Introductions

KPMG Presenters:

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Agenda

1. Introduction
2. What is Cloud Computing?
3. The Identity Management Lifecycle
4. Identity in The Cloud
5. Why Now?
6. An Architecture for Identity in the Cloud
7. Glossary of Terms
8. KPMG IAM COE Team Contact Information

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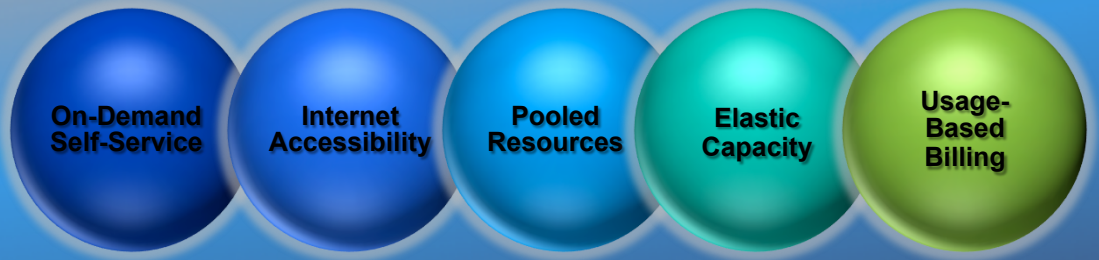
Cloud Computing

Understanding The Cloud Operating Environment

Cloud Environment = **Internet-based data access & exchange** + **Internet-based access to low cost computing & applications**

Cloud Environment Characteristics:



Cloud Service Models

Software as a Service	Platform as a Service	Infrastructure as a Service
Business operations over a network	*Deploy customer-created applications to a cloud*	*Rent processing, storage, network, other computing resources*
"SaaS"	*"PaaS"*	*"IaaS"*

Cloud Deployment Models

Private	Operated for a single organization
Public	Available to the general public or large industry group, owned by an organization selling cloud services
Community	Shared by several organizations, supporting a specific community

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Cloud Impact on Technology

"Self" Provisioned & Maintained

Virtualized "Utility" Consumption

"The rise of the cloud is more than just another platform shift that gets geeks excited. It will undoubtedly transform the information technology (IT) industry, but it will also profoundly change the way people work and companies operate."

- The Economist

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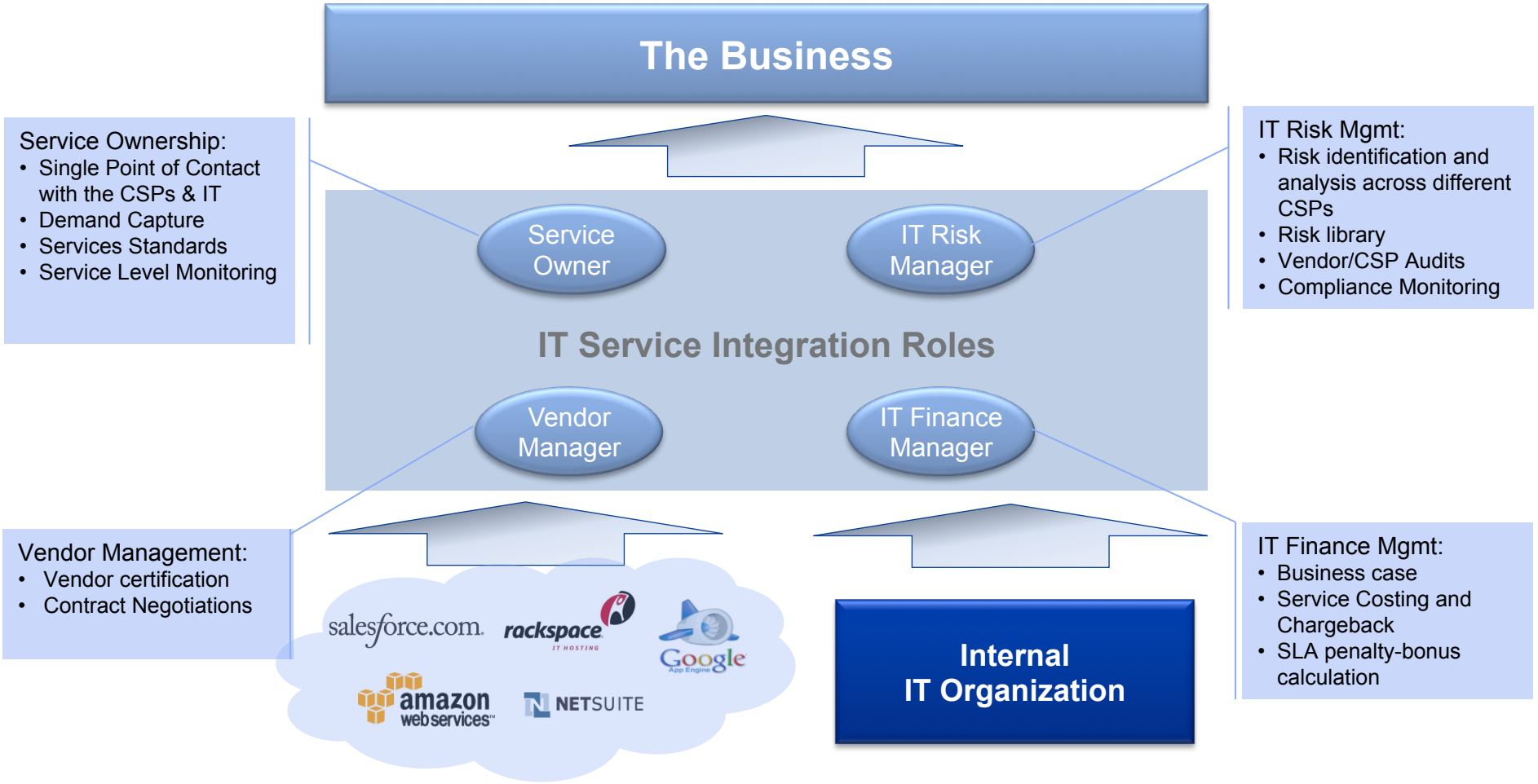
Impact of cloud computing on IT Operating Model



