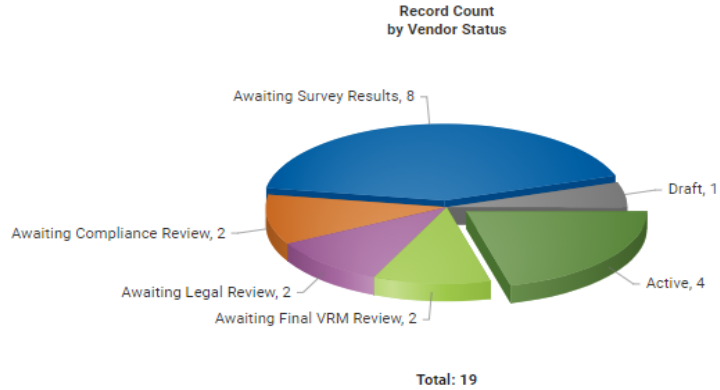
19 items

Vendors by Relationship Owner

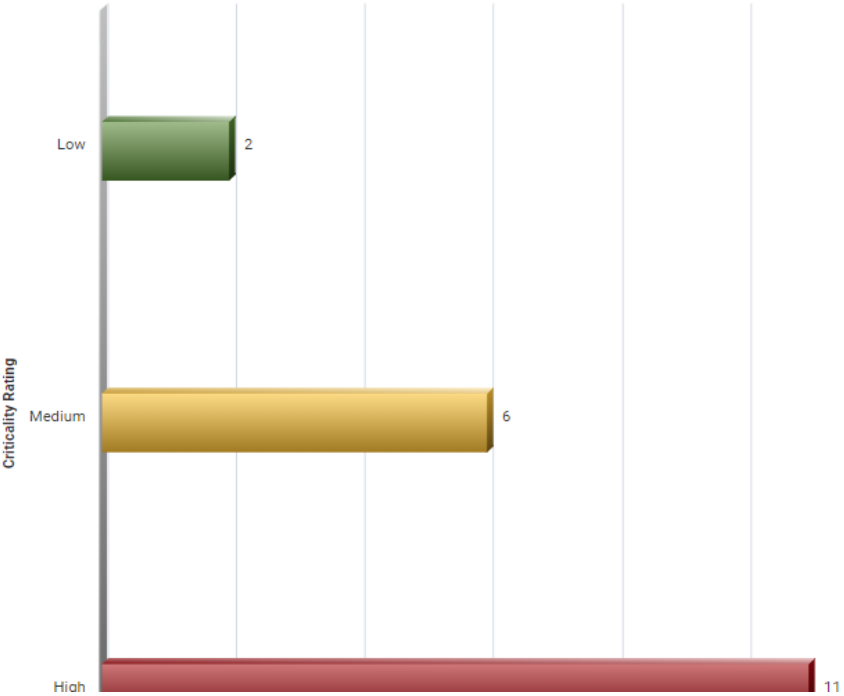


	Vendor Name	Relationship Owner	Vendor Status	Vendor Tier	Criticality Rating
	ABC Company	Chris Pantaenius	Active	Tier 2	High
	Calahan, Drake and Thompson	Chris Pantaenius	Awaiting Survey Results	Tier 3	High
	InfoTech	Chris Pantaenius	Awaiting Final VRM Review	Tier 3	Medium

