

Many Voices.
One Community.

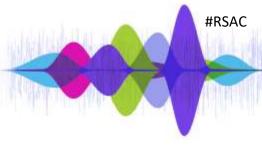
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Your Microsoft Cloud Is the Attacker's Computer

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About Me

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- Identity Security Architect at TrustedSec
- Microsoft Certified Master (MCM) Directory Services
- Speaker: Black Hat, Blue Hat, Blue Team Con, BSides Charm, BSides DC, BSides PR, DEFCON, DerbyCon, TEC, & Troopers
- Former Microsoft MVP
- Security Consultant / Researcher
- AD Enthusiast Own & Operate ADSecurity.org (Microsoft identity security info)







Agenda

- Introduction
- Entra ID Highly Privileged Roles & Applications
- Entra ID Security Posture
- Conditional Access Policy & CAP Gaps
- Attacking Entra ID
- From Entra ID to Azure to Active Directory
- Securing Entra ID Administration
- Conclusion







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RSAC 2025 Conference

Entra ID Level 0

Like Tier 0, but Different!

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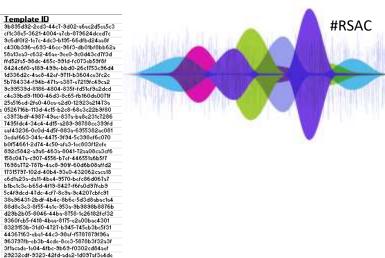
There are >100 **Entra ID** Roles!

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Role Description Template ID Application Administrato Can create and manage all aspects of app registrations and enterprise apps Application Developer Can create application registrations independent of the 'Users can register applications' setting. Attack Payload Autho Can create attack payloads that an administrator can initiate later Attack Simulation Administrato Can create and manage all aspects of attack simulation campaign: Assign custom security attribute keys and values to supported Microsoft Entra objects Attribute Assignment Administrator om security attribute keys and values for supported Microsoft Entra objects. manage the definition of custom security attributes. definition of custom security attributes. t logs and configure diagnostic settings for events related to custom security attributes. t logs related to custom security attributes s to view, set and reset authentication method information for any non-admin user. sign in and sign up experiences for users by creating and managing custom authentication extensions and manage the authentication methods policy, tenant-wide MFA settings, password protection policy, and v ge Azure DevOps policies and settings ge all aspects of the Azure Information Protection product ge secrets for federation and encryption in the Identity Experience Framework (IEF) and manage trust framework policies in the Identity Experience Framework (IEF). rm common billing related tasks like updating payment information. ge all aspects of the Defender for Cloud Apps product and manage all aspects of app registrations and enterprise apps except application proxy. cess to manage devices in Microsoft Entra ID. and manage compliance configuration and reports in Microsoft Entra ID and Microsoft 365 nd manages compliance content. ge Conditional Access capabilities. ove Microsoft support requests to access customer organizational data. ss and manage Desktop management tools and services basic directory information. Commonly used to grant directory read access to applications and guests. by Microsoft Entra Connect service and write basic directory information. For granting access to applications, not intended for users ge domain names in cloud and on-prem ge all aspects of the Dynamics 365 product s Dynamics 365 Business Central environments and perform all administrative tasks on the environments ill aspects of Microsoft Edge. ge all aspects of the Exchange product or update Exchange Online recipients within the Exchange Online organization 31392ffb-586c-42d1-9346-e59415a2cc4e and manage all aspects of user flows. 6e591065-9bad-43ed-90f3-e9424366d2f0 and manage the attribute schema available to all user flows 0f971eea-41eb-4569-a71e-57bb8a3eff1e gure identity providers for use in direct federation be2f45a1-457d-42af-a067-6ec1fa63bc45 ge all aspects of the Fabric and Power BI products 53c58336-122f-4c74-3520-8c4c4132826c ge all aspects of Microsoft Entra ID and Microsoft services that use Microsoft Entra identities 62×30334-6365-4237-3130-012177145×10 everything that a Global Administrator can, but not update anything.

Individual appeals of Microsoft Entra Internet Access and Microsoft Entra Private Access, including managin ac434307-12b9-4fa1-a708-88bf58caabcf of this role can create/manage groups, create/manage groups settings like naming and expiration policies, and v fdd7a751-b60b-444a-984c-02552fe8fa1c guest users independent of the 'members can invite guests' setting.

