Modern Web Access Management - Zero Trust Security - from on-premises to the Cloud

*Single Sign On, Access Controls, Session Management and how to use Access Management to protect applications both on premises and in the Cloud*
Agenda

1. Zero Trust Web Access Management

2. The Access Management Transformation – moving applications from the data center to the Cloud with Zero Trust Security
Part 1 – Zero Trust Web Access Management
Why Web Access Management?

Ensure EVERY request is vetted and scored before ever touching your application
(Use a “Zero Trust” Architecture)

Central enforcement and audit of access policies and activity

Continuous Authentication, Single Sign On, Session Management, and across all apps EVERYWHERE
Applications in the Traditional Data Center

SSO-Integrated Apps

Access Mgmt Agent/Proxy

Access Management Traffic (vendor-specific)

Local Users

Active Directory Database, etc.

LDAP

Local Users

Applications in the Traditional Data Center

SSO-Integrated Apps

Access Mgmt Agent/Proxy

Access Mgmt Agent/Proxy

Access Mgmt Agent/Proxy

Access Manager

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5 Modern Access Management Challenges

Applications in the Cloud

AJAX / Mobile / Thick Client Application Integration

"Agent-less" Infrastructure

Server-side Application Integration

Access Management as-a-Service
A Complete *Zero Trust Access Management Solution*

- **01** Authentication Management
- **02** Access Control Enforcement
- **03** Single Sign On
- **04** Risk Scoring & Analytics
- **05** Session Management
- **06** Centralized Audit

**Web Access Management**

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Common Access Management Gaps in the Cloud

- Centralized Audit
- Authentication Management
- Access Control Enforcement
- Single Sign On
- Session Management
- Risk Scoring & Analytics
SSO/Rest combines existing and emerging technologies to extend the perimeter of your IAM solution safely and securely into your public Cloud platforms.

- **A**: Rest based - lightweight
- **B**: Modern engineering – orchestration, metrics, analytics
- **C**: Easy to use, handles latency, transparent...
- **D**: Risk scoring, strong authentication

The IDF Connect Solution – SSO/Rest

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**But... is this just Federation?**

<table>
<thead>
<tr>
<th>NO! Ticket or Claims-based approaches are not enough:</th>
<th>Continuous authentication</th>
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<tbody>
<tr>
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<td>Perimeter access management</td>
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<td>Block attacks before they touch your applications</td>
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<td>Application security alone is not enough</td>
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Remember: Federation is NOT the Same as Web Access Management

**Federation**
- One-time handoff from partner IDP
- Limited logout capability

**Web Access Management (WAM)**
- Policy Enforcement Point (PEP)
- Policy Decision Point (PDP)
- Perimeter Defense
- Audit
- Access control
- Session lifecycle management

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Proven Success Stories

**Seamless and Secure Integration**
Fortune 50 retail company makes an acquisition, and has seamlessly and securely integrated the new web apps with its eCommerce portal, without having to bring the apps in-house or creating a VPN to the new company.

**Successfully Moving .NET applications to Microsoft Azure**
Fortune 50 finance company successfully moves its .NET applications to Microsoft Azure while preserving all of its SSO integrations, authentication and access policies, and audit capabilities.
You should be interested in this technology if...

- You have an existing SSO/WAM solution and are moving applications to the Cloud
- You want or need the **assurance** that every request is VETTED and SCORED **before ever touching your application**
- You require **fine grained access controls** and centralized policy **management**
- You require a **complete audit trail** of end-user activity within a given session
- You need a web access management solution that is **modern** and leverages today’s tools and capabilities (e.g. ELK, Docker, Kubernetes)
- You are interested in offering Web Access Management as a **managed service**
- You have an **API Gateway** and want a modern **Policy Decision Point** for its Auth & Auth requirements
- You are building **rich applications** (mobile, AJAX) and require web services for all manner of seamless access management integrations
Part 2
The Access Management Transformation
Moving applications from the data center to the Cloud with Zero Trust Security
Zero Trust Security in any Cloud

Application in the Cloud

IDF Connect SSO/Rest Plugin

Application SSO integration requests to SSO/Rest (optional)

SSO/Rest Plugin (JSON over HTTPS)

External Firewall

IDF Connect SSO/Rest Gateway

Internal Firewall

PEP to PDP Traffic

- SSO/Rest w/ XACML engine
- CA SSO
- Oracle AM
- OpenAM

Policy Decision Point

Browser HTTP(s) requests to application

Browser AJAX SSO integration requests to SSO/Rest (optional)

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SSO-Integrated Apps

IDF Connect SSO/Rest Plugin

IDF Connect SSO/Rest Gateway

SSO/Rest Plugin (JSON over HTTPS)

SSO/Rest XACML queries

XACML Policy Store

Active Dir, Database etc.

Local Users

Policy Decision Point

Policy Enforcement Point

Local Users

LDAP

Data Center

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Complete enterprise-grade IAM-as-a-Service!
Platform support

**Web Servers:**
- Apache
- NGINX
- Microsoft IIS

**App Servers:**
- Apache Tomcat
- WildFly
- JBoss
- Oracle WebLogic

**App Platforms:**
- Java Servlets
- Microsoft .NET
- AJAX
- Mobile Technology

**Web services for all manner of integrations**

...and other thick clients!