



# 2023 INTERNET2 TECHNOLOGY exchange

**Eduroam logs:**  
Demo of Grafana with IAM

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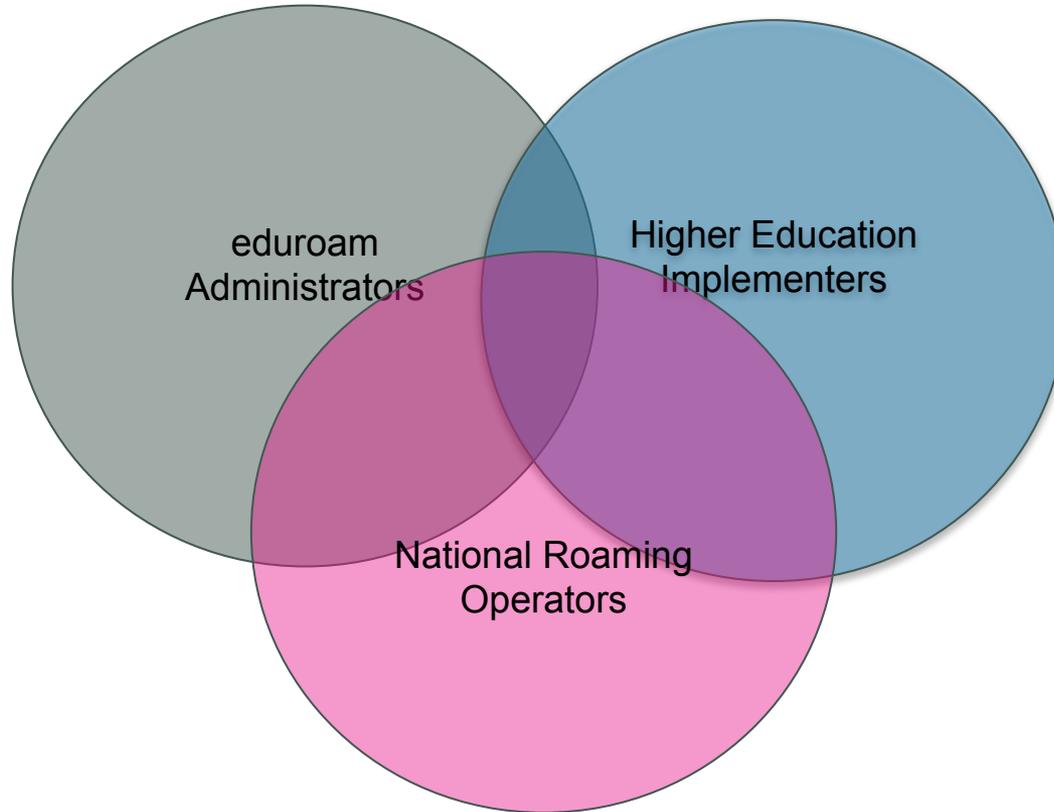
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## Why do we need this and who it benefits

- eduroam Administrators (Federation Manager users)
  - eduroam Administrators gain secure access to national infrastructure log data
- Trusted Access Platform (TAP) Implementers
  - Community members gain access to open source solutions
- Federation/National Roaming Operators
  - Self-service troubleshooting = independent users