35e73109-35c0-4d8e-acc3-d01accf2d47b 729827e3-9c14-49f7-bb1b-9608f156bbb8 passwords for non-administrators and Helpdesk Administrators ge Active Directory to Microsoft Entra cloud provisioning, Microsoft Entra Connect, Pass-through Authenticat 8ac3fc64-6eca-42ea-9e69-59f4c7b60eb2 ccess using Microsoft Entra ID for identity governance scenarios 45d8d3c5-c802-45c6-b32a-1d70b5c1c86c istrative access in the Microsoft 365 Insights app. Ab164584-2435-4160-96b4-c7c466c5c67c e analytical capabilities in Microsoft Viva Insights and run custom gueries 25463356-86×6-4119-6717-06024×207×9 and share dashboards and insights via the Microsoft 365 Insights app. 31/93954-9672-4796-9/2/-873181342424 ge all aspects of the Intune product. 352c62db-5318-420d-8d74-235ffee5d9d5 ge settings for Microsoft Kaizala. 74ef975b-6605-40af-a5d2-b9539d836353 igure knowledge, learning, and other intelligent features. b5a8dcf3-09d5-43a9-a639-8e29ef291470 nize, create, manage, and promote topics and knowledge. 744ec460-397e-42ad-a462-8b3f9747a02c ge product licenses on users and groups. 4d6ac14f-3453-41d0-bef9-a3e0c569773a d manage all aspects of workflows and tasks associated with Lifecycle Workflows in Microsoft Entra ID. 59d46f88-662b-457b-bceb-5c3809e5908f security messages and updates in Office 365 Message Center only ac16e43d-7b2d-40e0-ac05-243ff356ab5b nessages and updates for their organization in Office 365 Message Center only 730c1fb3-7f7d-4f88-86a1-ef1f35c05c1b all migration functionality to migrate content to Microsoft 365 using Migration Manager. signed to this role are added to the local administrators group on Microsoft Entra joined devices 8c8b803f-96e1-4129-9349-20738d9f9652 9f06204d-73c1-4d4c-880a-6edb90606fd8 d manage all aspects warranty claims and entitlements for Microsoft manufactured hardware, like Surface and Hc 1501b317-7653-4ff3-a4b5-203caf33784f d read warranty claims for Microsoft manufactured hardware, like Surface and HoloLens. 281fe777-fb20-4fbb-b7s3-ccebce5b0d96 ge commercial purchases for a company, department or team. d24aef57-1500-4070-84db-2666f29cf966 ge network locations and review enterprise network design insights for Microsoft 365 Software as a Service ap d37c8bed-0711-4417-ba38-b4abe66ce4c2 ge Office apps cloud services, including policy and settings management, and manage the ability to select, unselc 2b745bdf-0803-4d80-aa65-822c4493daac l aspects of organizational branding in a tenant 92×404bf-c945-4b82-9729-b7995754c178 prove, or reject new organizational messages for delivery in the Microsoft 365 admin center before they are se e48338e2-f4bb-4074-8f31-4586f25e205b 507f53e4-4e52-4077-abd3-d2e1558b6ea2 lish, manage, and review the organizational messages for end-users through Microsoft product surfaces. 4ba39ca4-527c-499a-b93d-d9b492c50246 e - not intended for general use. e - not intended for general use e00e864a-17c5-4a4b-9c06-f5b95a8d5bd8 passwords for non-administrators and Password Administrators 366707d0-3263-4727-3be2-8c3s10f13b3e af78dc32-cf4d-46f9-ba4e-4428526346b5 . Il aspects of Microsoft Entra Permissions Management and manage all aspects of Microsoft Dynamics 365, Power Apps and Power Automate 11648597-926c-4cf3-9c36-bcebb0ba8dc ge all aspects of printers and printer connectors 644ef478-e28f-4e28-b3dc-3fdde3aa0b1f er and unregister printers and update printer status. e8cef6f1-e4bd-4ea8-bc07-4b8d950f4477 ss to view, set and reset authentication method information for any user (admin or non-admin) 7he44c8s-sdsf-4e2s-84d6-sh2649e08s13 e8611ab8-c189-46e8-94e1-60213ab1f814 ge role assignments in Microsoft Entra ID, and all aspects of Privileged Identity Management. sian-in and audit reports. 4a5d8f65-41da-4de4-8968-e035b65339cf and manage all aspects of Microsoft Search settings. 0964bb5e-9bdb-4d7b-ac29-58e794862a40 and manage the editorial content such as bookmarks, Q and As, locations, floorplan 8835291a-918c-4fd7-a9ce-faa49f0cf7d9 ecurity information and reports, and manage configuration in Microsoft Entra ID and Office 365 194ae4cb-b126-40b2-bd5b-6091b380977c 5f2222b1-57c3-48ba-8ad5-d4759f1fde6f ecurity information and reports in Microsoft Entra ID and Office 365 5d6b6bb7-de71-4623-b4af-96380a352503 ervice health information and manage support tickets f023fd81-s637-4b56-95fd-791sc0226033 f28a1f50-f6e7-4571-818b-6a12f2af6b6c ge all aspects of the SharePoint service ge all aspects of the Skype for Business product 75941009-915a-4869-abe7-691bff18279e ge the Microsoft Teams service. 69091246-20c8-4a56-aa4d-066075b2a7a8 ge calling and meetings features within the Microsoft Teams service. baf37b3a-610e-45da-9e62-d9d1e5e8914b f70938a0-fc10-4177-9c90-2178f8765737 leshoot communications issues within Teams using advanced tools. fcf91098-03e3-41a9-b5ba-6f0ec8188a12 leshoot communications issues within Teams using basic tools rm management related tasks on Teams certified devices. 3d762c5a-1b6c-493f-843e-55a3b42923d4 w Microsoft Entra or Azure AD B2C tenants 112ca1a2-15ad-4102-995e-45b0bc479a6a ge reports and Adoption Score, but can't access user details 75934031-6c7c-415c-99d7-48dbd49c875c fe930be7-5e62-47db-91af-98c3a49a38b1 ge all aspects of users and groups, including resetting passwords for limited admins e300d3e7-4s2h-4235-3eff-f1c78h36cc38 nd share Virtual Visits information and metrics from admin centers or the Virtual Visits app and configure all aspects of Microsoft Viva Goals. 92b086b3-e367-4ef2-b869-1de128fb986e ge all settings for Microsoft Viva Pulse app. 87761b17-1ed2-4af3-9acd-92a150038160 11451d60-acb2-45eb-a7d6-43d0f0125c13 ion and manage all aspects of Cloud PCs. and manage all aspects of Windows Update deployments through the Windows Update for Business deploym 32696413-001a-46ae-978c-ce0f6b3620d2 810a2642-a034-447f-a5e8-41beaa378541





