



Microsoft Entra

JR Session
Enterprise Architect in California



Agenda

1. Importance of IAM in Cloud Environments
2. What is Azure Active Directory (Azure AD)?
3. Differences between Active Directory, Azure Active Directory, and Microsoft Entra
4. How Azure AD Integrates with Microsoft 365, Azure Portal, and SaaS Applications
5. Benefits for IT Admins
6. Benefits for developers

Importance of IAM in Cloud Environments

In the context of cloud computing, IAM assumes an even more critical role.

As resources are accessed remotely, often beyond the traditional network boundaries, IAM ensures that only authenticated and authorized users can access these resources.

This enhances security and facilitates regulatory compliance and efficient resource management.

What is Microsoft Entra ID?

Microsoft Entra ID is Microsoft's cloud-based identity and access management service. It helps organizations securely manage and provide access to their apps, data, and even hardware resources. Here's a brief overview:

- **Identity Management:** Microsoft Entra ID stores information about users (like usernames and passwords) and determines what those users can access and do.
- **Single Sign-On (SSO):** Allows users to sign in once and then access multiple apps without needing to log in again for each one.

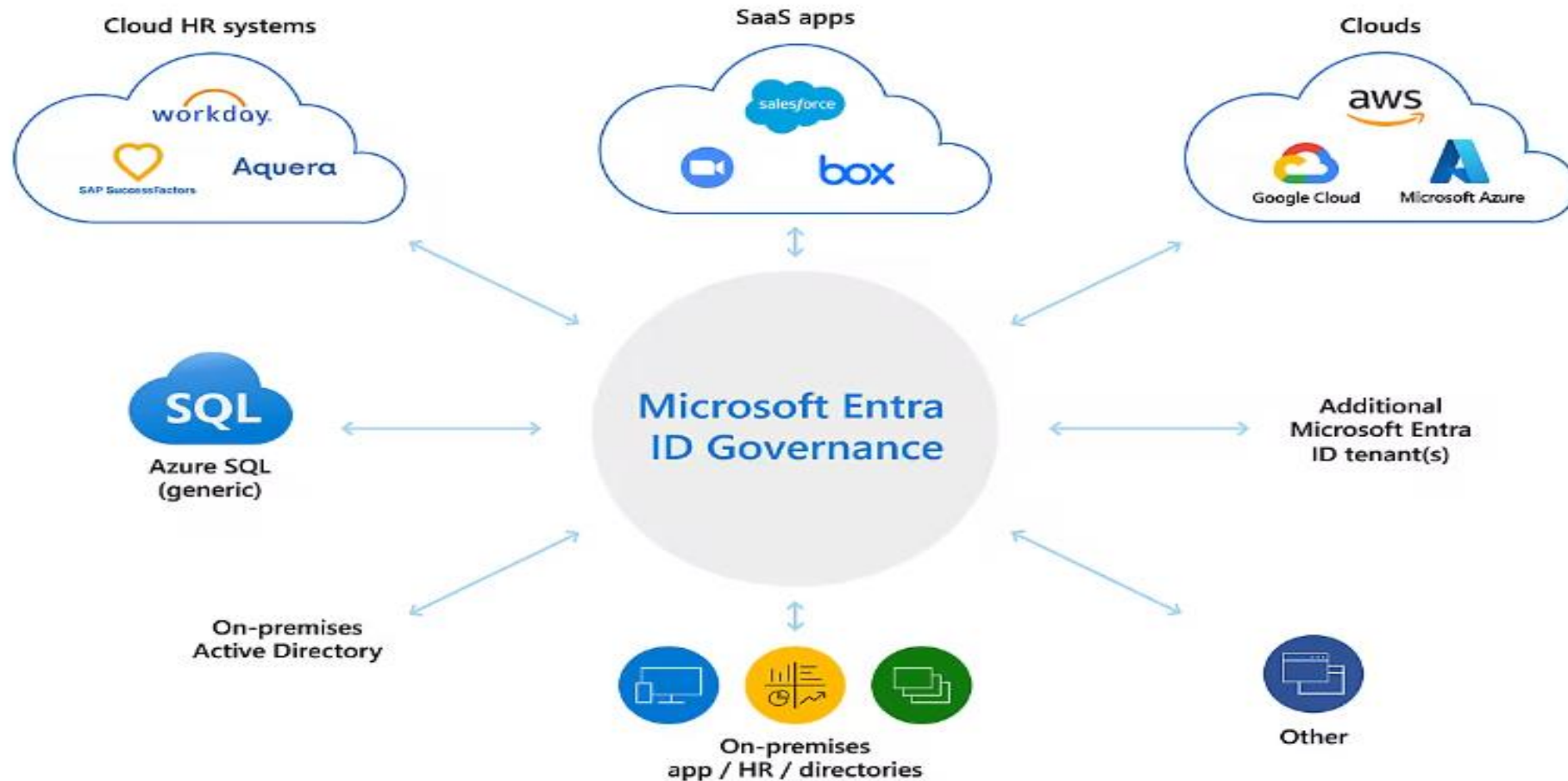
What is Microsoft Entra ID?

