

# Northeast Collegiate Cyber Defense League (NECCDL)



# Welcome

- Outline
  - League
  - NECCDC 2024
  - Q&A
- Please hold questions until Q&A

Loopback | Last Season's NECCDC 1st Place at Nationals

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Northeastern University



# Mission

NECCDL exists to reduce administrative burden required to organize, host and execute the annual NECCDC competition. These repetitive administrative burdens that would clearly benefit from centralization and year-to-year continuity are our charge.

The Competition Director is our client. They remain responsible for the planning and execution of the competition and for appointing competition volunteers.

To date, we have supported:

- UMaine
- RIT
- Champlain College
- UMass Lowell

# Who?

- President: Devin Paden (Champlain\*)
- VP: Joe Acampora (Pace University)
- Secretary + Co-Sponsorship Coord.: Joe Eastman (Champlain)
- Social Media + Co-Sponsorship Coord.: Damira Pon (UAlbany)
- Lead Judge: Matt Heath VanHorn (Embry-Riddle)
- Website: Joseph Patenaude (UMaine\*)
- New Coach/Team Orientation: David Murray (UBuffalo)

# League Membership Fee

- Provides League Membership for one NECCDC season
- Costs:
  - \$100 for new teams
  - \$250 for returning teams
- **League Membership Signup at [neccd.org](https://neccd.org) is open**
- <https://neccd.org/neccd/join/>
  - Registration fee can be paid via PayPal (accepts cards)

# Coach Responsibilities for the League

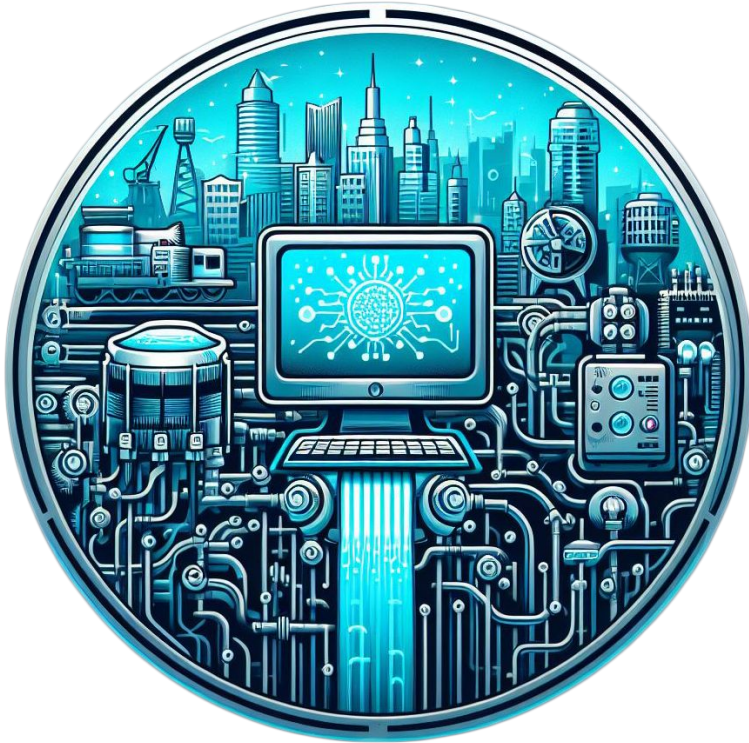
- Primary point of contact for League to send announcements
  - Responsible for relaying relevant parts to competitors in a timely manner
  - Communicate any inquiries from competitors to the League
- Be aware and knowledgeable of competition rules
- Represent Academic Institution as a League delegate in voting decisions
- If a team should pass qualifying round, attend Regional event in **March**
- Serve as emergency contact during competitions

# Coach Responsibilities for the League

- Complete League membership signup & provide payment for membership fee
- Coordinate local White Team moderators for Qualifier, providing contact information to League by set deadline
- Compile / submit provided team roster form & other necessary documentation by set deadlines



# NECCDC 2024: Overview



CRITICAL CONTROLS: PROTECTING OUR INFRASTRUCTURE



*Hosted by:*

**PACE**  
UNIVERSITY

# NECCDC 2024: Theme

## Critical Controls, Protecting our Infrastructure

Critical infrastructure, which includes power grids, water systems, transport networks, and healthcare facilities, is pivotal to our nation's operation. Cyberattacks on these systems can not only disrupt daily life and endanger national security but also have profound economic and social implications. These infrastructures often blend **IT** with **OT** to boost production and meet demands, presenting a unique cybersecurity challenge. While defending the established **IT** domain is already demanding, protecting the less-prepared **OT** environment intensifies the task, with both tangible and intangible damages at stake.