Microsoft's Privileged Entra ID Roles List [PRIVILEGED]

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- Application Administrator
- Application Developer
- Authentication Administrator
- Authentication Extensibility Administrator
- B2C IEF Keyset Administrator
- Cloud Application Administrator
- Cloud Device Administrator
- Conditional Access Administrator
- Directory Synchronization Accounts
- Directory Writers
- Domain Name Administrator
- External Identity Provider Administrator
- Global Administrator
- · Global Reader

- Helpdesk Administrator
- Hybrid Identity Administrator
- Intune Administrator
- Partner Tier1 Support
- Partner Tier2 Support
- Password Administrator
- Privileged Authentication Administrator
- Privileged Role Administrator
- Security Administrator
- Security Operator
- Security Reader
- User Administrator

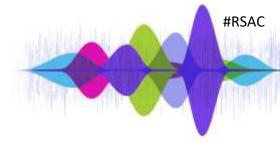
26 roles: https://learn.microsoft.com/en-us/entra/identity/role-based-access-control/permissions-reference





Level 0 Entra ID Roles (5)

Effective Full Admin Rights or Capability to Gain Full Admin to Entra ID



Global Administrator

Full admin rights to the Entra ID, Microsoft 365, and 1-click full control of all Azure subscriptions
 From Azure AD to Active Directory (via Azure) – An Unanticipated Attack Path (2020)

Hybrid Identity Administrator

"Can create, manage and deploy provisioning configuration setup from Active Directory to Microsoft Entra ID using Cloud Provisioning as well as manage Microsoft Entra Connect, Pass-through Authentication (PTA), Password hash synchronization (PHS), Seamless Single Sign-On (Seamless SSO), and federation settings." https://medium.com/tenable-techblog/roles-allowing-to-abuse-entra-id-federation-for-persistence-and-privilege-escalation-df9ca6e58360

Partner Tier2 Support

- "The Partner Tier2 Support role can reset passwords and invalidate refresh tokens for all non-administrators and administrators (including Global Administrators). "

"not quite as powerful as Global Admin, but the role does allow a principal with the role to promote themselves or any other principal to Global Admin."

The Most Dangerous Entra Role You've (Probably) Never Heard Of

Privileged Authentication Administrator

Microsoft: "do not use."
 "Set or reset any authentication method (including passwords) for any user, including Global Administrators. ...
 Force users to re-register against existing non-password credential (such as MFA or FIDO) and revoke remember MFA on the device, prompting for MFA on the next sign-in of all users."

