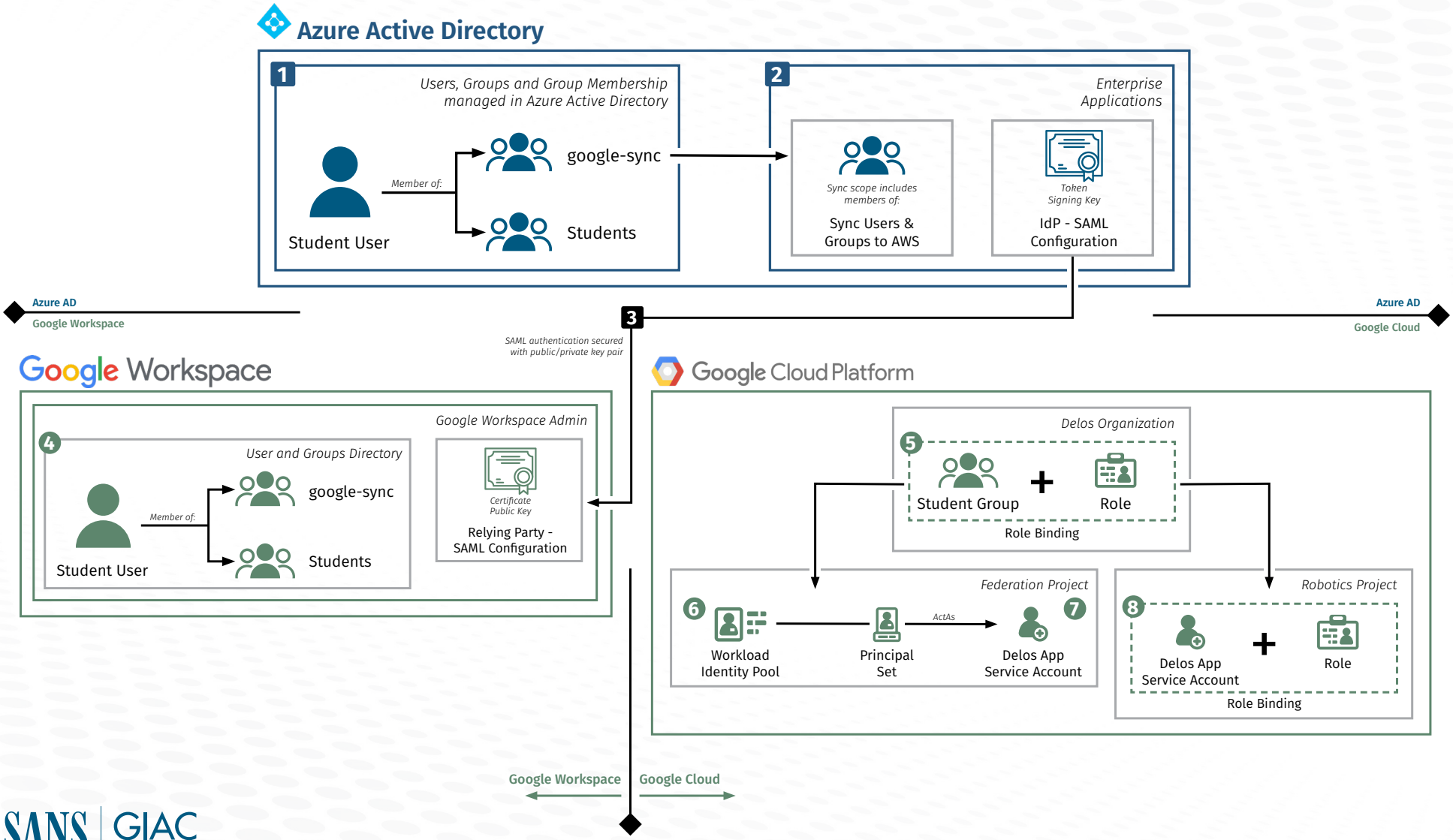
Azure to GCP Identity Architecture

CLOUD SECURITY

Created by Kat Traxler and Eric Johnson, co-authors of
SEC549: Enterprise Cloud Security Architecture | *sans.org/sec549*



SANS GIAC CERTIFICATIONS

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DIAGRAM KEY

1. User and groups managed within Identity Provider (Azure AD)
2. Azure Enterprise Applications used to sync in-scope users and groups to GCP and configure SAML Federation
3. SAML tokens signed and secured with private key stored in Azure AD, Public key exported to the Google Workspace Admin Console and used to validate SAML tokens
4. In-scope users and groups are replicated to a directory in Google Workspace
5. Google Cloud Roles are assigned to the Student User at the Organization Level and the permissions cascade down the hierarchy to all Projects and Resources
6. All Workload Identity Pools are created in a dedicated Project in order to confine blast radius and reduce identity sprawl.
7. Service Accounts are created within Projects. Where federation is configured, Workload Identity Principal Sets are allowed to ‘Act As’ Service Accounts.
8. Cross-Project Permissions are assigned to Service Accounts though Role Bindings. The confluence of a Principal, a Role and Resource such as a Project constitutes a Role Binding