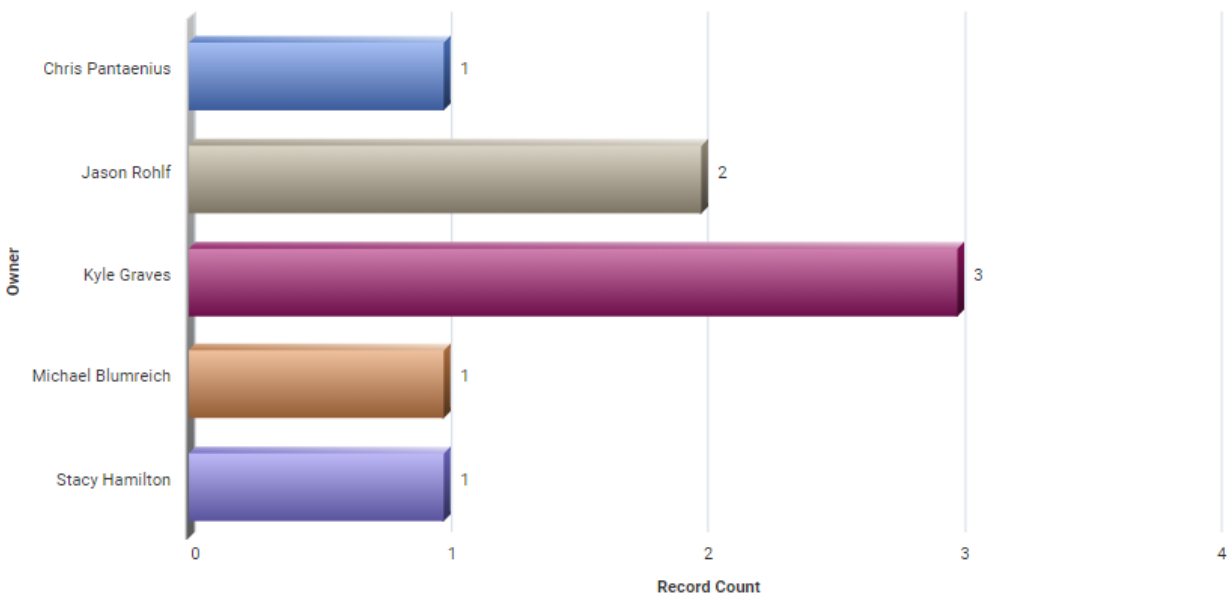
Vendors by Status



Vendors by Criticality



Policies by Owner



Pending Policy Reviews

<input type="checkbox"/>		Policy ID	Name	Owner	Review Status
<input type="checkbox"/>		001	Vendor Security Risk Management	Michael Blumreich	Awaiting Review
<input type="checkbox"/>		POL - 1900	Stored Cardholder Data Policy	Kyle Graves	Awaiting Review
<input type="checkbox"/>		TEST	Vendor Security Risk Management Standard	Jason Rohlf	Awaiting Review

3 items

Regulatory Changes Awaiting Review

<input type="checkbox"/>		UCF Authority Document	Change Date	Review Status
<input type="checkbox"/>		FFIEC IT Examination Handbook - Information Security	9/14/2017 9:20 AM	Open
<input type="checkbox"/>		FFIEC IT Examination Handbook - Management	9/14/2017 9:21 AM	Open
<input type="checkbox"/>		FFIEC IT Examination Handbook - Management	2/2/2018 1:09 PM	Open
<input type="checkbox"/>		FFIEC IT Examination Handbook - Management	2/2/2018 1:10 PM	Open
<input type="checkbox"/>		FFIEC IT Examination Handbook - Operations, July 2004	9/14/2017 9:21 AM	Open

Policies with Inactive Owners

<input type="checkbox"/>		Policy ID	Name	Statement	Category	Owner	Inactive Owner ...
<input type="checkbox"/>		001	Vendor Security Risk Management	Statement	Operations	Michael Blumreich	Inactive Owner
<input type="checkbox"/>		POL - 1100	Configuration Standards Policy	Policy: <ul style="list-style-type: none">A configuration standards document shall be created and maintained for each class of device that is installed into and/or connected directly to	Information Technology	Kyle Graves	Inactive Owner



Where to Start?

- **In-House vs. Outsourced GRC platform**
 - Cost
 - Hardware & software fees
 - Implementation
 - Ongoing administration
 - Access to 3rd Party expertise
- **Internal Resources**
 - Risk Management Committee
 - Information Security/IT Steering
 - Communication
 - Integration



Resource Center for FI's

profitstars.com/cybersavvy

- Blogs
- Whitepapers
- Webinars
- Published articles
- Cybersecurity Forums

ProfitStars
A DIVISION OF JACK HENRY

Home Webinars Resources **CONTACT**

Secure Your Institution

Taking steps to remain vigilant and to facilitate a more secure online workplace.

[LEARN MORE](#)

Cybersecurity Resources to Help Secure Your Institution and Protect Account Holders

Today, the separation between our online and offline lives continues to blur. To stay ahead in the battle for cybersecurity, it is critical to take steps to remain vigilant and help facilitate a

Blogs

- Unleashing the Power of GRC**
New insights from FinTalk, featuring Viviana Campesano, Gladiator.
- Your Brand and Your Data are on the Line After a Cyber Attack**
BankBeat's Jim Murez interviews Allen Eaves from Gladiator.
- How Community Banks Can Avoid Being Targets for Cyber Crooks**
By Howard Allen, BAI, and featuring Sebastian Fazzino from Gladiator.
- COVID-19: What are Fraudsters and Money-Launderers Doing in the New Norm?**
New from FinTalk, featuring Rene Perez, JHA.

[READ THE BLOG](#)

Articles

- Community Banks' Continuity Planning D-19**
By Tom Williams, JHA.
- Cybersecurity: An Essential Competency for Credit Unions**
CU Times article featuring Roy Unico interviewing Allen Eaves, Gladiator.

[READ ARTICLE](#)

Webinars

- Crisis Accentuates Need for Proactive Data Security**
CU Times article featuring Roy Unico interviewing Allen Eaves, Gladiator.
- Ransomware Is Alive and Well: 6 Questions You Need to Ask About Your Data Recovery Plans**
By Eric Flick, Centurion (from FinTalk).
- Web Application Cybersecurity: Not Just for Audits Anymore**
By Robert Hudecek, JHA (from FinTalk).
- Remote User VPN Access - How to Manage Through the Pandemic**
Join us for this 30-minute, complimentary, on-demand webinar.

[READ ARTICLE](#) [READ THE BLOG](#) [READ THE BLOG](#) [VIEW WEBINARS](#)

Gladiator™ IT Regulatory Compliance Services



- GRC SaaS Platform
- Virtual Information Security Officer
- InfoSec Asset Based Risk Assessment
- Written Information Security Policy
- Business Continuity Management
- Vendor Management
- Security Education Services
- ***“Unleashing the Power of GRC”*** – Blog
 - <https://discover.jackhenry.com/fintalk/unleashing-the-power-of-grc>
- ***“Security Risk Assessments – A Balance of Risk and Controls”***
 - <https://discover.jackhenry.com/fintalk/security-risk-assessments-a-balance-of-risk-and-controls>



Thank You!