Privileged Role Administrator

"Users with this role can manage role assignments in Microsoft Entra ID, as well as within Microsoft Entra Privileged Identity Management. ...
 This role grants the ability to manage assignments for all Microsoft Entra roles including the Global Administrator role. "





Level 1 Entra ID Roles (1 of 2)

Highly Privileged Rights that have Privilege Escalation Potential Depending on Tenant Configuration or ability to reconfigure the security posture of the tenant

ienant Configuration of	or ability to reconfigure the security posture of the tenant						
Role	Microsoft Description						
Application Administrator	This is a privileged role. Users in this role can create and manage all aspects of enterprise applications, application registrations, and application proxy settings.						
Authentication Administrator	This is a privileged role. Set or reset any authentication method (including passwords) for non-administrators and some roles. Require users who are non-administrators or assigned to some roles to re-register against existing non-password credentials (for example, MFA or FIDO), and can also revoke remember MFA on the device, which prompts for MFA on the next sign-in. Perform sensitive actions for some users.						
Domain Name Administrator	This is a privileged role. Users with this role can manage (read, add, verify, update, and delete) domain names. Can be used in federation attacks.						
Microsoft Entra Joined Device Local Administrator	During Microsoft Entra join, this group is added to the local Administrators group on the device.						
Cloud Application Administrator	This is a privileged role. Users in this role have the same permissions as the Application Administrator role, excluding the ability to manage application proxy. This role grants the ability to create and manage all aspects of enterprise applications and application registrations.						
Conditional Access Administrator	This is a privileged role. Users with this role have the ability to manage Microsoft Entra Conditional Access settings.						
Directory Synchronization Accounts	This is a privileged role. Do not use. This role is automatically assigned to the Microsoft Entra Connect service, and is not intended or supported for any other use. Privileged rights: Update application credentials, Manage hybrid authentication policy in Microsoft Entra ID, Update basic properties on policies, & Update credentials of service principals						
Directory Writers	This is a privileged role. Users in this role can read and update basic information of users, groups, and service principals. Privileged rights: Create & update OAuth 2.0 permission grants, add/disable/enable users, Force sign-out by invalidating user refresh						



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tokens, & Update User Principal Name of users.

Level 1 Entra ID Roles (2 of 2)

Role	Microsoft Description
Exchange Administrator	Users with this role have global permissions within Microsoft Exchange Online. Trimarc flags this role since it is a role that threat actors target.
External Identity Provider Administrator	This is a privileged role. This administrator manages federation between Microsoft Entra organizations and external identity providers. With this role, users can add new identity providers and configure all available settings (e.g. authentication path, service ID, assigned key containers). This user can enable the Microsoft Entra organization to trust authentications from external identity providers.
Helpdesk Administrator	This is a privileged role. Users with this role can change passwords, & invalidate refresh tokens, Invalidating a refresh token forces the user to sign in again.
Intune Administrator	This is a privileged role. Users with this role have global permissions within Microsoft Intune Online, when the service is present. Additionally, this role contains the ability to manage users and devices in order to associate policy, as well as create and manage groups. Privileged rights: Read Bitlocker metadata and key on devices
Password Administrator	This is a privileged role. Users with this role have limited ability to manage passwords.
Partner Tier1 Support	This is a privileged role. Do not use. The Partner Tier1 Support role can reset passwords and invalidate refresh tokens for only non-administrators. Privileged rights: Update application credentials, Create and delete OAuth 2.0 permission grants, & read and update all properties
Security Administrator	This is a privileged role. Users with this role have permissions to manage security-related features in the Microsoft 365 Defender portal, Microsoft Entra ID Protection, Microsoft Entra Authentication, Azure Information Protection, and Microsoft Purview compliance portal.
User Administrator	This is a privileged role. Can reset passwords for users.





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Azure Privilege Escalation via Service Principal Abuse





Andy Robbins - Follow

Published in Posts By SpecterOps Team Members · 10 min read · Oct 12, 2021

			Can a Us	ser with R	ole in Col	umn A res	set a pass	word for	a user wit	in a Role II	n Row 2?			
	(No Role)	Global Administrator	Privileged Authentication Administrator	Helpdesk Administrator	Authentication Administrator	User Administrator	Password Administrator	Directory Readers	Guest Inviter	Message Center Reader	Privileged Role Administrator	Reports Reader	Groups Administrator	(Any Other Role)
Global Administrator	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Privileged Authentication Administrator	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Helpdesk Administrator	Yes	No	No	Yes	Yes	No	No	Yes	Yes	Yes	No	Yes	No	No
Authentication Administrator	Yes	No	No	Yes	Yes	No	No	Yes	Yes	Yes	No	Yes	No	No
User Administrator	Yes	No	No	Yes	No	Yes	No	Yes	Yes	Yes	No	Yes	No	No
Password	Yes	No	No	No	No	No	Yes	Yes	Yes	No	No	No	No	No

Can a Hear with Pole in Column A reset a password for a user with a Pole in Pow 22

https://posts.specterops.io/azure-privilege-escalation-via-service-principal-abuse-210ae2be2a5





Level 0 Applications

Effective Full Admin Rights or Capability to Gain Full Admin to Entra ID



Directory.ReadWrite.All

 "Directory.ReadWrite.All grants access that is broadly equivalent to a global tenant admin." *

AppRoleAssignment.ReadWrite.All

 Allows the app to manage permission grants for application permissions to any API & application assignments for any app, on behalf of the signed-in user. This also allows an application to grant additional privileges to itself, other applications, or any user.

