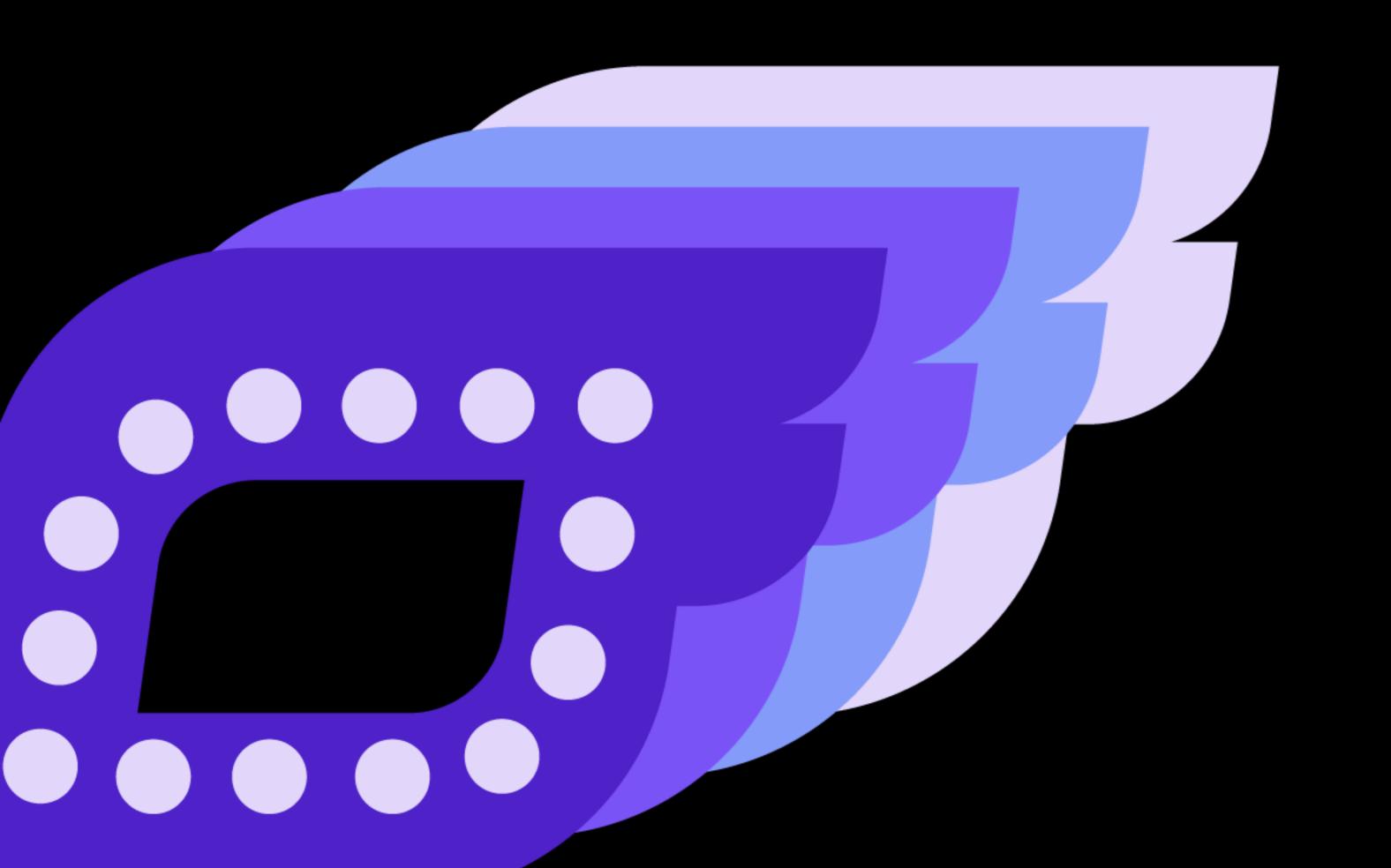


HYBRID IDENTITY PROTECTION

conf24







# Beyond Tier0 The Forest Druid Journey

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## Part

# The beginning







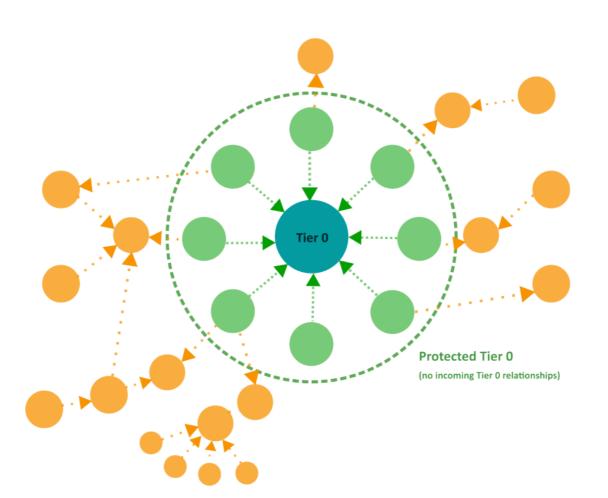




## August 2022 – Mission Statement

#### **Goal – Identify and Protect Tier 0**

- Objective 1 Identify all attack paths into "known" Tier 0
- Objective 2 Classify paths into Tier 0 as "legitimate" or "illegitimate"
- Objective 3 Define a "Privilege-defined Perimeter" of actual Tier 0 for monitoring