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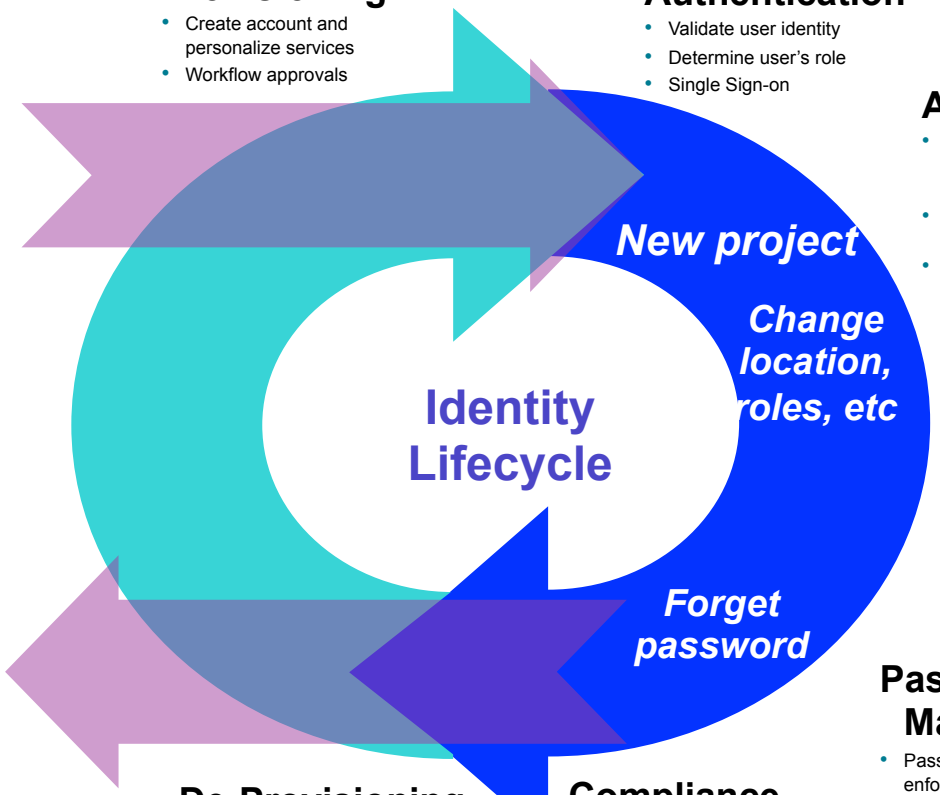
Identity Management

Identity and Access Management – Strategy and Architecture (cont.)

