



# NETWORKING IS RELATIVE

A CISO's Perspective In Higher Education

**M** MIAMI UNIVERSITY

## **Imperative Value Of Critical Relationships**

Perspective of an information security office in higher education

## **Recent University CISO Successes**

From around a round table

## **Some Security World Prognostications**

Idle noodling

## **What You Can Do**

# Imperative Value Of Critical Relationships

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OHECC fosters communication between higher education IT professionals across the state:



*“Communicate and share ideas, create state-wide problem solving, and **create ongoing relationships between IT professionals**”*

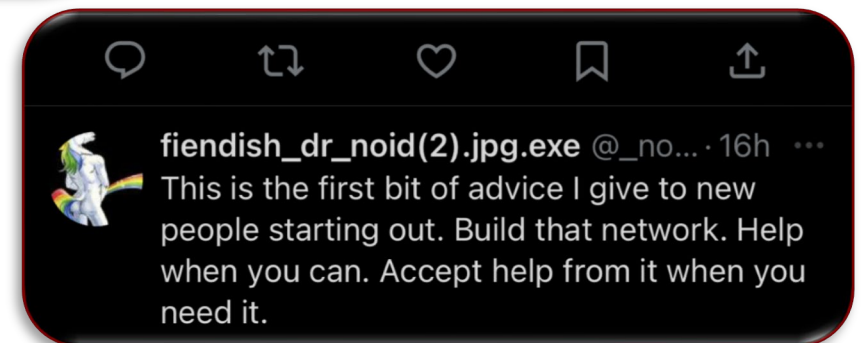
Some say that networking only occurs during the urgent need of a job or professional change

However, **continual networking is foundational to a successful modern career**

A solid and growing network is maybe the strongest multiplier available to mission success and transformation