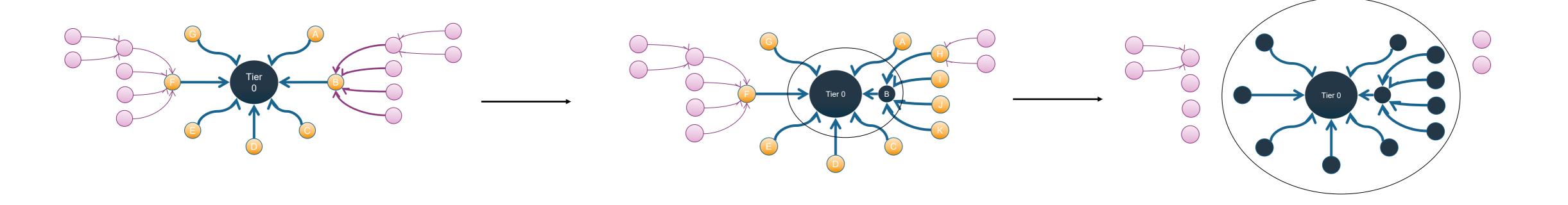


1. Mapping attack paths



## The Forest Druid hypotheses

- Risk boundaries are defined by an "Identity Perimeter"
- Given enough time and activity, all environments experience "access creep"
- The existing red-team methods of attack path analysis are insufficient