RoleManagement.ReadWrite.Directory

 Allows the app to read & manage the role-based access control (RBAC) settings for the tenant, without a signed-in user. This includes instantiating directory roles & managing directory role membership, and reading directory role templates, directory roles and memberships.

Application.ReadWrite.All

 Allows the calling app to create, & manage (read, update, update application secrets and delete) applications & service principals without a signed-in user. This also allows an application to act as other entities & use the privileges they were granted.





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Entra ID Security Posture





Unfortunate Defaults





Users:

Can register applications

Can consent to applications

Can create new tenants

Can join/hybrid join devices to the tenant & no MFA is required



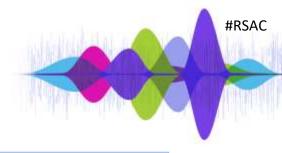
Guests/External Accounts

Guests have the same view rights as users Guests can invite other guests





Entra ID Common Security Issues



Privileged Account Issues

- Standard user accounts are members
- Service Accounts / Service Principals are members
- · Account(s) authenticate from user workstations
- Using PIM, but all/most are permanently active, not eligible.
- MFA not configured on highly privileged role members

Applications with Highly Privileged Permissions

- · Highly privileged applications (Trimarc Level 0) with standard user account as owner
- Standard user account in Application Administrator and/or Cloud Application Administration role(s).

Group Nesting

Role Assignable Groups in highly privileged roles (Trimarc Level 0)

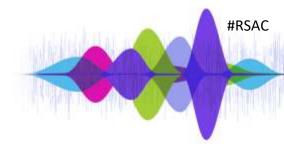
Partner Access - Delegated Access Permissions

- · Global Administrator
- Helpdesk Administrator





Highly Privileged User Accounts



St... End time

9/... Permanent

Permanent

Permanent

Permanent

Permanent

Permanent

Permanent

9/... Permanent

9/... Permanent

Direct

Direct

Direct

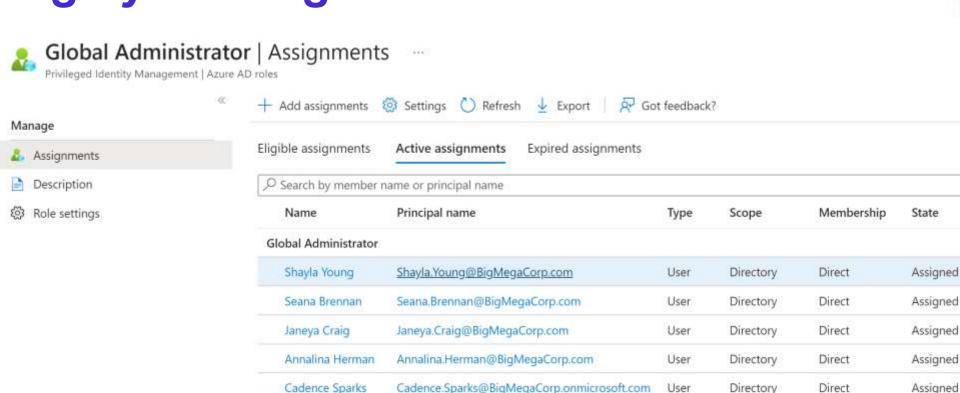
Direct

Assigned

Assigned

Assigned

Assigned



sean@bigmegacorp.com

Chrissa.Bradley@BigMegaCorp.com

Aafiyah.Rodgers@BigMegaCorp.com

Kenya.Bryan@BigMegaCorp.com

Showing 1 - 9 of 9 results.

