

**DACOE PRESENTATION** 

# Demystifying Identity and Access Management



- Saicharan Sirangi [Data Science Lead]

### What is Identity?

A thing that can get authenticated.

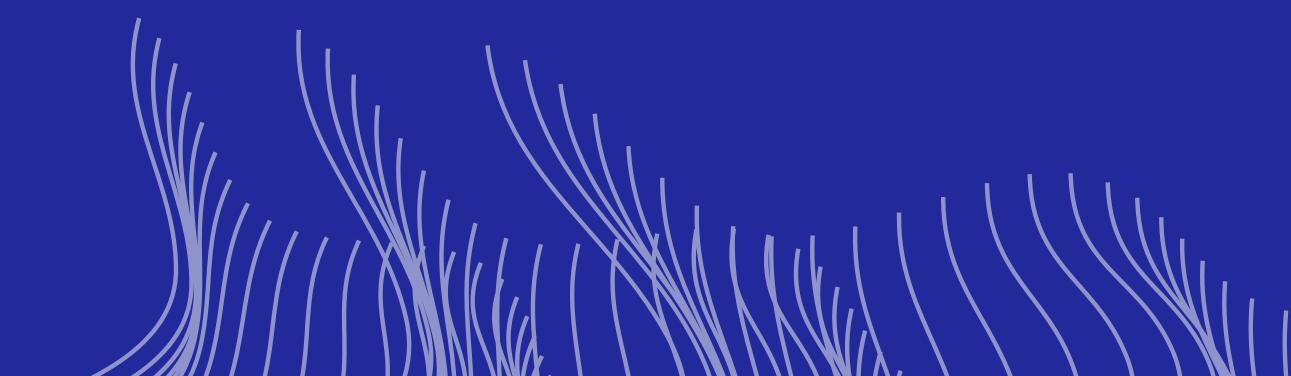
Can be a user with a username and password.

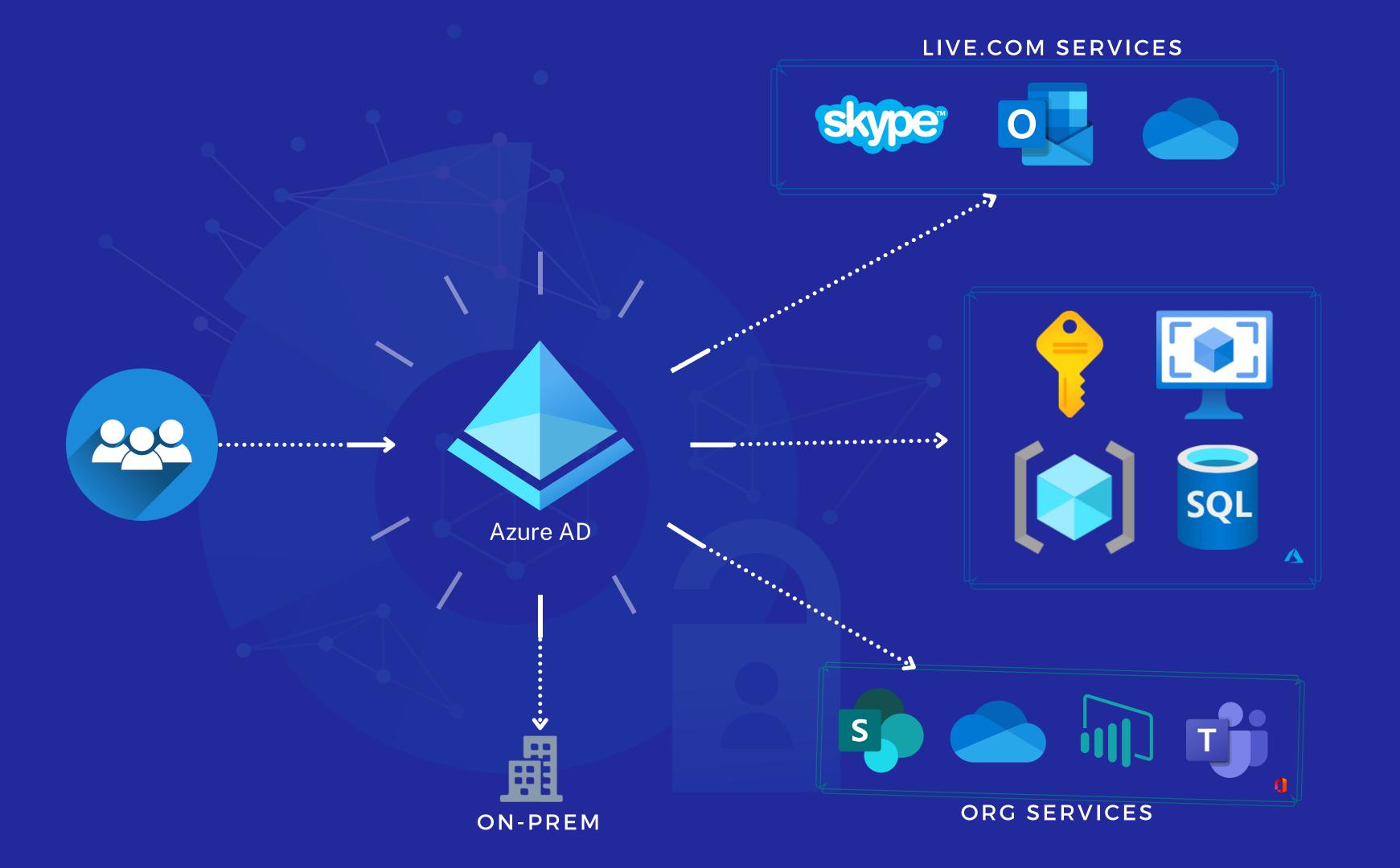
Also applications or other servers with secret keys or certificates.