2. Inside-out Analysis ... discovering the perimeter

3. Protecting the identity-defined perimeter

# Part II The Journey







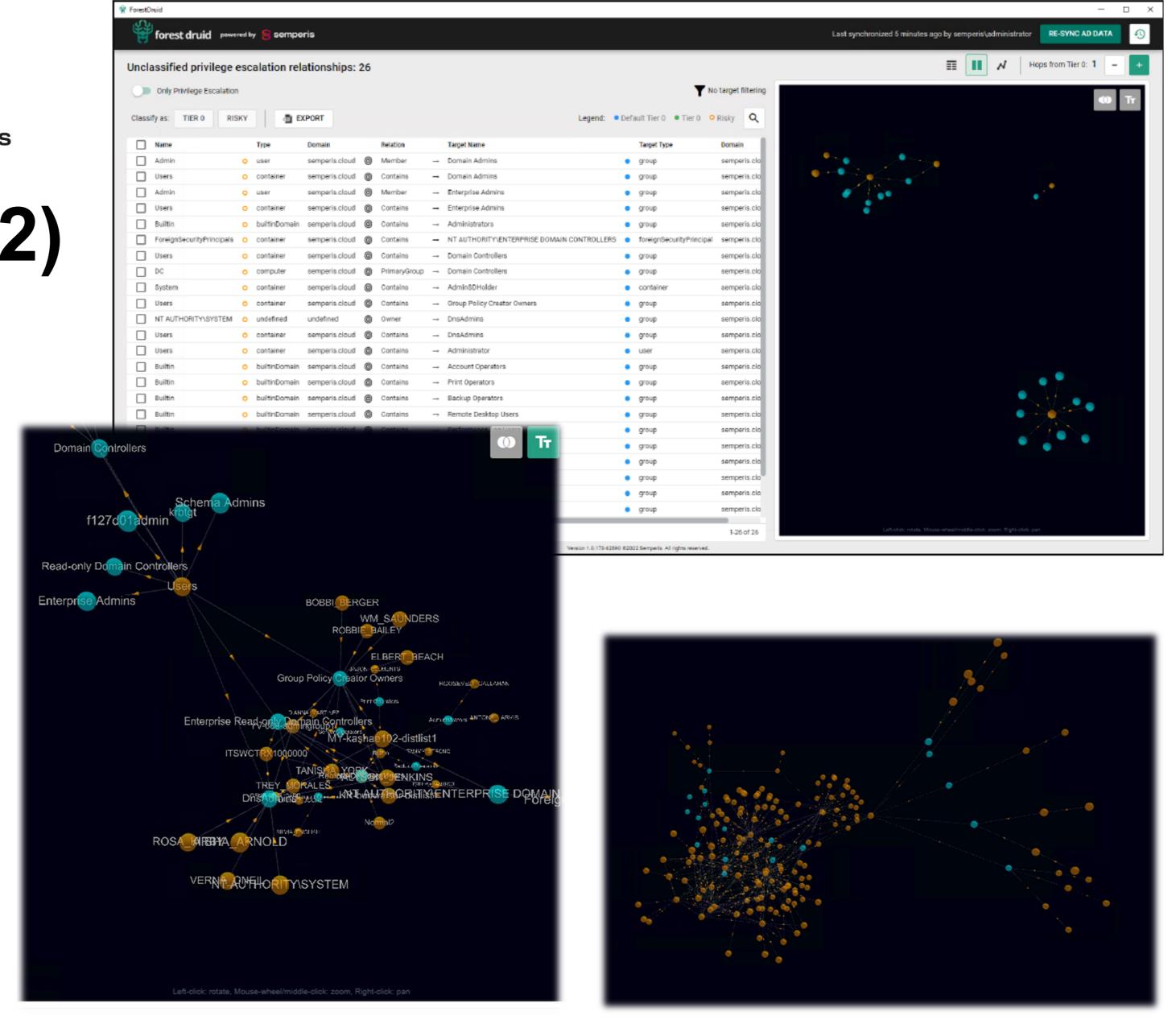




## Forest Druid v1 (12/22)

- Single-screen "galaxy view"
- Classify and list

- Prioritization is critical (need a metric)
- Must have a search / filter
- 3-D can get ... messy