Aafiyah Rodgers

Sean Metcalf

Chrissa Bradley

Kenya Bryan





User

User

User

User

Directory

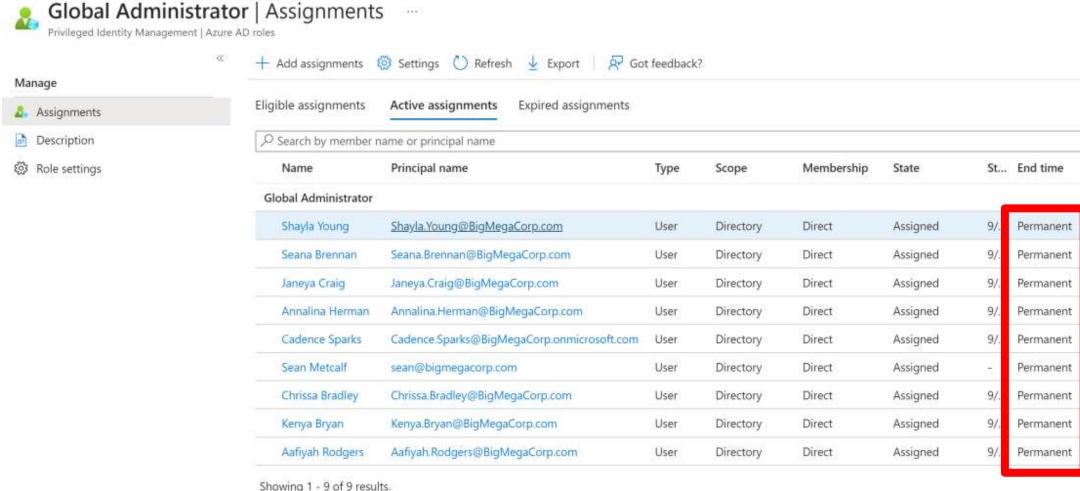
Directory

Directory

Directory

PIM Members are Permanent, Not Eligible

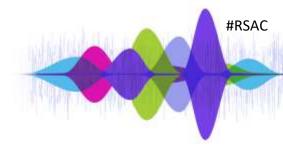








Admin Accounts without MFA



```
The Following 5 Global Admin Account(s) have MFA Successfully Configured:
                                    IsMfaCapable IsMfaRegistered IsPasswordlessCapable MethodsRegistered
UserDisplayName UserPrincipalName
Sean Metcalf
               sean@bigmegacorp.com
                                                                                   True {microsoftAuthenticatorPasswordless,
                                             True
                                                             True
The Following 7 Global Admin Account(s) don't have MFA Configured:
Cadence.Sparks@BigMegaCorp.onmicrosoft.com
Kenya.Bryan@BigMegaCorp.com
Janeya.Craig@BigMegaCorp.com
Annalina.Herman@BigMegaCorp.com
Seana.Brennan@BigMegaCorp.com
Chrissa.Bradley@BigMegaCorp.com
Shayla.Young@BigMegaCorp.com
```





Role Assignable Groups (RAGs)

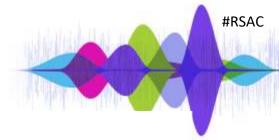
- #RSAC
- Role Assignable Groups are Security or Microsoft 365 group with the isAssignableToRole property set to true and cannot be dynamic.
- Created to solve the potential issue where groups are added to an Entra ID role and a group admin could modify membership.
- Only Global Administrators or Privileged Role Administrators can create Role Assignable Groups and manage them (membership).
- Role Assignable Group owners can manage them.
- There is an application permission (Graph:RoleManagement.ReadWrite.Directory) that provides management rights as well.
- 500 role-assignable groups maximum in an Entra ID tenant (creation maximum).

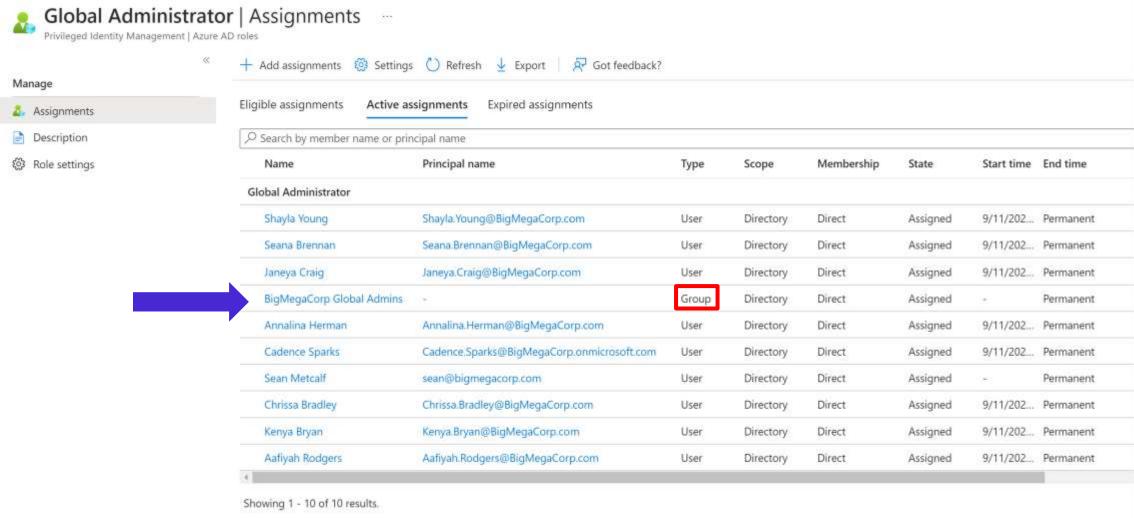
NOTE: Only a Privileged Authentication Administrator or a Global Administrator can change the credentials or reset MFA or modify sensitive attributes for members & owners of a role-assignable group.