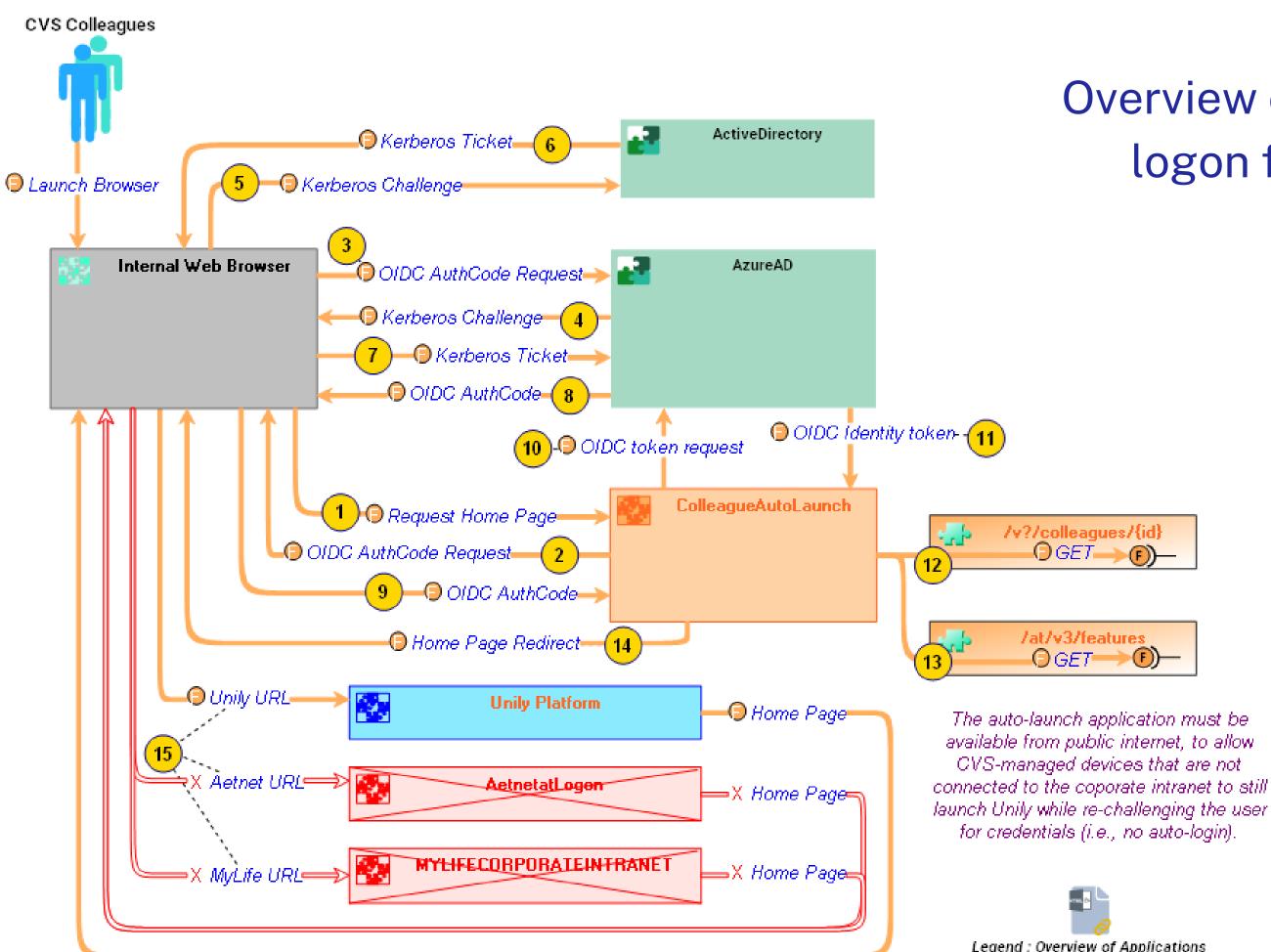


### Access Management

"The Process of controlling, verifying, tracking and managing access to authorized users and applications"