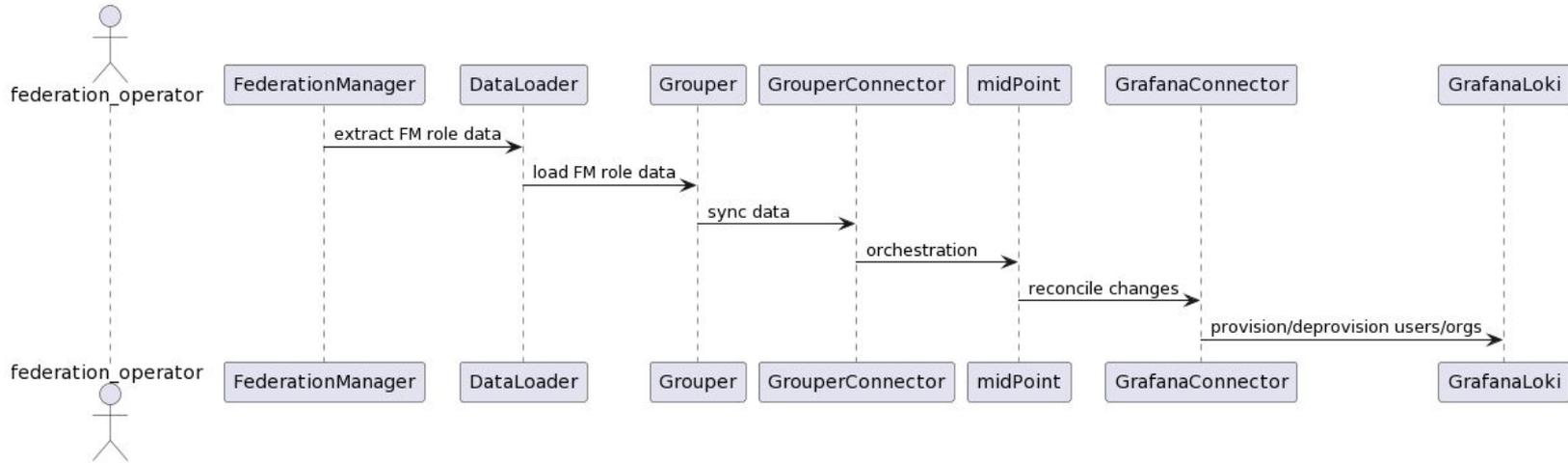
# Stakeholders



# Design Goals

- Externalize authentication and authorization for Federation Manager
- Privacy → Ensure each organization can only see their logs
- Grouper can become the authorization engine for the future
- midPoint becomes the automated provisioning engine
- Grafana connector is the conduit for provisioning

# Grafana Provisioning Sequence Diagram



Supports 3 object types (User, Organization, Datasource + Dashboard)