And it is not hard, may only take up **as little as seconds a day**

# Talk On The Street



3/9/2023



**There is a LOT going on in cybersecurity these days!**

## InfoSec Professional's Responsibilities

## Security operations resilience

## Budget

## Business enablement

## Project delivery lifecycle

# Security Architecture

## Compliance and Audit

## Legal and human resources

## Risk management

## Identity management

## Governance

## Selling InfoSec

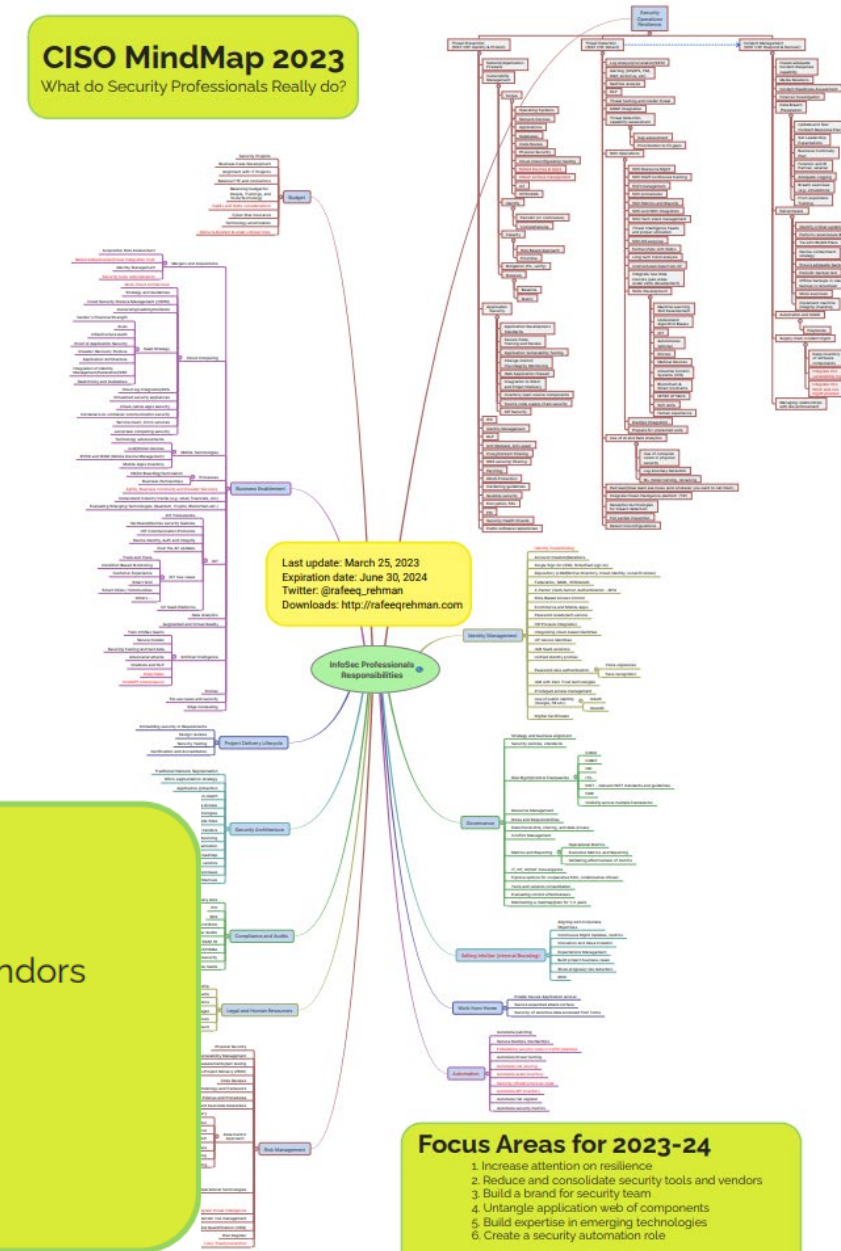
## Work from home

## Automation

## Focus Areas for 2023-24

1. Increase attention on resilience
2. Reduce and consolidate security tools and vendors
3. Build a brand for security team
4. Untangle application web of components
5. Build expertise in emerging technologies
6. Create a security automation role

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# Key to Networking and Relationships

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## What does it mean to network or have a relationship?