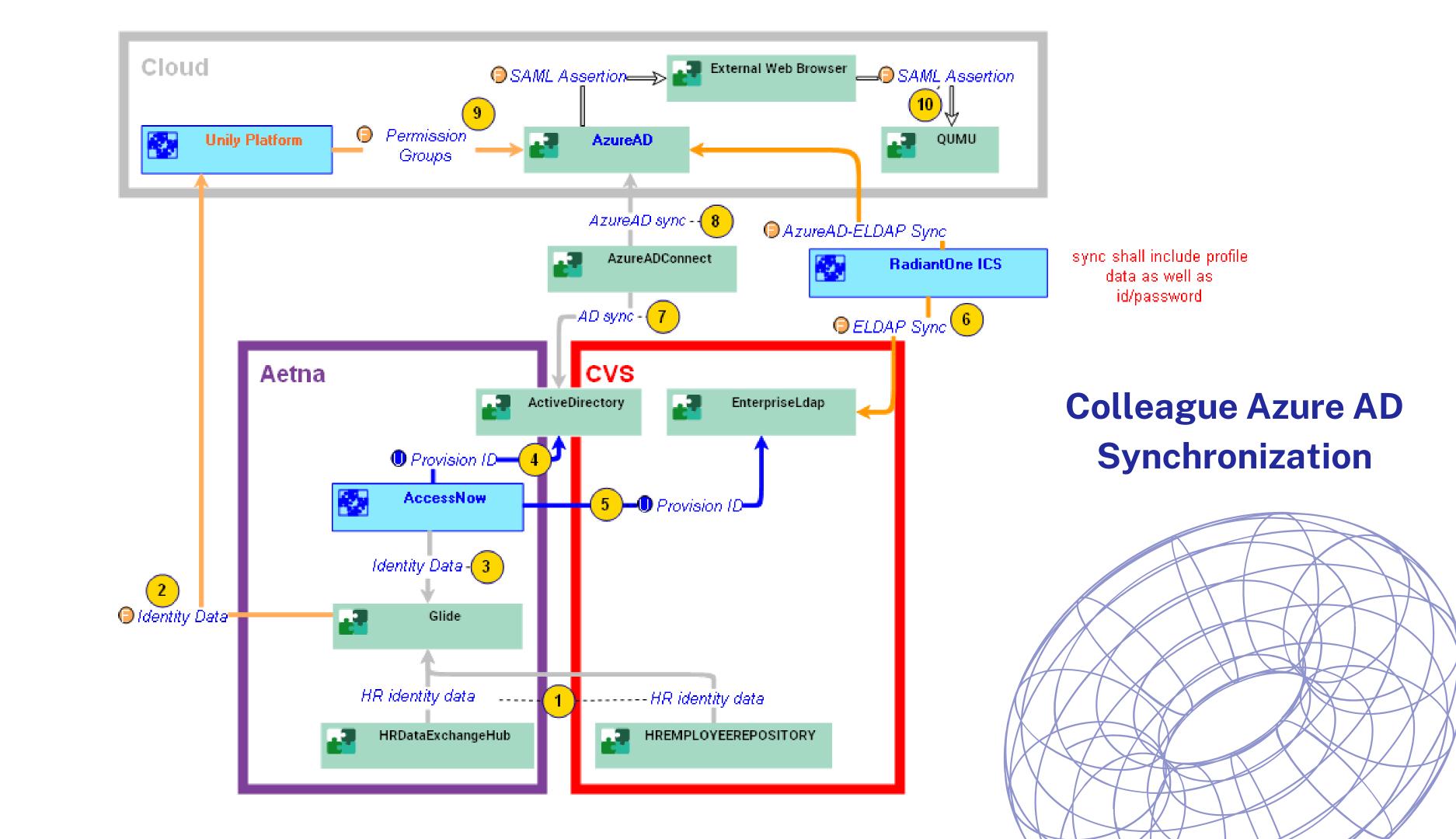


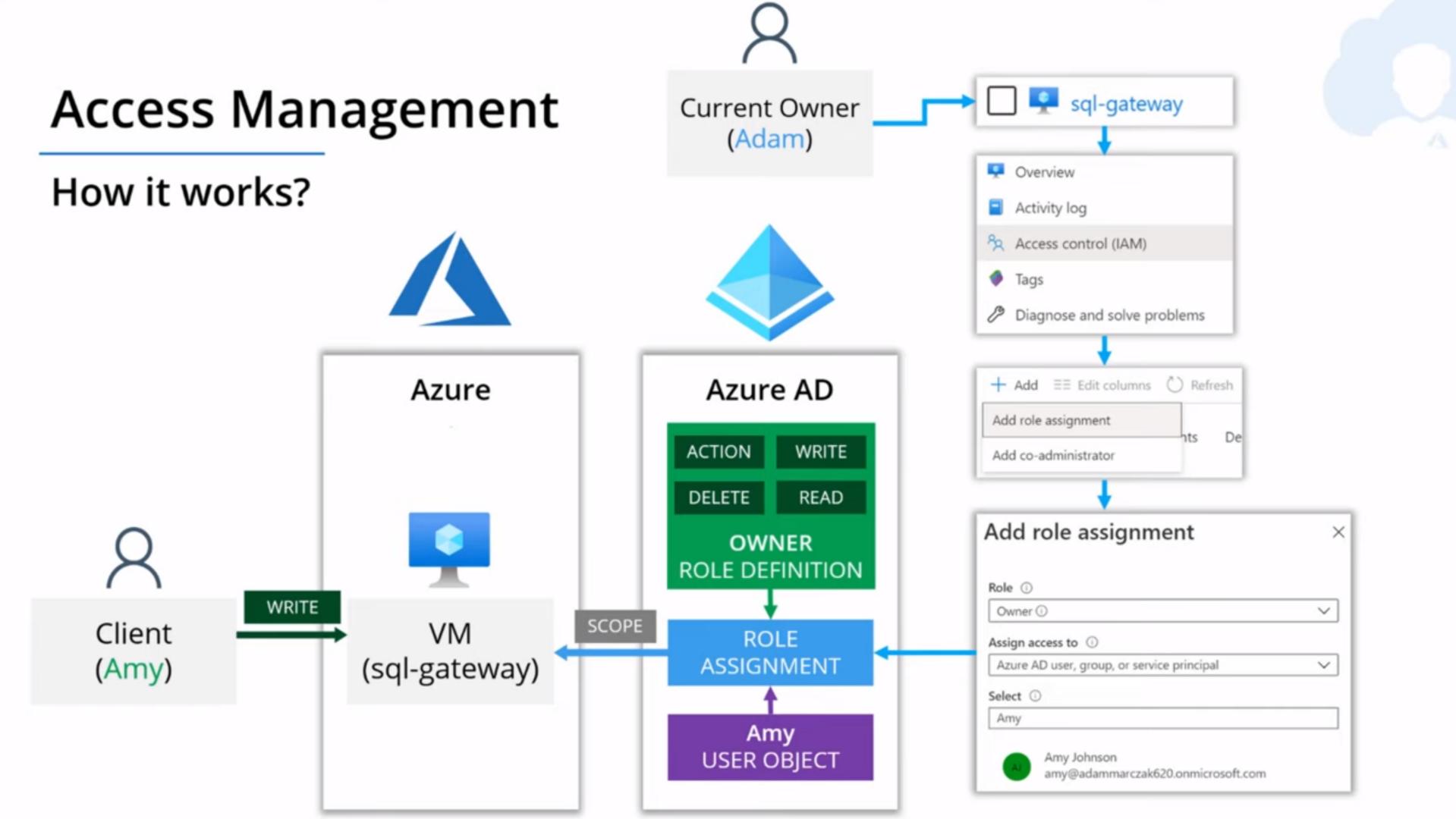


#### Overview of Applications : Unily logon from CVS network



Legend: Overview of Applications



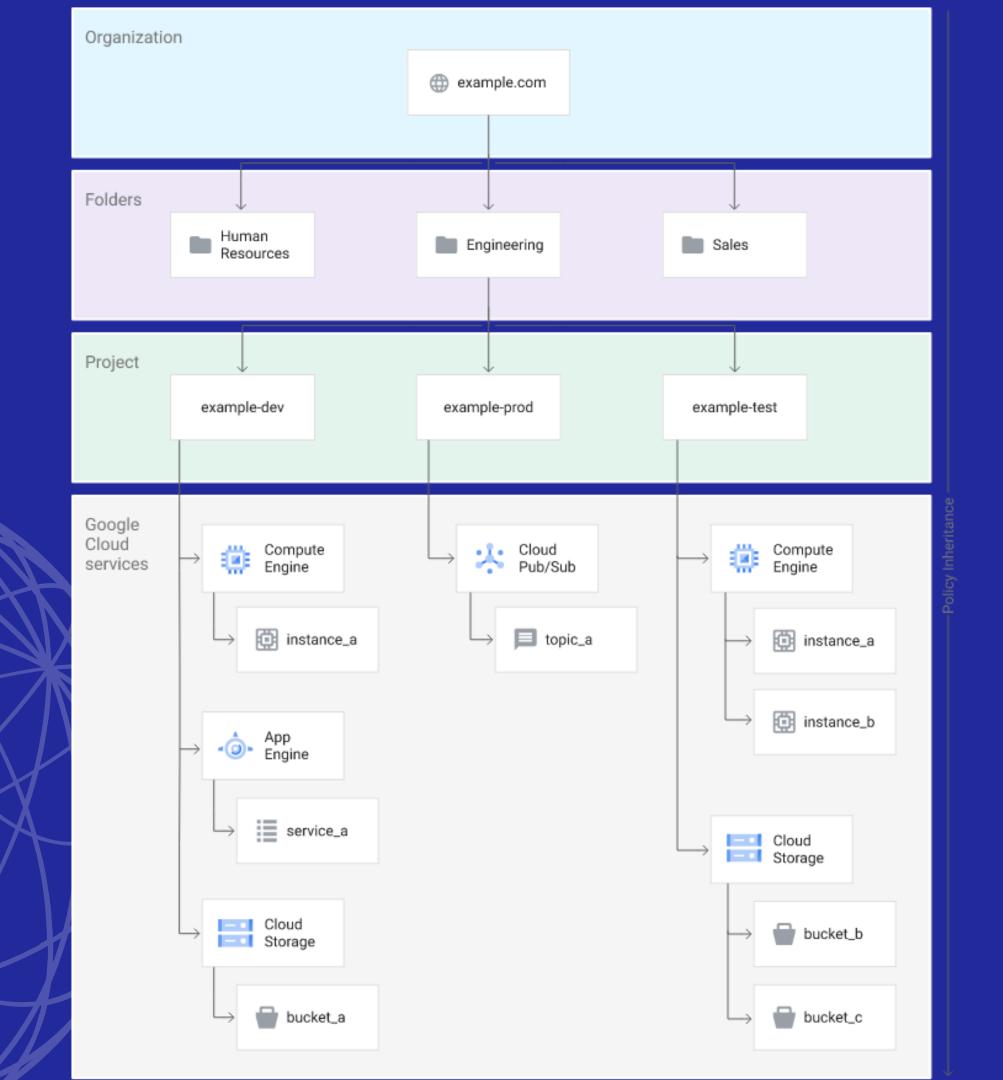


## Ideally get Universal Read Access

Permissions needed:

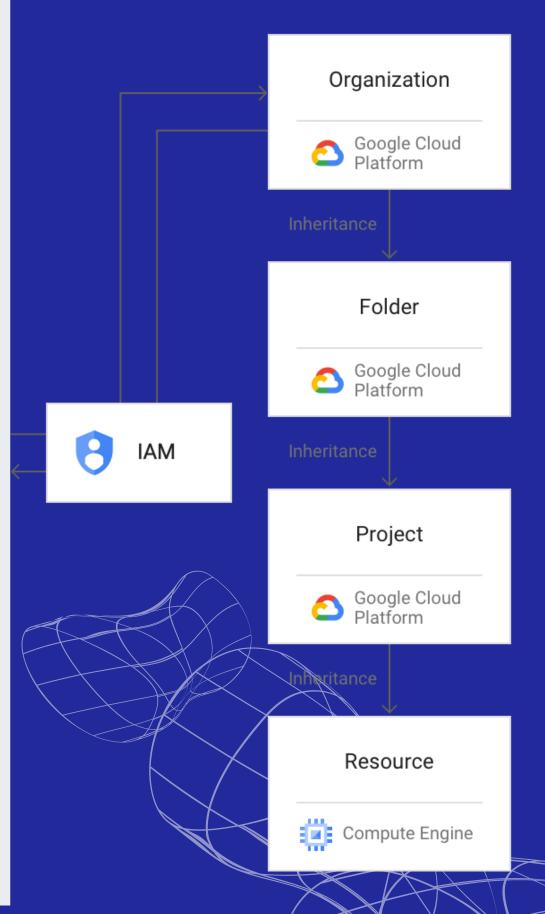
Role permissions	
microsoft.directory/applicationPolicies/allProperties/read	Read all properties of application policies.
microsoft.directory/applicationPolicies/owners/read	Read owners on application policies.
microsoft.directory/applicationPolicies/policyAppliedTo/read	Read application policies applied to objects list.
microsoft.directory/applicationPolicies/standard/read	Read standard properties of application policies.