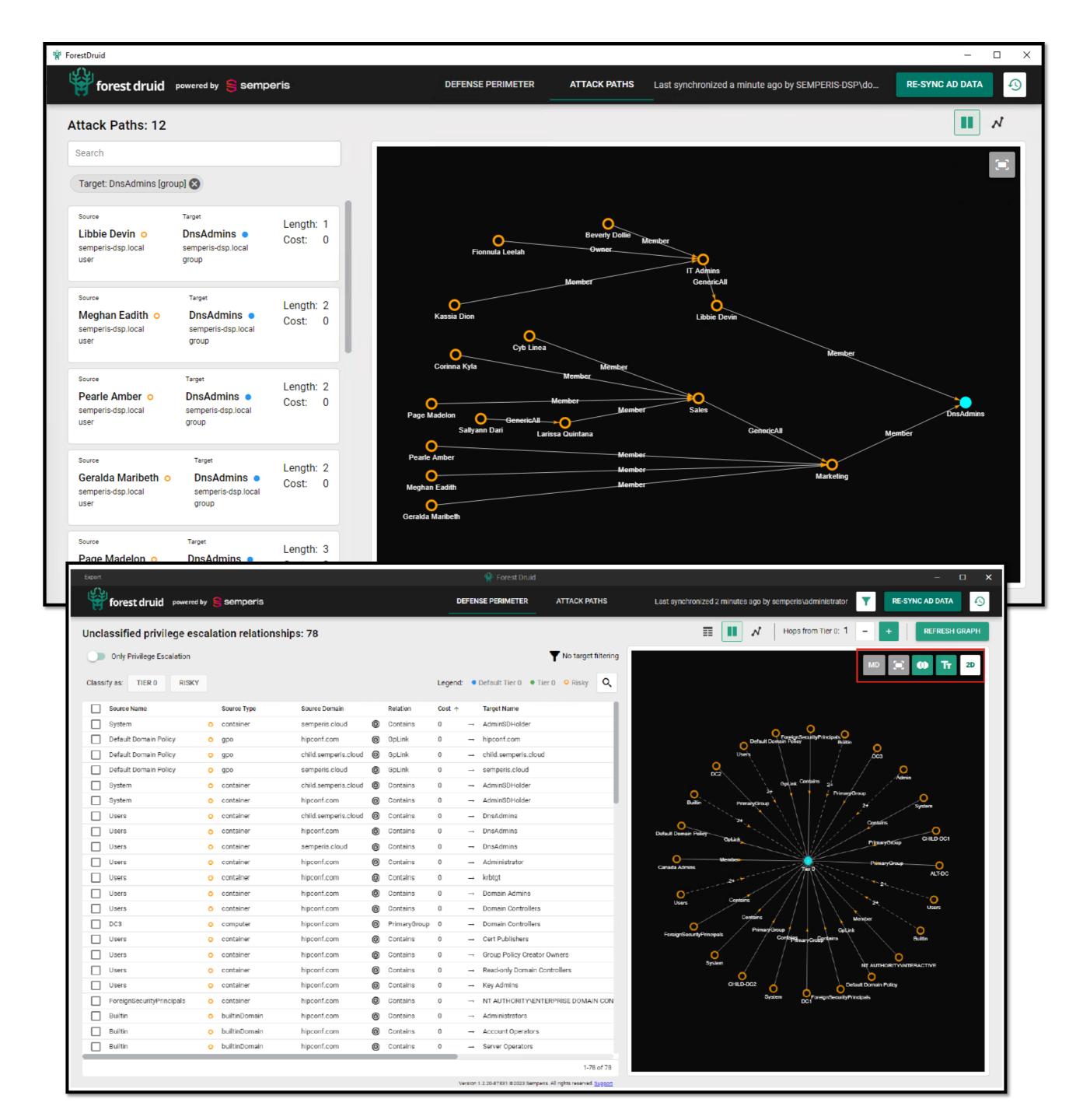




## Forest Druid v1.2 (4/23)

- 2-D View
- Attack Path Analysis UI
- Attack Cost (patented...)
  - NOT RISK

- Need more exploration tools
- Must have a search / filter
- Time to move beyond AD ...



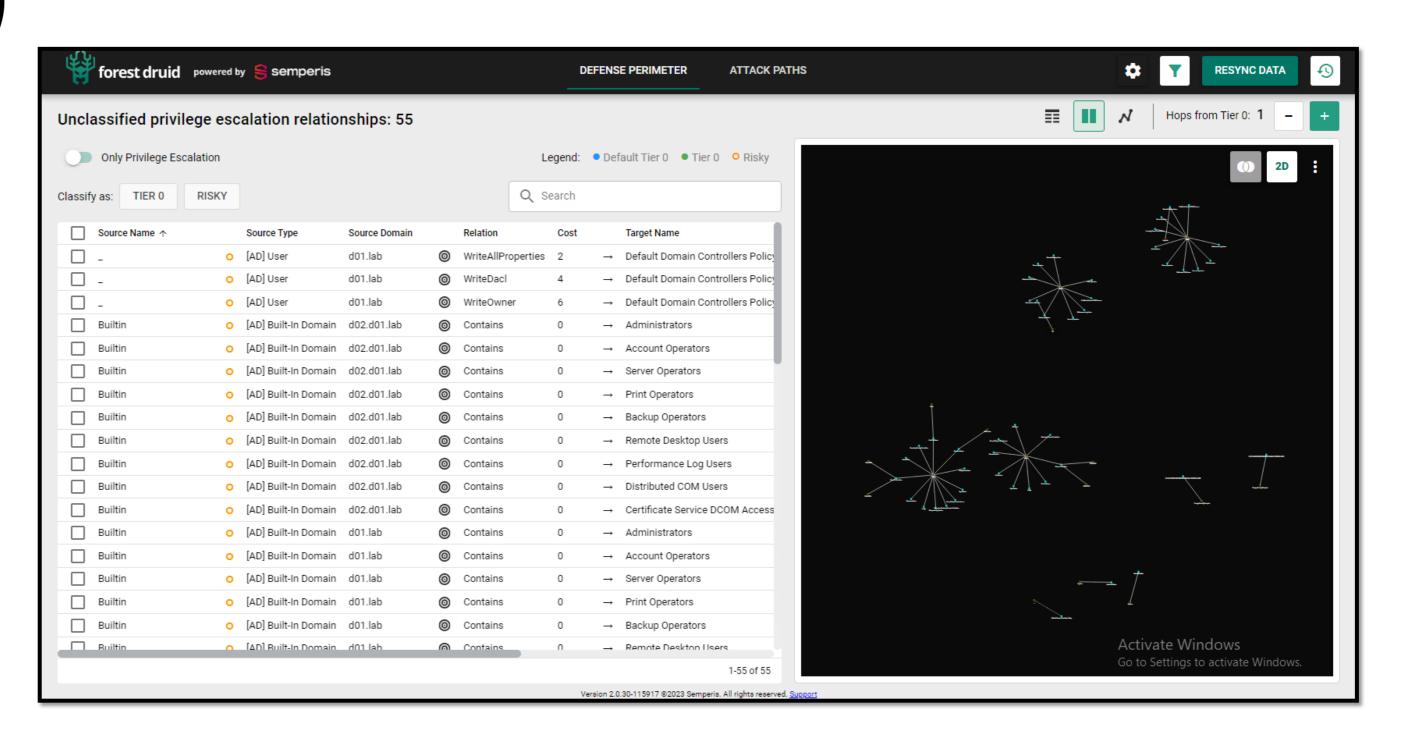




## Forest Druid v2 (10/23)

- Entra ID Control Plane
- Advanced Graph Controls
- Data Filters

- The UI is still clunky
- We need to move beyond the predefined perimeters ...