User Identity Lifecycle Methodology



Relationship Begins

Provisioning
- Create account and personalize services
- Workflow approvals

Authentication
- Validate user identity
- Determine user's role
- Single Sign-on

Authorization
- Establish and continually monitor user access rights including segregation of duties
- Procedures for treatment, processing and access to private information
- Controls to recognize and resolve attempted breaches

Self-Service
- Users can self-resolve routine administrative issues
- Updates to user information is synchronized with appropriate systems

Relationship Ends

Password Management
- Password rules established and enforced
- Procedures for creating, managing, and changing user passwords
- Self-service password reset

Compliance
- Real-time ability to log and audit security events
- Monitor user access
- Ease of auditing and reporting

De-Provisioning
- Automated controls to identify and remove user access to applications & systems

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Identity in the Cloud

What is Identity in the Cloud?

What is it?

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What is Hybrid IDM?

Hybrid Identity Management for the Cloud

Traditional IDM

Management of identities on systems located at owned and maintained data centers

Benefits: Control, Security

Cloud Architecture

Emphasis on moving infrastructure to a hosted environment

Benefits: Efficiency, Agility

Hybrid IDM Solution

Maintain IDM for local data centers and utilize **second** IDM instance for cloud based systems

Benefits: Control, Security, Efficiency, Agility

On-Premise

Focus:
- Internal Users
- External Party Intermediation

Externally Managed

Focus:
- Direct Connection with Key Partners
- Collaboration Communities

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Getting Out of the Identity Business

Why?

For What?

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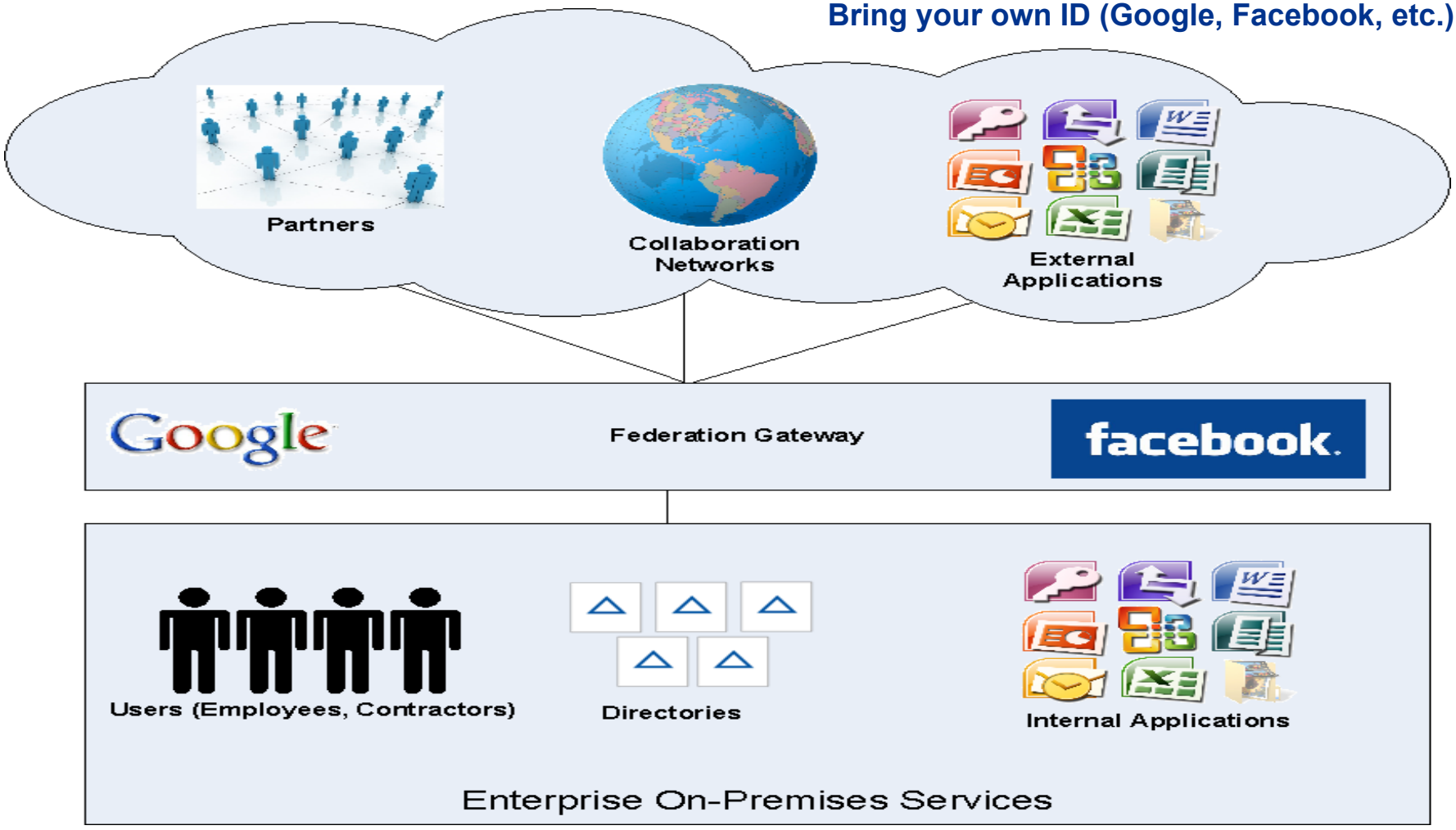
Why Now? – Federation