- **Multi-Factor Authentication (MFA):** Microsoft Entra ID can add an extra layer of security by requiring two or more methods of verification before granting access. For example, besides a password, a user might also need to enter a code sent to their phone.
- **Conditional Access:** It can determine access based on various conditions, such as the user's location, device, or risk level.

What is Microsoft Entra ID?

- **Integration with Various Apps:** Microsoft Entra ID works not only with Microsoft applications but also with a wide range of external apps, allowing for centralized identity management regardless of the application platform.
- **Device Management:** Microsoft Entra ID can manage devices, ensuring they meet specific security standards before accessing certain resources.

Microsoft Entra ID Governance?



Differences between Active Directory, Azure Active Directory, and Microsoft Entra

- **Active Directory (AD):** Primarily an on-premises identity solution, AD manages users, groups, and computers within a corporate network and uses protocols like LDAP and Kerberos for authentication.
- **Azure Active Directory (Azure AD):** A cloud-centric solution designed for managing identities in the cloud. It supports modern authentication protocols like OAuth and OpenID Connect and integrates seamlessly with various cloud services.
- **Microsoft Entra:** An evolved form of Azure AD, now known as Microsoft Entra ID, it represents a shift in Microsoft's approach to IAM. It offers enhanced security features, workload identities, and identity governance, among other functionalities, making it a comprehensive IAM solution.

How Azure AD Integrates with Microsoft 365, Azure Portal, and SaaS Applications

Azure AD's is integrated within the Microsoft ecosystem in the following manner:

- **Microsoft 365 Integration:** Every Microsoft 365 subscription inherently ties to an Azure AD tenant. This means organizations using Microsoft 365 are also leveraging Azure AD for identity and access management.
- **Azure Portal Integration:** Azure AD is the backbone of identity management for the Azure portal. It manages user identities, ensuring they have the right permissions to access Azure resources.
- **SaaS Applications Integration:** Azure AD supports Single Sign-On (SSO) for a multitude of SaaS applications. This SSO capability ensures users sign in once and gain access to multiple applications without the need for repeated authentication.

Benefits for IT Admins

- **Security Enhancements:** With features like Multi-Factor Authentication (MFA), Conditional Access, and Identity Protection, IT admins can add layers of security to protect against unauthorized access or potential breaches.
- **Single Sign-On (SSO):** SSO reduces the number of passwords users need to remember, reducing the load on IT helpdesks for password resets and related issues.
- **Automated User Provisioning:** Azure AD can automatically provision and de-provision users based on pre-defined rules for cloud applications, significantly reducing manual effort.

Benefits for IT Admins

- **Access Reviews:** Regular reviews of user access can be set up, helping IT admins ensure that only the right people have access to specific resources and apps.
- **Advanced Reporting and Monitoring:** Azure AD provides detailed logs and reports, allowing IT admins to monitor activities, diagnose problems, and detect suspicious activities.
- **Self-Service Capabilities:** End-users can manage tasks like password resets or group memberships without IT intervention, freeing up IT resources.

Benefits for IT Admins

- **Standardized Integration with SaaS Apps:** Azure AD supports thousands of pre-integrated Software as a Service (SaaS) Customization and Extensibility: Azure AD offers flexibility with APIs for custom integrations and extensions according to resources without the need for significant infrastructure changes.

Benefits for Developers

- **Easy Authentication:** Azure AD allows developers to integrate authentication processes quickly with just a few lines of code. It simplifies user sign-up and sign-in procedures.
- **Single Sign-On (SSO):** With Azure AD, developers can enable users to sign in to their application using a single set of credentials. This improves user experience by eliminating the need to remember multiple passwords for different apps.
- **Access to Microsoft Graph:** Developers can utilize Microsoft Graph to access a wealth of data in the Microsoft cloud, such as user profiles, organizational hierarchies, and more. This can enrich app features and functionalities.

Benefits for Developers

- **Security:** Azure AD handles the complexities of secure authentication, so developers don't have to. Features like Multi-Factor Authentication (MFA) can be easily integrated to bolster app security.
- **B2B and B2C Capabilities:** Azure AD B2B and B2C offer developers tools to build apps for businesses collaborating with other businesses or directly targeting consumers. This offers flexibility in targeting various audience types.
- **Conditional Access:** Developers can integrate conditional access policies, ensuring that their applications grant access based on dynamic conditions like user location or the security posture of their device.