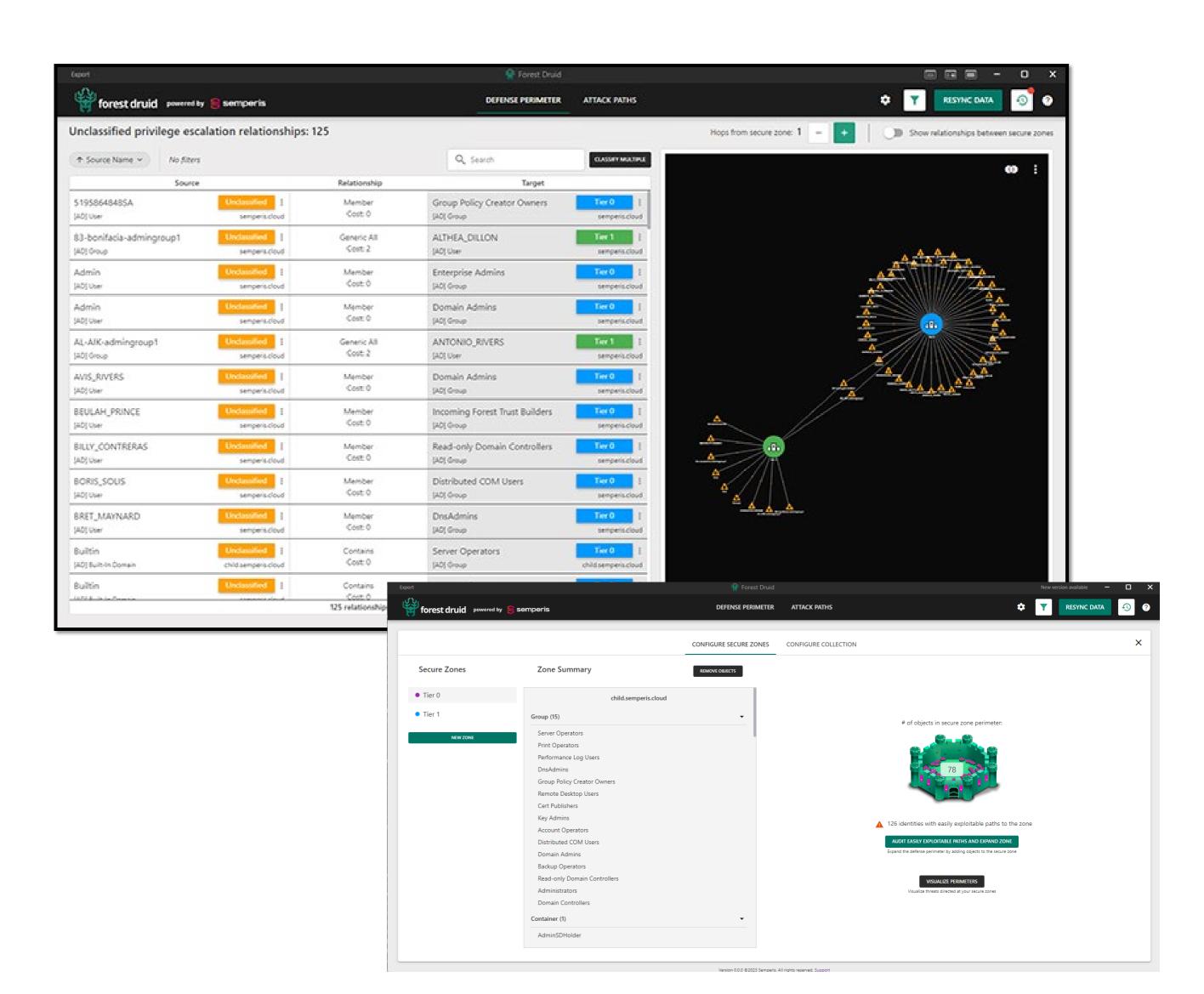




## Forest Druid v3 (4/24)

- Custom zones
- UI overhaul

- Need "traversal" functionality
- Perimeters represent risk
- We need to scale ...