microsoft.directory/applications.myOrganization/allProperties/read	Read all properties of single-directory applications.
microsoft.directory/applications.myOrganization/owners/read	Read owners on single-directory applications.
microsoft.directory/applications.myOrganization/standard/read	Read standard properties of single-directory applications.
microsoft.directory/applications/allProperties/read	Read all properties of all types of applications.
microsoft.directory/applications/applicationProxy/read	Read all application proxy properties of all types of applications.
microsoft.directory/applications/owners/read	Read owners on all types of applications.
microsoft.directory/applications/standard/read	Read standard properties of applications.
microsoft.directory/applications/synchronization/standard/read	Read provisioning settings associated with the application object.
microsoft.directory/applications/synchronization/standard/read	Read provisioning settings associated with the application object.
microsoft.directory/auditLogs/allProperties/read	Read audit logs.
microsoft.directory/connectorGroups/allProperties/read	Read all properties of application proxy connector groups.
microsoft.directory/connectors/allProperties/read	Read all properties of application proxy connectors.
microsoft.directory/provisioningLogs/allProperties/read	Read all properties of provisioning logs.
microsoft.directory/servicePrincipals/allProperties/read	Read all properties of service principals.
microsoft.directory/servicePrincipals/appRoleAssignedTo/read	Read service principal role assignments.
microsoft.directory/servicePrincipals/appRoleAssignments/read	Read role assignments assigned to service principals.
microsoft.directory/servicePrincipals/oAuth2PermissionGrants/read	Read delegated permission grants on service principals.
microsoft.directory/servicePrincipals/owners/read	Read owners on service principals.
microsoft.directory/servicePrincipals/policies/read	Read policies on service principals.
microsoft.directory/servicePrincipals/standard/read	Read standard properties of service principals.
microsoft.directory/servicePrincipals/synchronization/standard/read	Read provisioning settings associated with your service principal.
microsoft.directory/signInReports/allProperties/read	Read sign-in reports.