**No BS needed**

Meet or get introduced to somebody, anybody

Listen and make a connection, however slight

Have an attitude of service. Offer without expectation of return

Make a conscious effort to get and keep their contact information

Follow up same day or soon after

Setup a periodic electronic calendar reminder

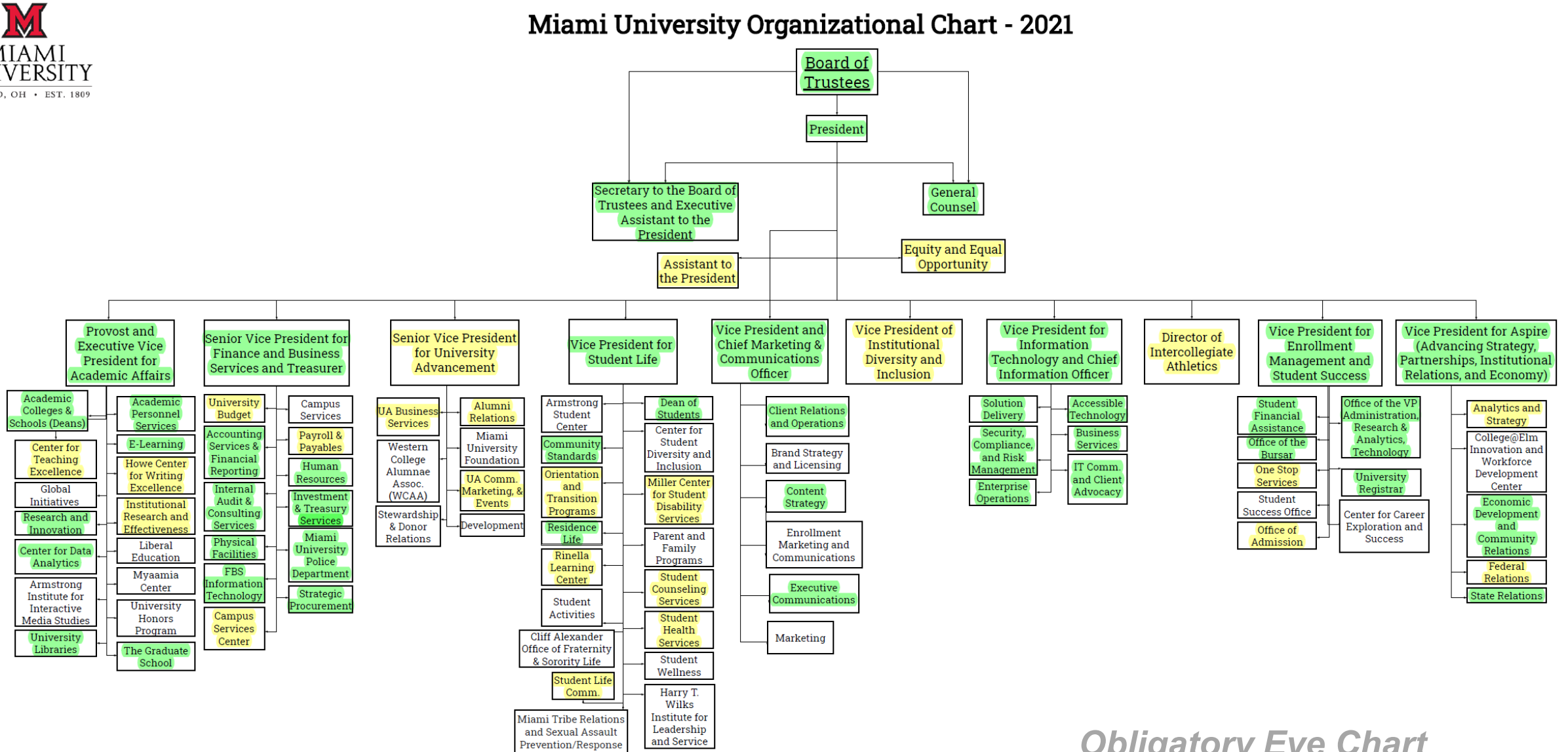
Keep it fresh

Stay in touch, catch up



# Critical Internal Relationships

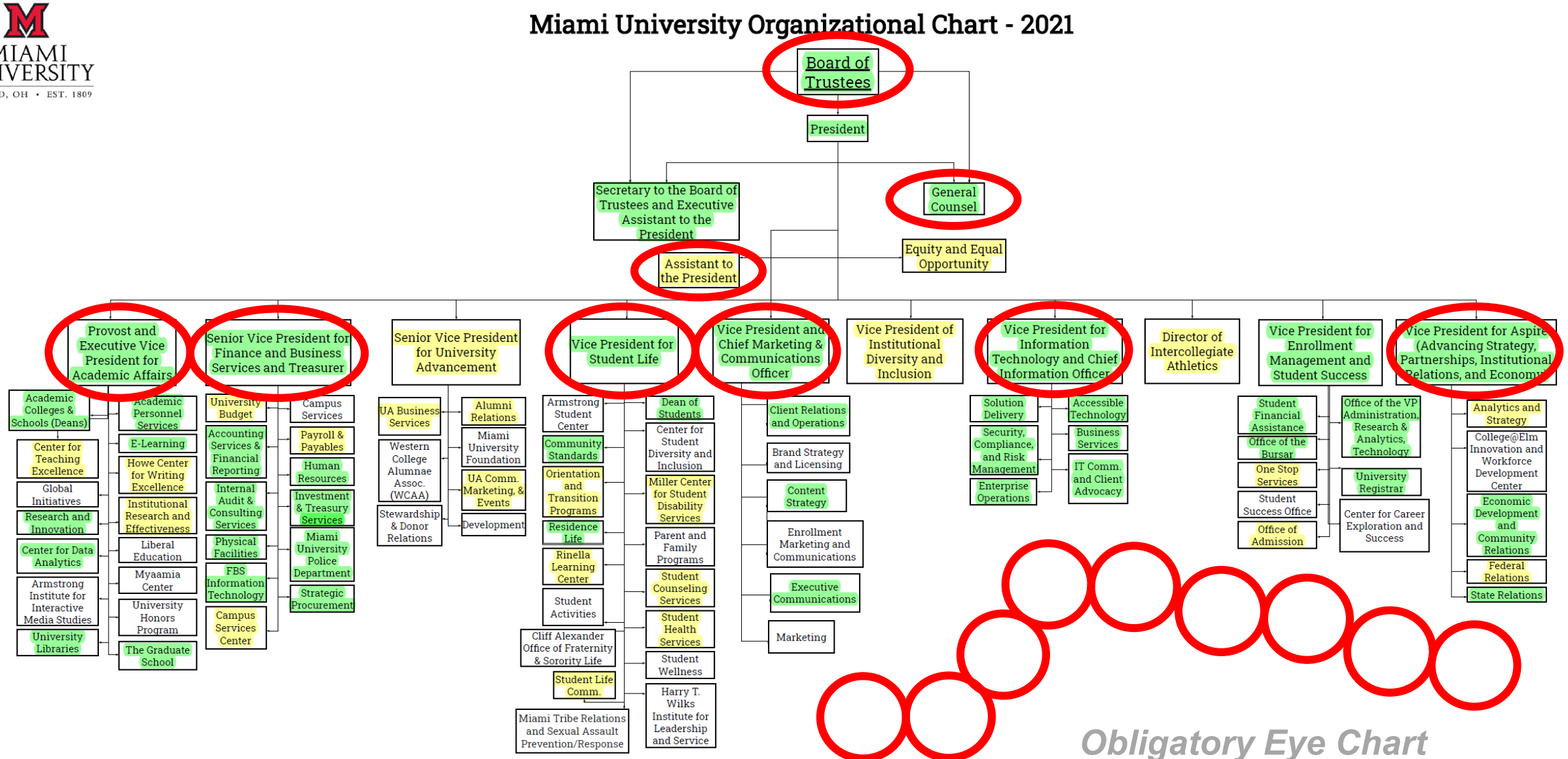
## Miami University Organizational Chart - 2021