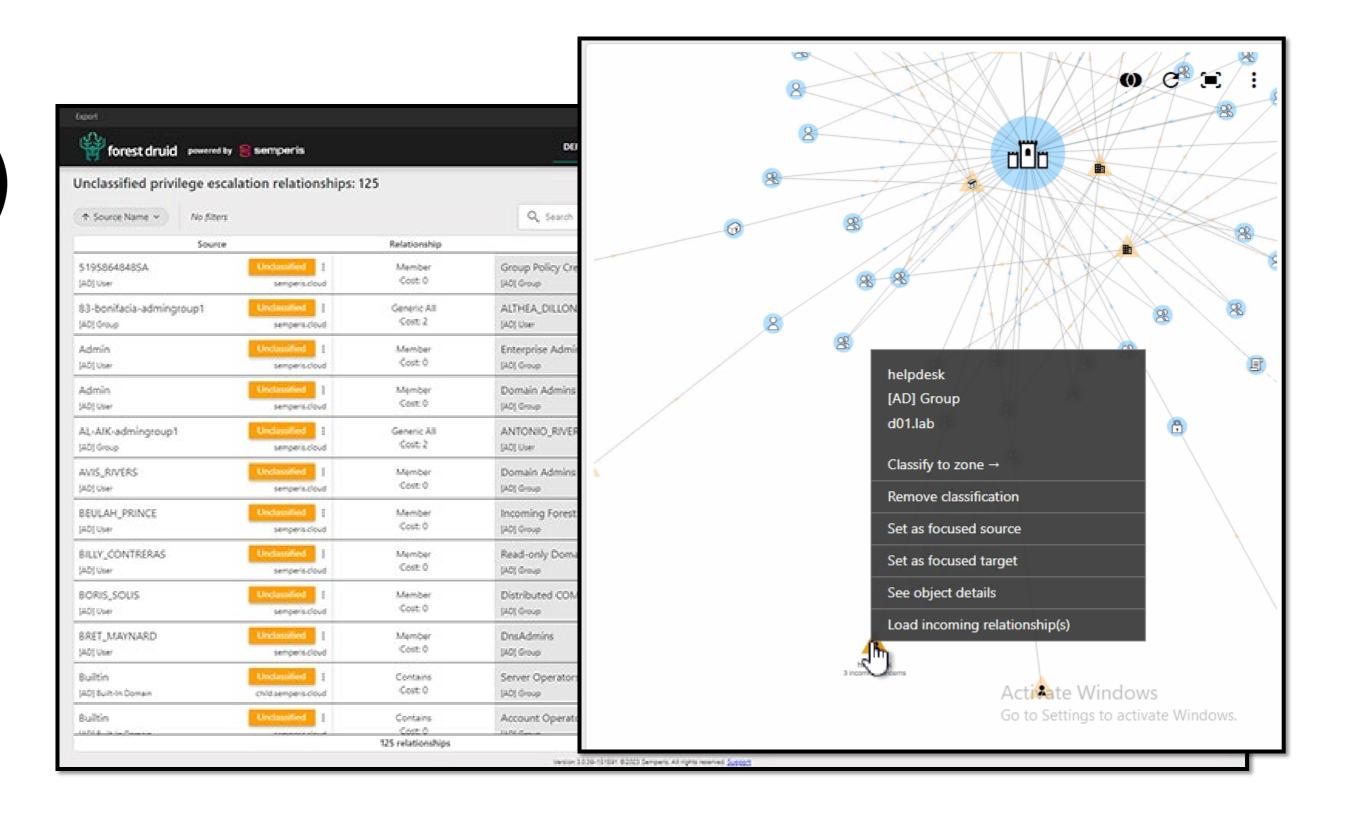




## Forest Druid v3.1 (7/24)

- Graph traversal
- Scale (2 million objects, 4 million relationships)

- Perimeters represent risk
- We need to scale ...







## Where we are today...

- After 2 years of Forest Druid...
  - Hundreds of downloads
  - Dozens of user sessions
  - Massive scale (2 million nodes, 4 million edges)
- Major lessons learned
  - There is <u>always</u> privilege creep
  - Attack path analysis is an ongoing effort
  - There is more to identity risk than just Tier 0 ....