Privileged Roles with Group Nesting

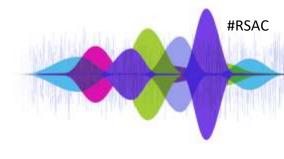


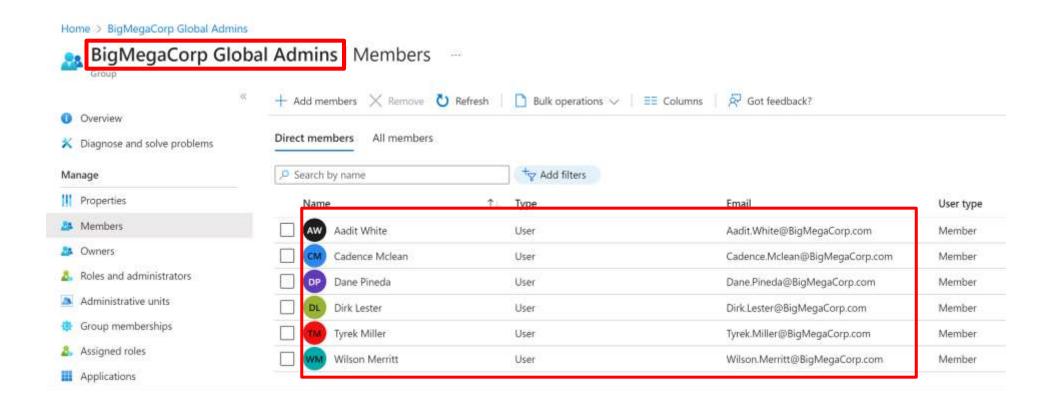






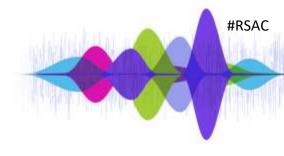
Group Nesting – Have to Open Groups

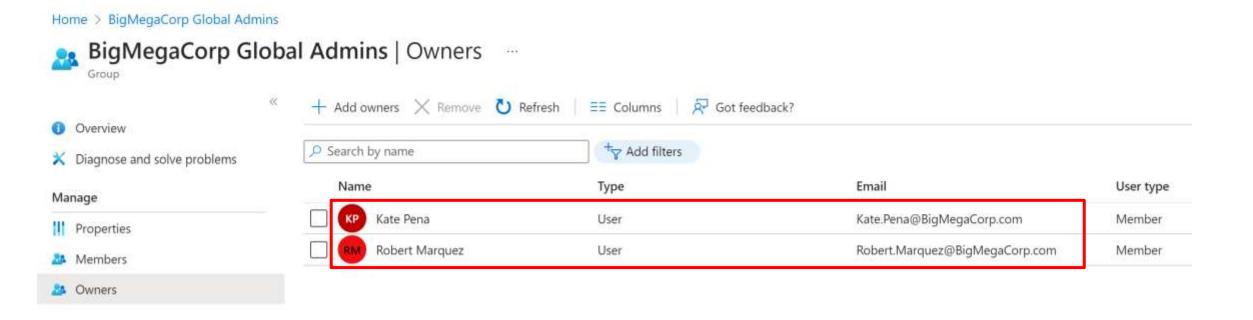






Role Assignable Group Owners







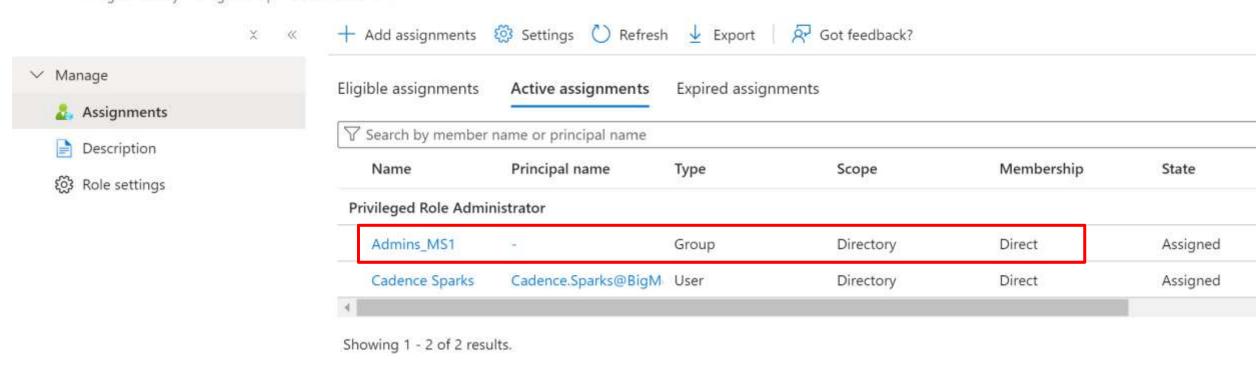
What if the Role Assignable Group is in a Different Tenant?