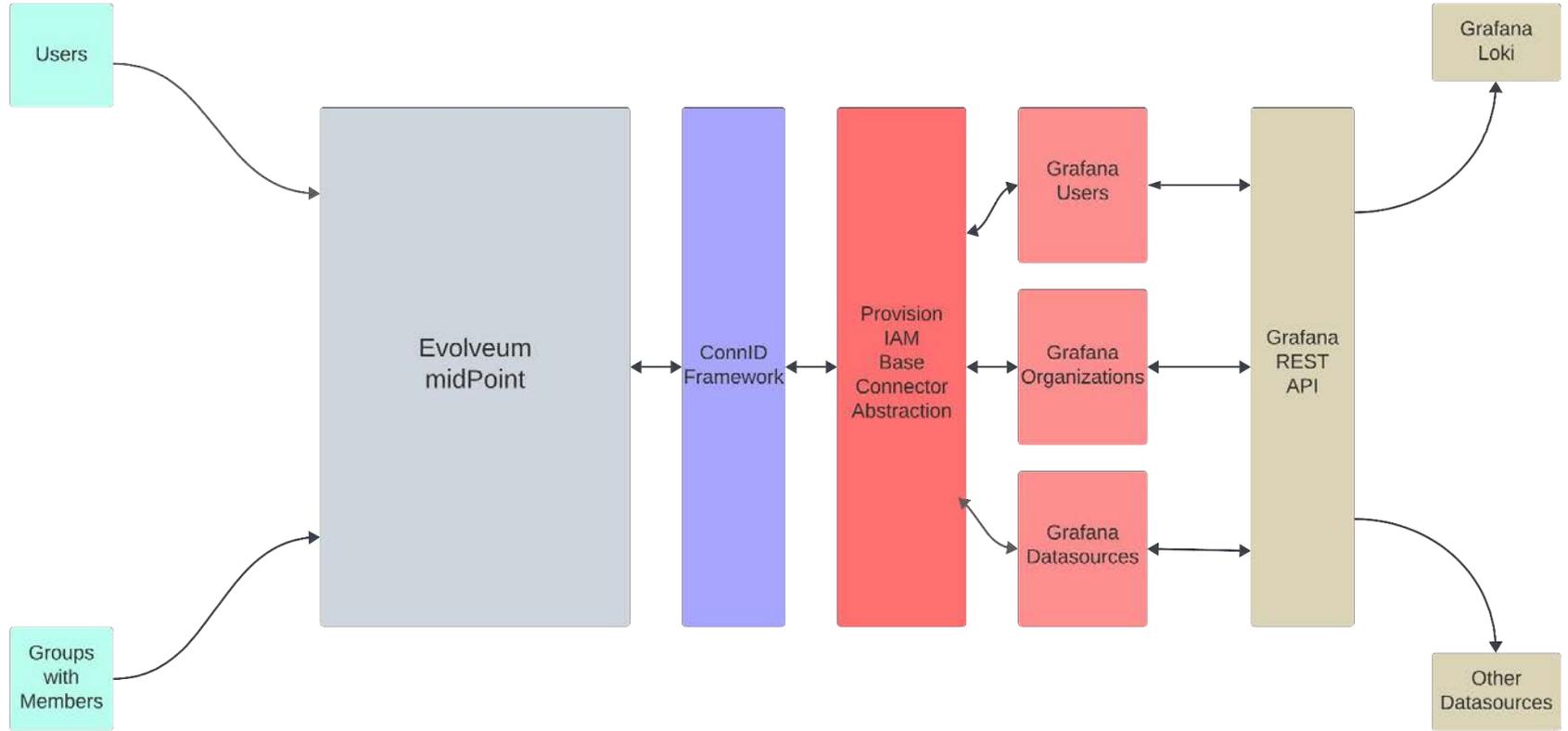
# Provision IAM Grafana Connector

- Provision IAM built a Grafana connector based on our **Base Connector Framework**
- This framework is used to **simplify** and **accelerate** the development of midPoint Resource **Connectors** that allow you to provision identity and access control for an institution's systems
- The **Grafana Connector** allows provisioning of users, organizations, datasources, dashboards, and organization preferences
- For more information:

<https://github.com/ExclamationLabs>

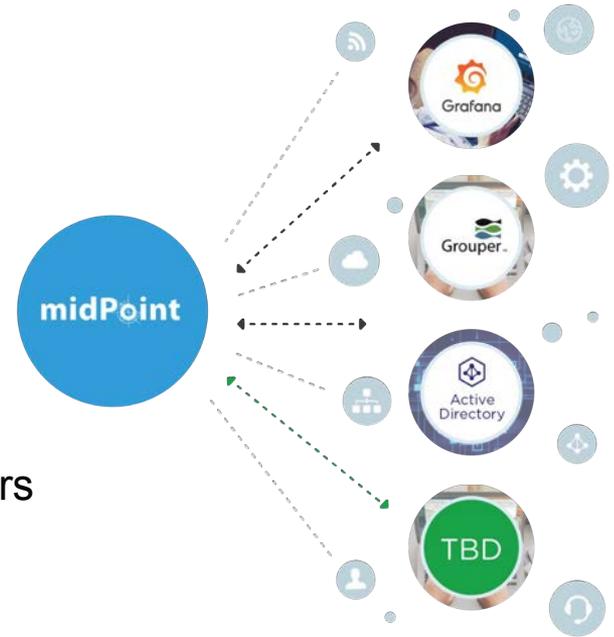
<https://provisioniam.com/Higher-Education-Solutions>