Federation barrier to entry has been reduced
- i.e. Ping Connect

Bring your own ID (Google, Facebook, etc.)



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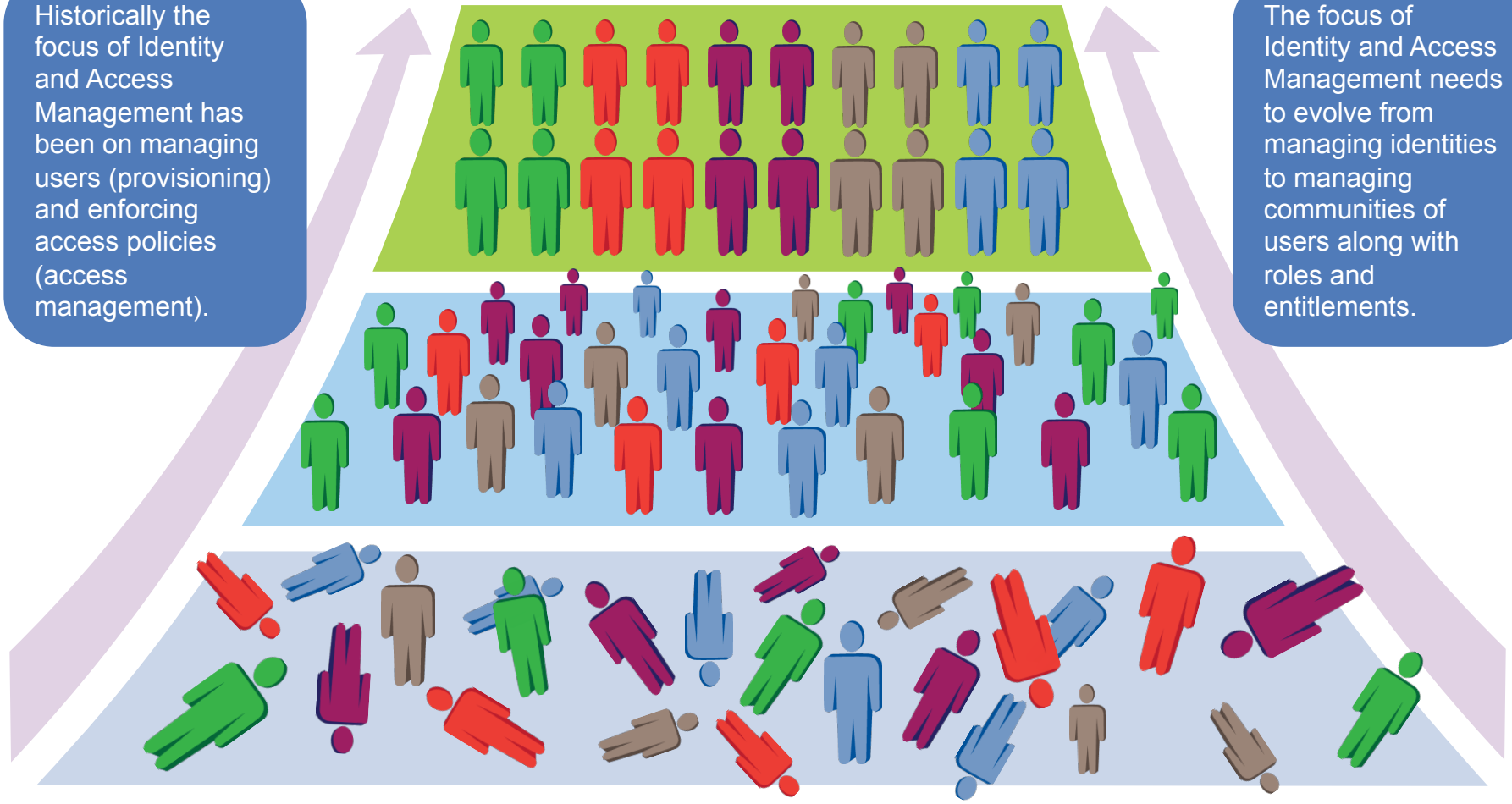
Enterprise Perspective: Macro Trends, Shifting Focuses