*Obligatory Eye Chart*

# Critical Internal Relationships

Miami University Organizational Chart - 2021



Obligatory Eye Chart

# Critical Internal Relationships

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## **Board of Trustees**

Proceedings, cybersecurity strategy, big budget requests

## **President**

Executive leadership support, sponsorship, escalation, awareness

## **Executive Assistant to the President**

Secretary to Board of Trustees, link to President's cabinet

## **General Counsel**

Compliance, records retention, contracts, investigations, FERPA+

## **Office of Equity and Equal Opportunity**

Harassment and discrimination investigations, hiring flow





# Critical Internal Relationships

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## **Provost and Academic Affairs**

ADoTs, Deans, Research, Libraries, Academic Personnel, E-Learning

## **Finance and Business Services and Treasurer**

Internal Audit, Physical Facilities, FBS IT, HR, Treasury, Police, Procurement

## **University Advancement**

University Foundation, Development

## **Student Life**

Community Standards, Academic Integrity, Residence Life, Student Health

## **University Communications and Marketing**

Executive Communications



# Critical Internal Relationships

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## **Institutional Diversity and Inclusion**

DEI education and involvement

## **Intercollegiate Athletics**

Compliance, name, image and likeness (NIL), student health data

## **CIO and Information Technology**

Strategy, budget, personnel, business services, development, infrastructure

## **Enrollment Management and Student Success**

Registrar, One stop services

## **Institutional and Governmental Relations**

Federal relations, State relations, legislation advocacy



# Critical Internal Relationships

## Information Security Team

Grew from nine to over 70 members

## Campus Compliance Committee

Oversight of effectiveness of compliance program activities

## University Senate Information Technology Policy Committee

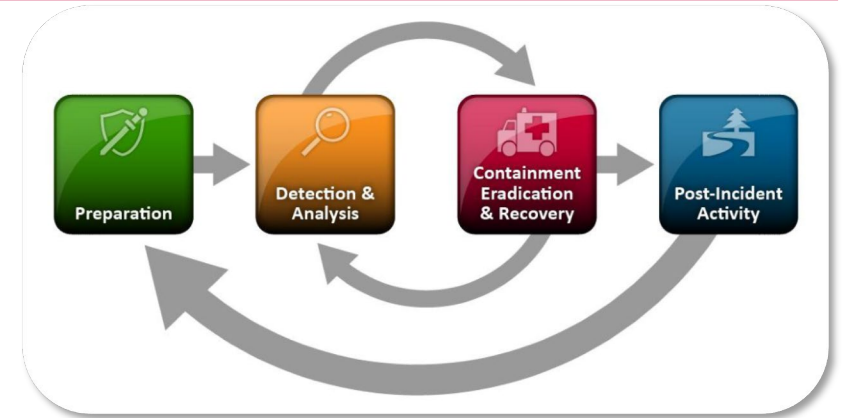
Monitor and review information technology policies and procedures

## Safe Return To Campus Committee

Broadly representative committee advising the president and cabinet

## Institutional Response Team (IRT)

A task force representing a broad range of offices and expertise on campus



# Critical External Relationships

## My Definition

A relation is a set of pairs of input and output values.