# Grafana Connector Detail



# Provision IAM Base Connector Features

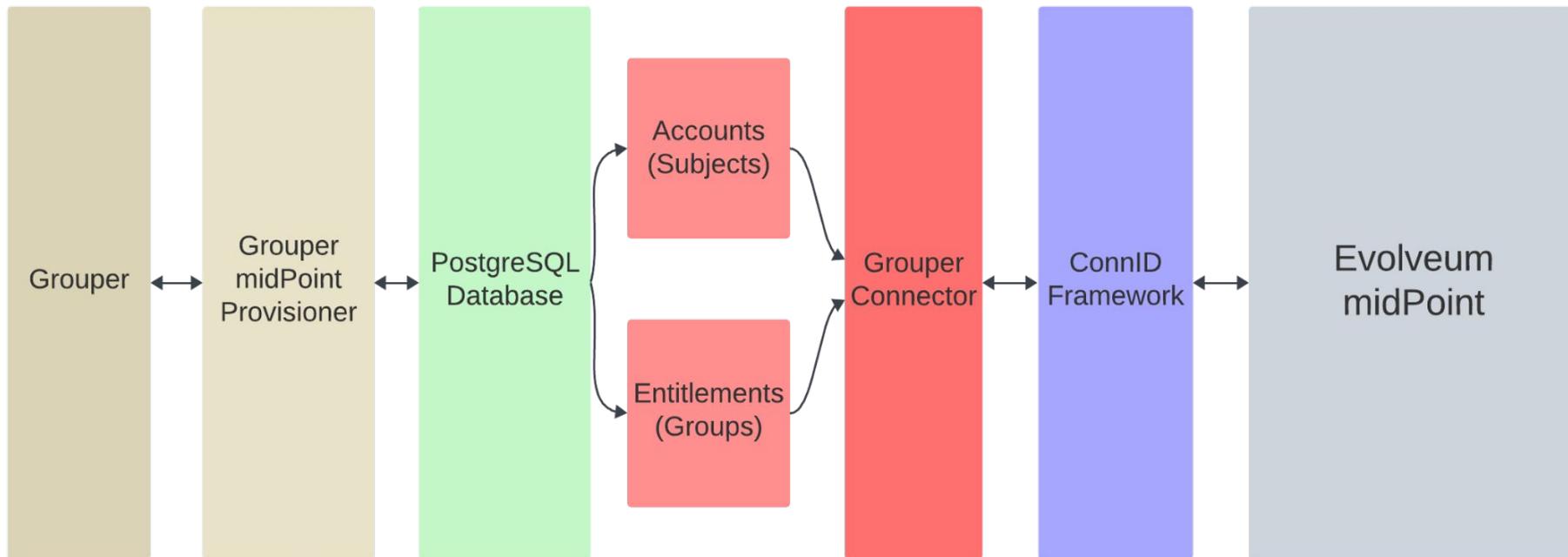
- Builds a connector configuration object from a YAML file
- Built-in authentication support for JWT, OAUTH2, Tokens, and Basic Auth
- Driver to manage CRUD operations
- Allows you to customize CRUD operations with invocators
- Built-in REST Support with JSON Conversions
- Service Endpoint Data Model interfaces JSON with Adapters
- Allows you to customize the Object Type schema with adapters
- <https://github.com/ExclamationLabs/connector-base>



# Improved Grouper Connector

- A new Grouper Connector, built by **Evolveum** has been released
- Simplified in comparison with the legacy connector
- Improved performance
- Support attribute extensions
- Easy configuration thanks to the resource wizard

# Grouper Connector Detail



# Resource Configuration Wizard (new)

- Beginning in midPoint 4.6, the Resource Wizard is vastly improved
- Configuration templates
  - Delivered with the connector
  - Connect multiple instances
- Configuration discovery
  - Configuration options are suggested by the connector
- Step-by-step guided configuration (wizard)
  - Configure the whole resource in GUI

# Demo

- Resource Wizard
- Federation Manager
- Grouper Data tree
- midPoint Organization and User Created
- Grafana List of User and Orgs

**Questions?**

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