## Part III

The Identity Defined Perimeter



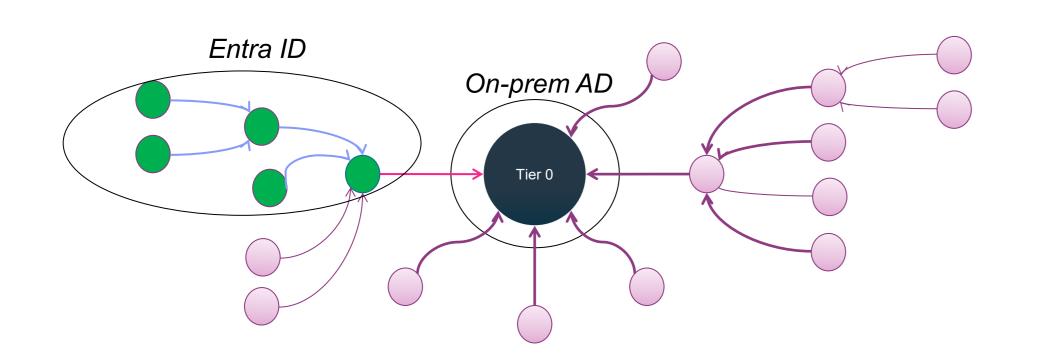


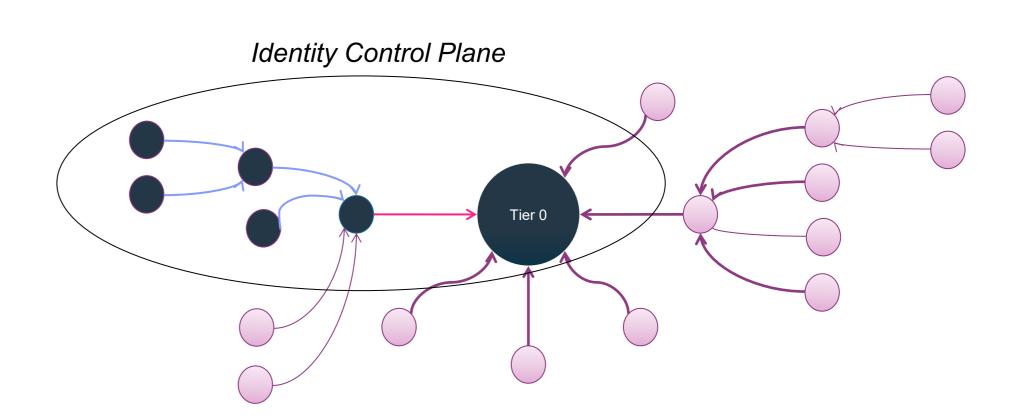






## What are Security Zones?



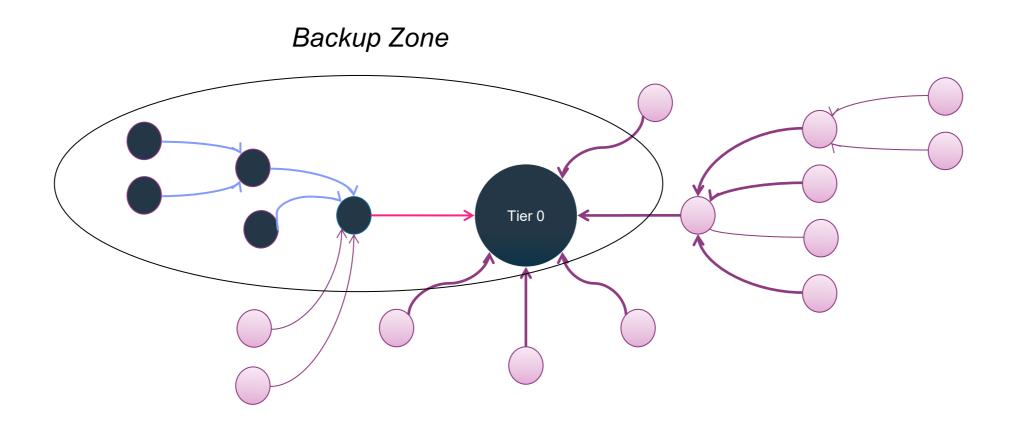


Use Case 1 - Identity Control Plane ... Together but separate





## What are Security Zones?

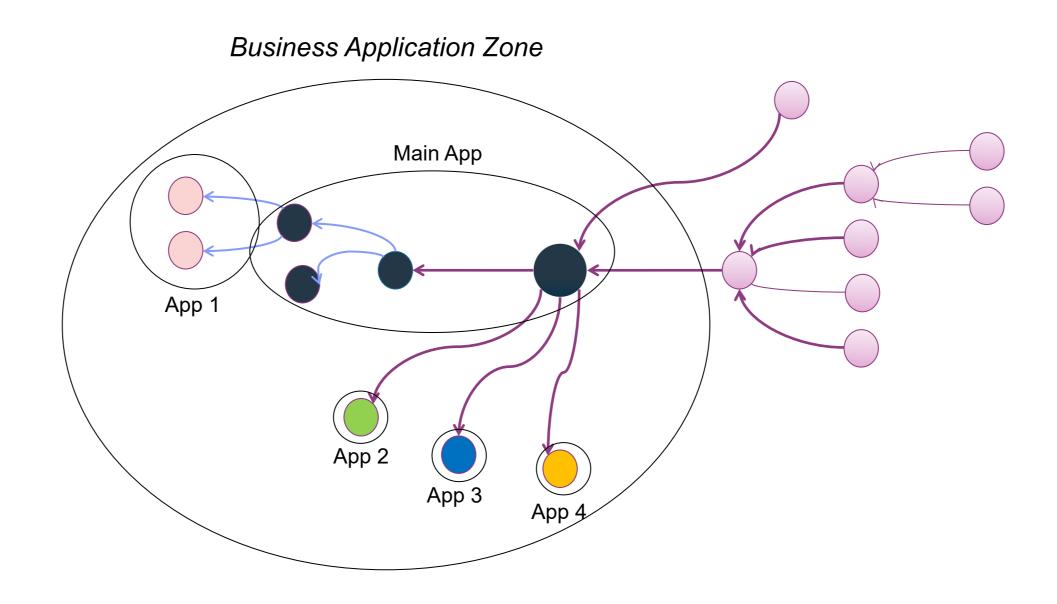


Use Case 2 – IT Infrastructure Resilience





## What are Security Zones?



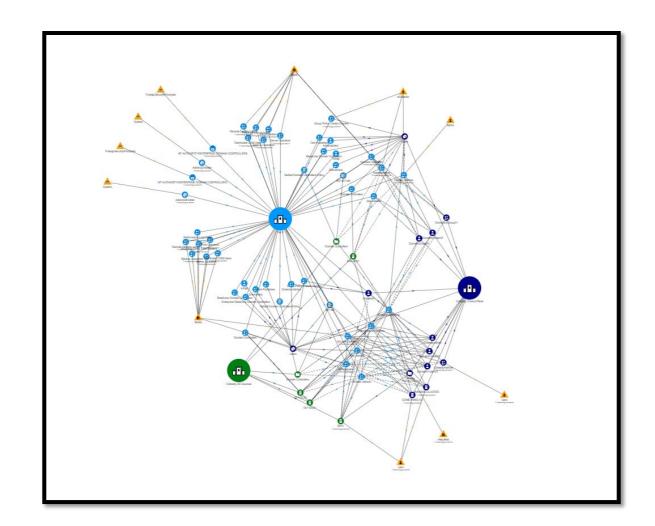
Use Case 3 – Cloud Applications