Historically the focus of Identity and Access Management has been on managing users (provisioning) and enforcing access policies (access management).



The focus of Identity and Access Management needs to evolve from managing identities to managing communities of users along with roles and entitlements.

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Hybrid IDM in the Cloud – Use Cases

Big Box Retailer

-Vendors / Business Partners bring their own ID

- Will this model be the EDI for Identity?

Fast Food Giant

-Almost 100,000 non-employees who need training

Manufacturer

-10,000 blue collar employees who login twice a year

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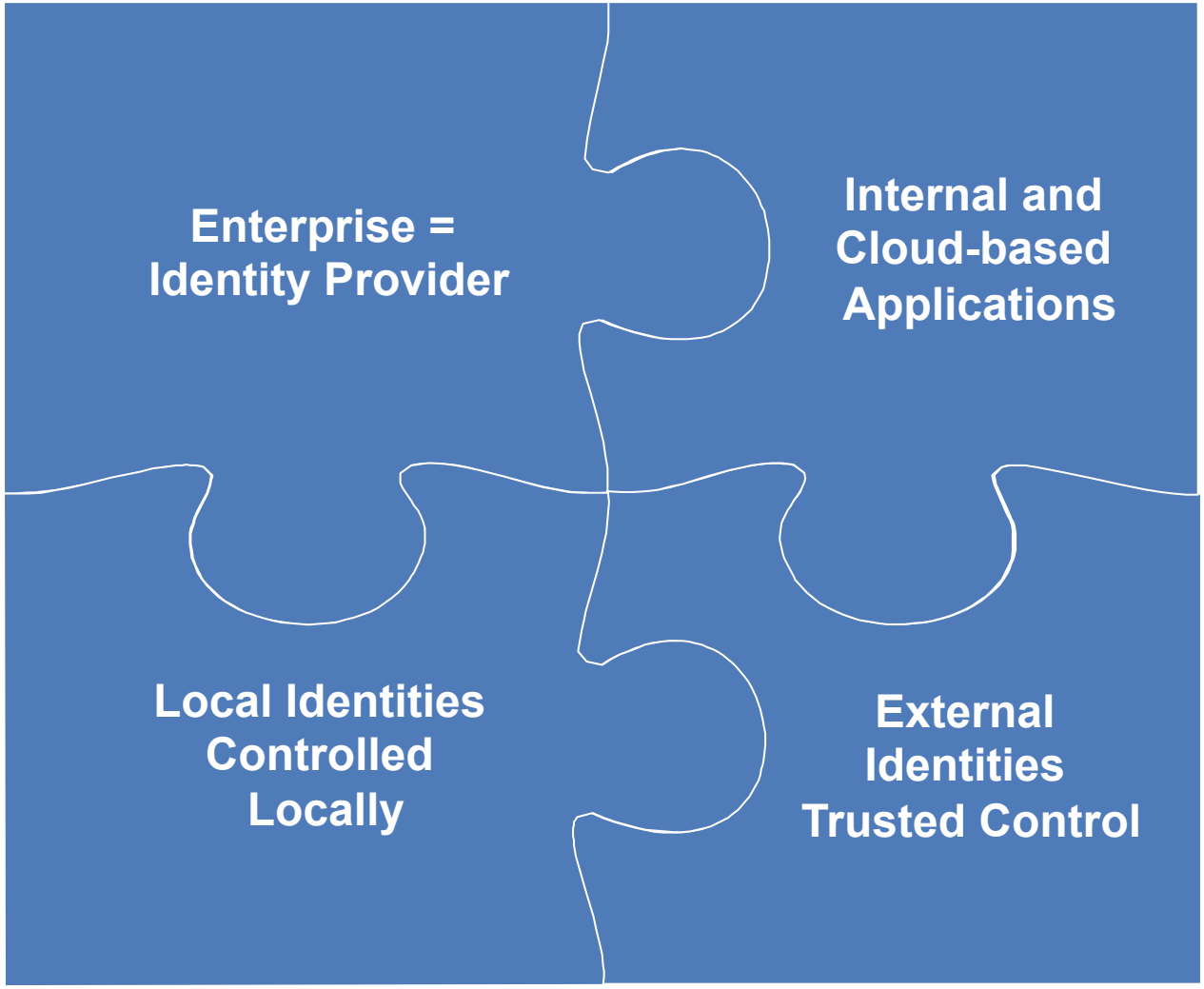
Hybrid IDM in the Cloud – How It Works