# NECCDC 2024: Team Leads

- NECCDC 2024 Director
  - Joe Acampora
- White Team Co-Captains
  - Joe Eastman, Damira Pon, Matt Heath VanHorn
- Black Team Captain
  - Andrew Iadevaia
- Red Team Captain
  - Dan Becker

# NECCDC 2024: Black Team Brief

- Scenario - Private energy company managing critical infrastructure
- Identity Management
  - Active Directory
  - RHEL IDM/FreeIPA
  - Cloud resource management
- Containerization
  - Kubernetes
  - Docker
- Additional Technologies
  - Ansible
  - Secrets/Credential Management
  - SIEM (Wazuh)

# NECCDC 2024: High-level Architecture

## NECCDC 2024 - Qualifiers

### AWS Services

IAM  
CloudTrail  
S3  
EC2  
VPC (Security)

### Underlying Operating Systems

Windows Server  
Ubuntu Linux  
Debian Linux  
Amazon Linux  
Red Hat Enterprise Linux  
macOS

### General Services

Windows DNS Server  
Windows File and Storage Services  
Windows Remote Desktop Services  
Windows Server Update Services  
Kubernetes  
Docker  
Containerd  
Hashicorp Vault

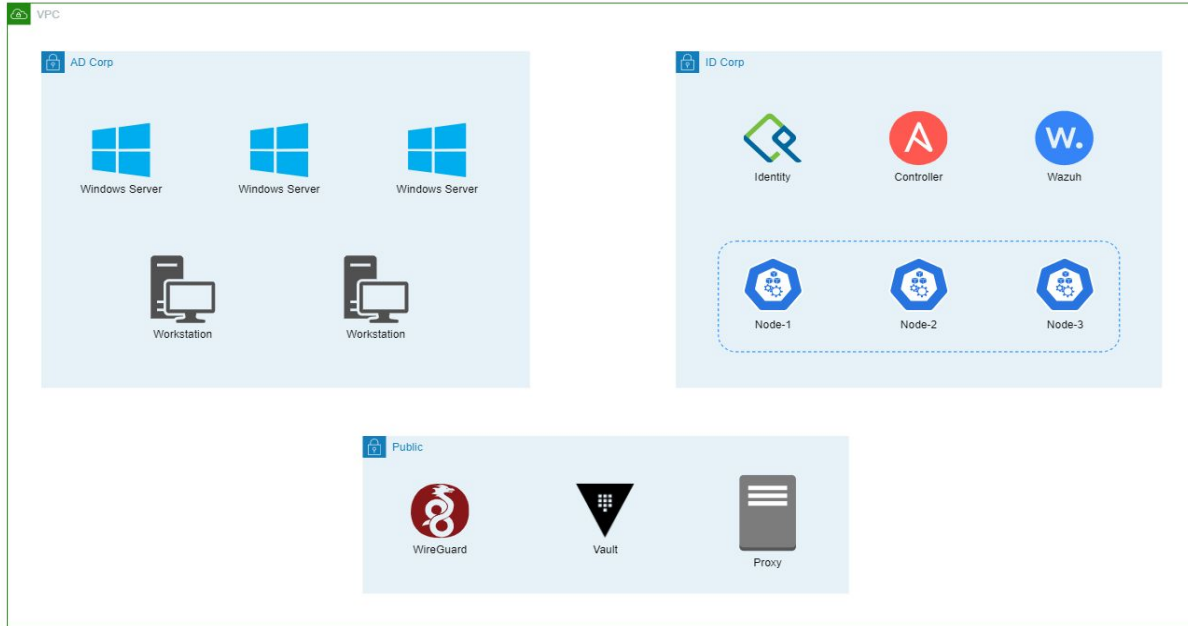
Nginx  
HAProxy  
Apache  
Wazuh  
Ansible

### Identity Services

Active Directory Domain Services  
FreeIPA  
Red Hat Identity Management  
Active Directory Certificate Services

### Kubernetes Services

GitLab  
PostgresSQL



# Key Dates for NECCDC 2024 Season

- Signup to Join the League Open: <https://neccd.org/neccd/join>
- Roster Submission Open: <https://www.surveymonkey.com/r/2024CCDC>
  - League Member Institutions will be provided information on Team Roster Submission **through** **Nationals**
- January 19, 2024: NECCDC 2024 Roster Submission Deadline
  - The earlier team's are registered, the sooner they have access to resources
- January 27, 2024: Qualifier Beta Test
- February 03, 2024: NECCDC 2024 Qualifier
- TBD February 2024: Quals Outbrief & Regional Overview
- March 23-25, 2024: NECCDC 2024 Regional Onsite in/near NYC
  - 10 Teams who qualify will compete for who will advance to Nationals
  - League Member Institution Delegates (Coaches) will meet to discuss future NECCDL topics

# NECCDC Resources for League Members

- New or returning team orientation
  - Focused on new team orientation for Qualifier prep
  - Conducted by UBuffalo Coach: Dave Murray
  - Offered to registered League members
  - Reach out to [orientation@neccd.org](mailto:orientation@neccd.org) if interested

# Q&A