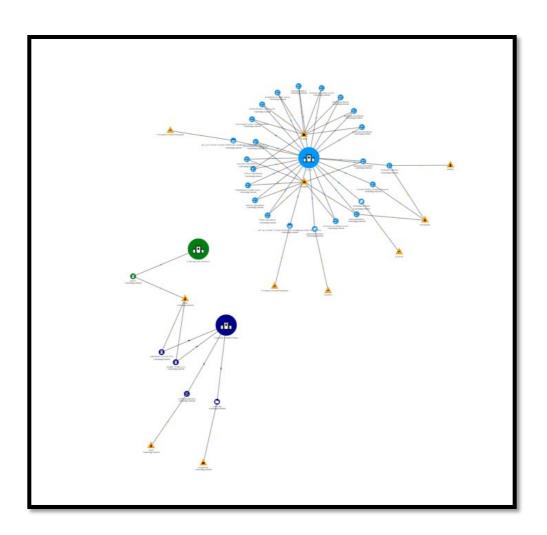




### So what does that look like?

- Version 3.2 ... the Forest Druid SDK
- Add-on security zones import "privilege lexicons" to map out perimeters of any application, infrastructure, etc..
- Cohesity demo...





## Part III

## The (near) Future



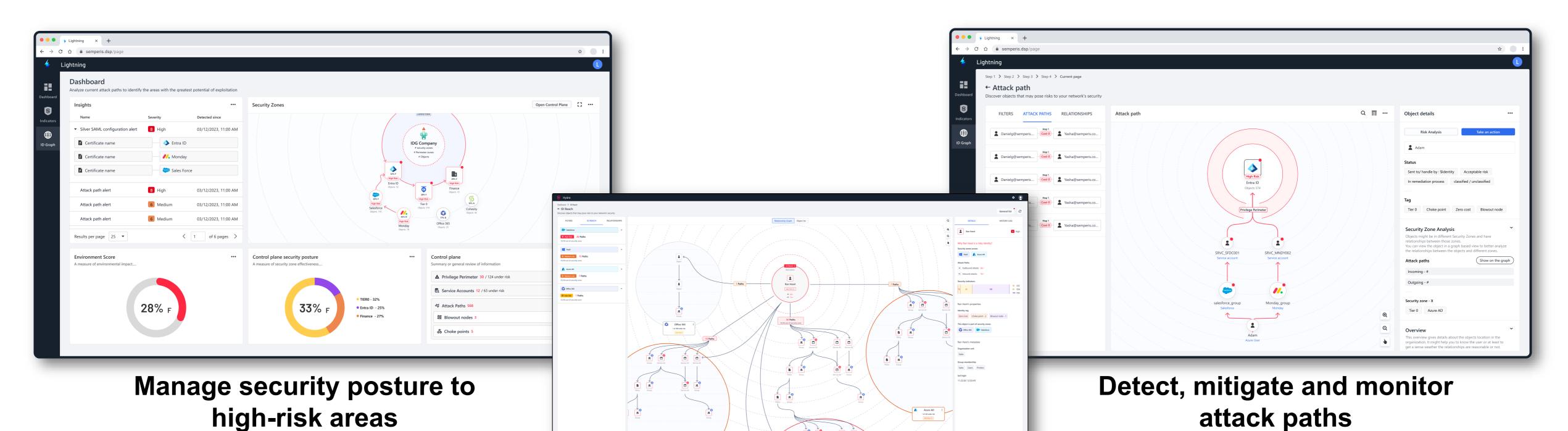








## Welcome to Lightning



Identify, remediate and manage risky identities – human and non-human (service accounts)



## Thank You!