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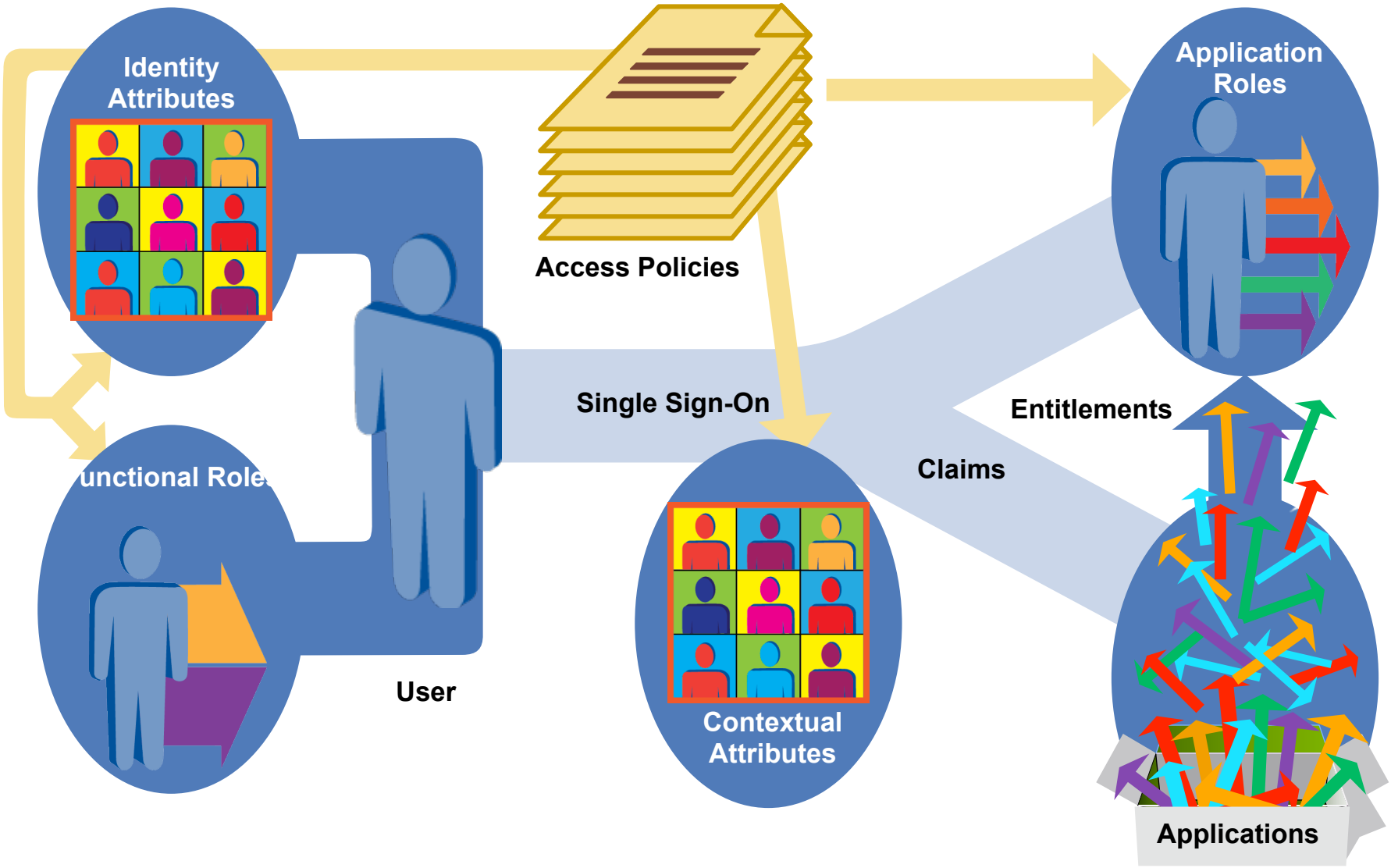
Hybrid Approach to Identity for the Cloud