### Hierarchy



compute.instanceAdmin.v1

compute.imageUser

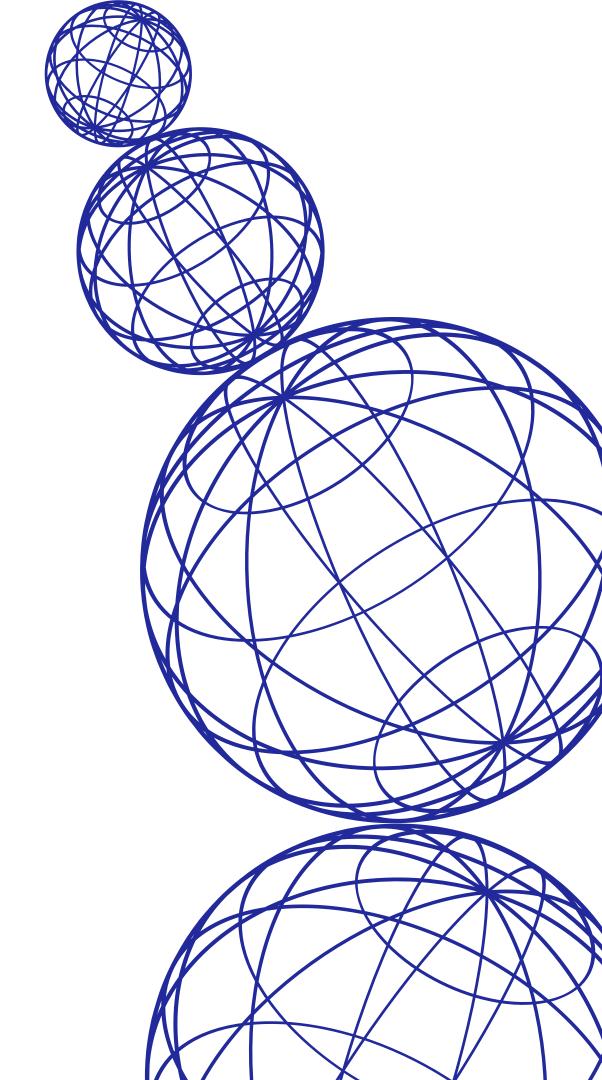


### IAM - Areas of interest

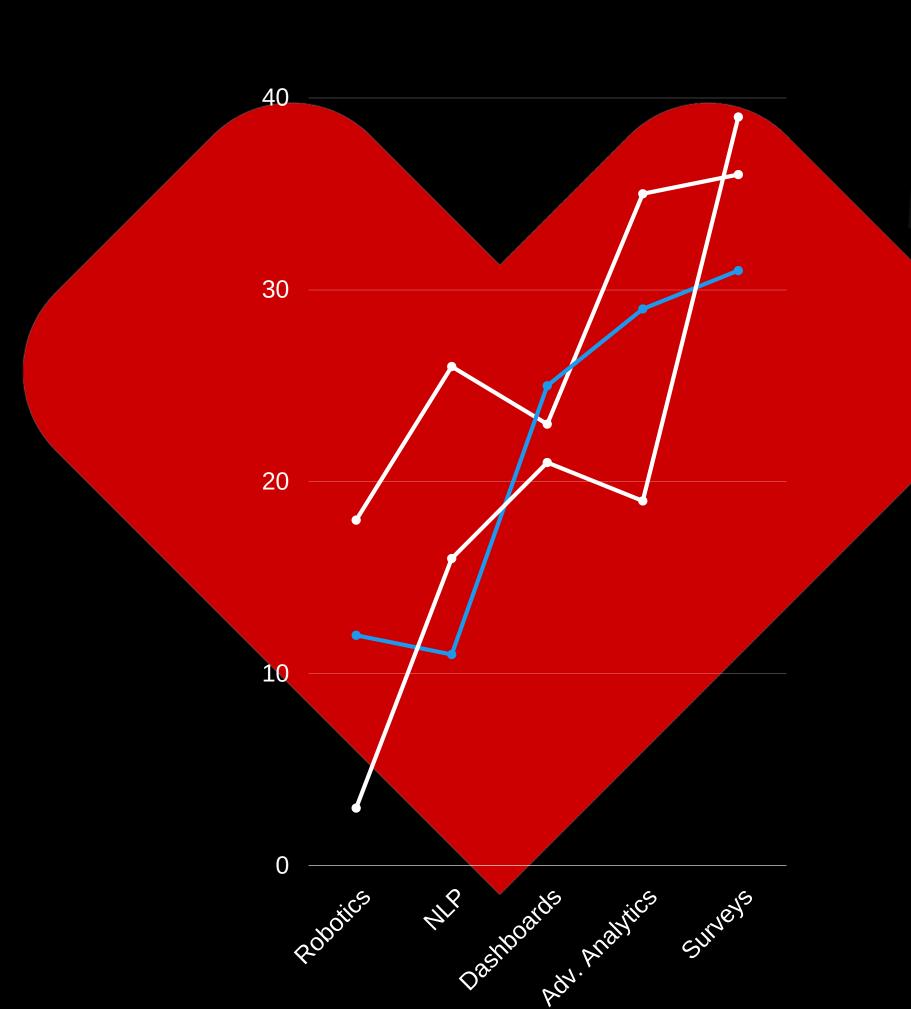
- Privilege Identity Management . Just in time Access
- Automated Provisioning and De-provisioning activity
- Single Sign-on, Multi-factor authentication, and PAM methods
- Safeguards For Privilege -Inheritance
- Federated Access
- Custom Roles & Conditional Policies
- Cross Cloud Protocols & recent gcp migration
- Automatic and Customizable Password Management
- Use of standard core protocols for Change management
- AD DS, Azure AD, Azure AD DS
- How Least privilege access is ensured



### Do you have any questions?







TALK TO US:

### Data Science Development

MICHAEL FRITZ

Supervisor

SAICHARAN SIRANGI

Lead