## Example

$\{(4,7), (3,2), (0,0), (-1,-4)\}$

Input x	Output y
0	1
-2	4
3	7

## Characteristics

There are multiple ways to represent a relation:

- ordered pairs
- input/output table
- points on a coordinate plane
- mapping diagram
- equation
- words (sentence)

Vocabulary word:

Relation

Non-Example

4 ← (constant)

x  
↑  
variable

7x ← (expression)

**We can improve our relationships with others by leaps and bounds if we become encouragers instead of critics.**

*Joyce Meyer*



# Critical External Relationships

## Law Enforcement

Local police departments, FBI, CISA



## Statewide CISOs

Fourteen public higher education institutions

## Collegial ISOs and IT

U Toronto, Harvard, UW-M, Northwestern, the other UCs (UCB, UCSD, UCR, etc.)

**EDUCAUSE**

HEISC community group, CMMC Toolkit workshop, CPPC program

**security current**

**Cybersecurity  
Collaboration  
Forum**

CISO connectors, consortiums, reports, articles, C100 (NFL, Microsoft, Pepsi)



# Critical External Relationships

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## Former Colleagues and Mentorships

Inside and outside the cybersecurity world, accountability meetings

## Threat Hunters of the World

Experts with the mind of the attacker

## Vendors Are Major Players, Can Be Partners

Cisco, Palo Alto, Acunetix, Crowdstrike, Optiv, Moran Technology

Choice &  
Accountability

## Banks

Keep the banks happy,



## Training Consultants

Phishing simulation, OWASP Top Ten developer training



# The 'So What' of Networking and Relationships

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**Why did I share all of this?**

Knowing people allows you to help them

Knowing people allows them to help you

When we help each other that is a win for the mission

Mission success is a win for the organization

**And job satisfaction is job one!**



Sharing is caring



*Obligatory Animal Photo*

# Recent CISO Successes

## Around a Round Table of Ohio Higher Ed CISOs



- Improved **Board of Trustees relationship** and support, **Duo to Azure MFA migration**, performed **multiple tabletop exercises**, created five additional standards
- Completed **2FA for students**, security training via LMS project
- Partnership and relationship with **Research department**, and **President's support** of IT and information security
- **EDR buy in and support**. ~70K devices using Crowdstrike. **Awareness and training program**. For example, gain points and get sweatshirts or contribute to charities
- Very successful **transition to remote work** with VPN and other processes, and now **using HECVAT** for assessments
- Getting the **information security team up and running**, MFA, ransomware playbooks
- Went from eight modes of **authentication** down to two, **EDR out** to 8K endpoints
- Implemented **phishing simulation training**, an **IAM program**, and **EDR installed**

# Some Information Security World Prognostications

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**Idle Noodling Question: What do you think the security world will look like in the next 3-5 years?** –Helen Patton, LinkedIn Thread

- **Security will be taken more seriously** by the business and end users.
- I think we are **stuck in a rut of misconfigurations and ransomware** for a bit.
- My hope is **business leaders accept that the risk is theirs**, not their security or IT department's.
- Cybersecurity **insurance to have a greater influence** on checkbox security efforts.
- More **failures due to complexities** and more attacks that bypass controls due to complexities.
- Cloud-specific problems will arise where **cloud vendors might start to be a part of the problem**.
- We will **eventually need less awareness and intervention by our users or customers**. For example, we demand our users to be experts in spotting phishing emails, remembering hard passwords, and vulnerability management. My cloudy crystal balls presents a world where technology and process takes that out of our user's hands. Things like DMARC, EDR/EDX, next generation integrations, and who knows what else.



# CISO Benefits to Higher Education

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## What can a CISO do?

- Maintain emphasis on governance, risk and compliance
- **Partner with faculty, staff and students**
- Demystify the threats, assess the attack surface, draw attention to the risk posture
- Be an advocate for CIO, educators and staff
- **Balance between risk management and IT enterprise**

## Ensure:

- **Collaboration and stakeholder involvement**
- Involvement in university strategic planning
- Compliance becomes the habit, not the emergency





# More on Building a Human Connection

**It is important to get to know your connections**

**Be intentional**

**Be authentic**

**Be vulnerable**

**Be mindful**

**Be curious**

**Be nonjudgmental**

*Huge thanks to President Troy Paino, University of Mary Washington, April 2023*



# What Can You Do Tomorrow?

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## Outreach

- ☐ Reach out to one new person
- ☐ Schedule a recurring accountability meeting with someone potentially valuable to you or valuable to them
- ☐ Email a former colleague just to say hello and see how they are doing
- ☐ Figure out YOUR best way to track your network

## Bonus

- ☐ Tell one person weekly how great it is to know them and to work with them!
- ☐ And engage your feels.





# Questions?



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