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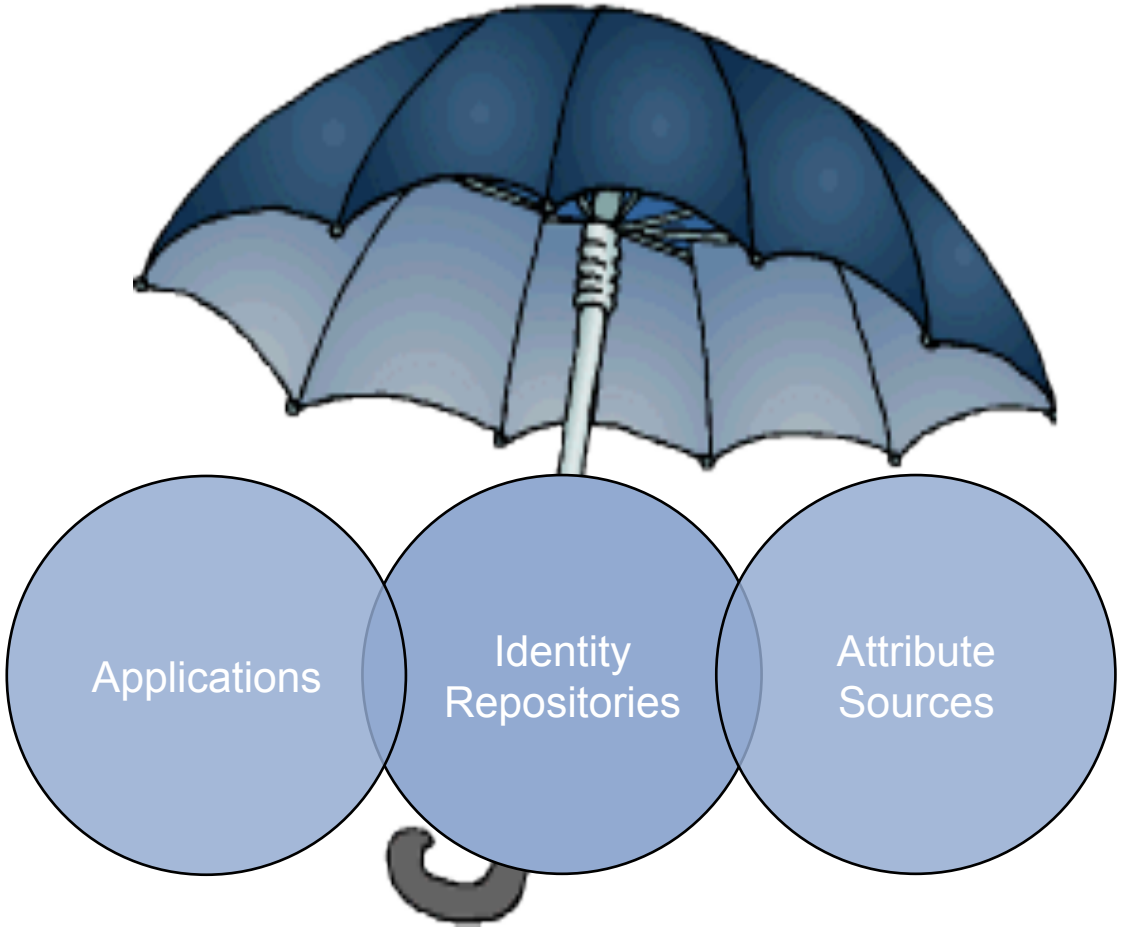
Hybrid IDM is a Reality Check, not a Utopian Vision

Enterprise =
Gateway Identity Provider



- **Externalize authentication and authorization**
- **Single sign-on infrastructure**
  - Cloud-based applications
  - Partner collaboration capabilities
- **Lifecycle management**
  - Authentication methods
  - Credentials
  - Attributes
  - Roles

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Questions and Answers

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Thank you

Presentation by Jay Schulman

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