

Northeast Collegiate Cyber Defense League (NECCDL)



Welcome

- Outline
 - League
 - NECCDC 2023
 - Q&A
- Please hold questions until Q&A

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

Dennis G, from Northeastern University



Mission

NECCDL exists to reduce the 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 customer. They remain responsible for the planning and execution of the competition and for appointing competition volunteers.

To date, we have supported:

- UMaine
- RIT
- Champlain

Who?

- President: Devin Paden (Champlain)
- VP: Sashank Narain (UMass Lowell)
- Secretary + Co-Sponsorship Coord.: Joe Eastman (Champlain)
- Sponsorship & Co-Social Media 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 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 event, providing contact information for judges to League by set deadline
- Compile / submit provided team roster form & other necessary documentation) by set deadlines

NECCDC 2023: Overview



Hosted by:

NECCDC 2023: Theme

Resilient Cloud Infrastructures

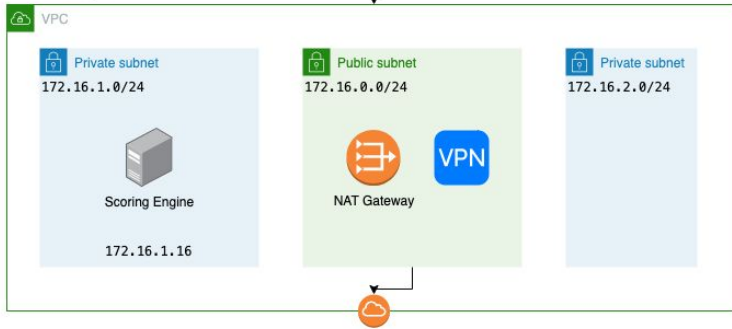
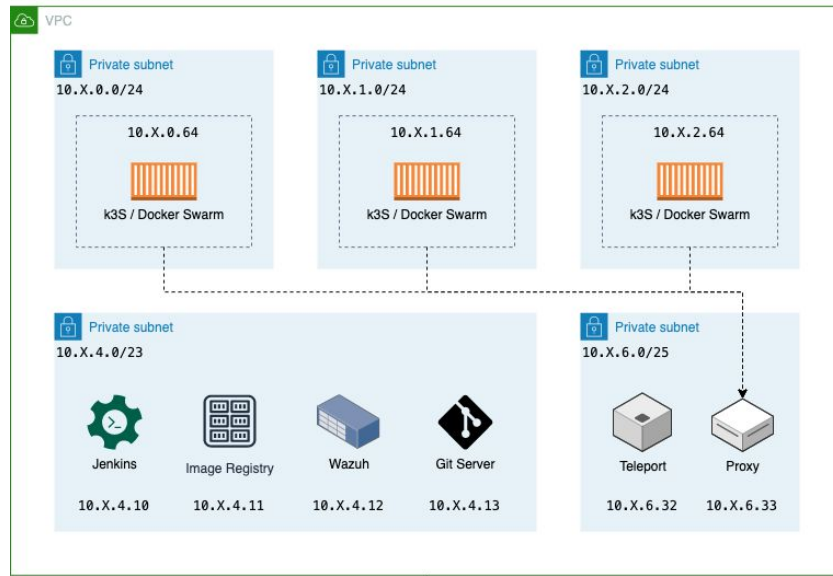
Modern **cloud** providers, **containerization**, and **orchestration** technologies have enabled organizations to massively **scale** their infrastructures. At the same time, the presence of **availability zones** has enabled organizations to guarantee **high availability** (> 99.99%) of critical services. These massively scalable, highly available and public infrastructures present unique security challenges that require innovative security solutions. This year's qualifier and regional competition will focus on the multitude of **techniques that ensure enterprise network uptime, security, and flexibility** – when operating at massive scale.

NECCDC 2023: Team Leads

- NECCDC 2023 Director: Sashank Narain
- White Team Co-Captains: Joe Eastman, Damira Pon, Matt Heath VanHorn
- Black Team Captain: Fabrizio D'Angelo
- Red Team Captain: Dan Becker

NECCDC 2023: Black Team Brief

- Scenario - Medium-sized company migrating to cloud infrastructure
- Cloud Technologies
 - Cloud-first Infrastructure (e.g., AWS)
 - VPC networks
 - Cloud resource management
- Resiliency
 - Kubernetes/Docker Swarm
 - Availability Zones (e.g., AWS)
 - Distributed File Systems
 - Vulnerability management
- Additional Technologies
 - CI/CD pipelines
 - Endpoint security
 - Identity management



NECCDC 2023: High-level Architecture

Key Dates for NECCDC 2023 Season

- Signup to Join the League Open: <https://neccdl.org/neccdl/join>
- Roster Submission Open: <https://www.surveymonkey.com/r/2023CCDC>
 - League Member Institutions will be provided information on Team Roster Submission
 - **Through Nationals**
- January 20, 2023: NECCDC 2023 Roster Submission Deadline
 - The earlier team's are registered, the sooner they have access to resources
- January 21, 2023: Qualifier Access Test
- January 28, 2023: NECCDC 2023 Qualifier
- TBD February 2023: Quals Outbrief & Regional Overview
- March 10 - 12, 2023: NECCDC 2023 Onsite in Lowell, MA
 - 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 if interested

Q&A