Eduroam logs:
Demo of Grafana with IAM

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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

- eduroam Administrators
- Higher Education Implementers
- National Roaming Operators
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://github.com/ExclamationLabs)
  
  [https://provisioniam.com/Higher-Education-Solutions](https://provisioniam.com/Higher-Education-Solutions)
Grafana Connector Detail

- **Users**
- **Groups with Members**
- **Evolveum midPoint**
- **Contri Framework**
- **Provision IAM Base Connector Abstraction**
- **Grafana Users**
- **Grafana Organizations**
- **Grafana Datashares**
- **Grafana REST API**
- **Other Datashares**
- **Grafana Loki**
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](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

Grouper → Grouper midPoint Provisioner → PostgreSQL Database → Grouper Connector → ConnID Framework → Evolveum midPoint

- Accounts (Subjects)
- Entitlements (Groups)
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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