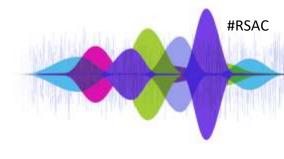
Privileged Role Administrator | Assignments

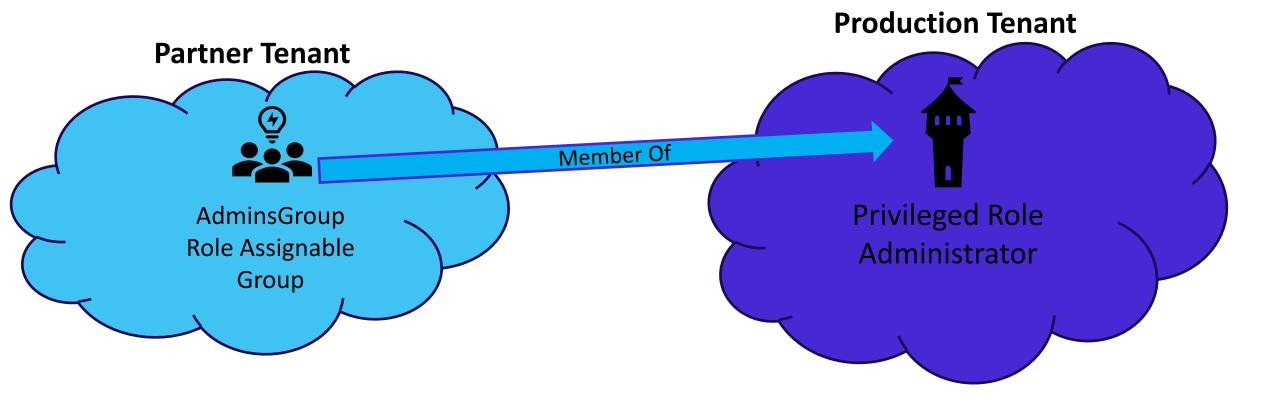
Privileged Identity Management | Microsoft Entra roles





Privileged Role with Group in another Tenant









Role Group Member Not Shown in PowerShell





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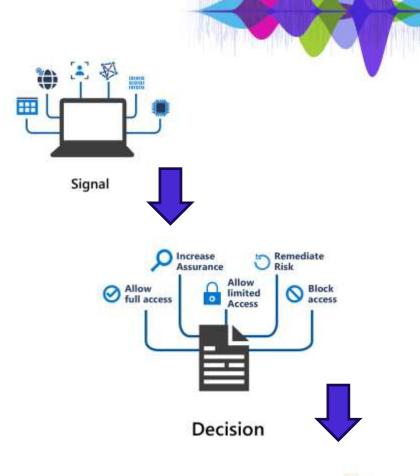
Conditional Access Policies

Policies apply after (first-factor) authentication

Requires P1 licensing

Rules based on:

- Who is connecting?
- Where are they connecting (from)?
- What app and/or device is connecting?
- When does this apply?





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Conditional Access | Policies ...

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	Microsoft Entra ID		
		0	«
0	Overview		
朣	Policies		
P	Insights and reporting		
×	Diagnose and solve problems		
V	Manage		
	♦ Named locations		
	Custom controls (Preview	()	
	Terms of use		

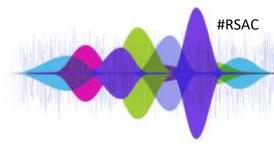
- VPN connectivity
 Authentication contexts
 Authentication strengths
- > Monitoring
- > Troubleshooting + Support

Aicrosoft Entra Cor	ditional Access policies are used to apply access controls to ke	eep your organizat	tion secure. Learn more 🖸	
All policies	Microsoft-managed policies			
8	₩ 0			
Total	out of 8			
		Y Add fil	ter	
8 out of 8 policies	found			
Policy name		State	Creation date	Modified date
CA001: Require m	ulti-factor authentication for admins	Report-only	5/29/2022, 11:10:03 PM	5/29/2022, 11:19:17 PM
CA003; Block lega	cy authentication	Report-only	5/29/2022, 11:10:15 PM	
CA005: Require m	ulti-factor authentication for guest access	Report-only	5/29/2022, 11:10:28 PM	
CA007: Require m	ulti-factor authentication for risky sign-ins	Report-only	5/29/2022, 11:10:39 PM	
	t or hybrid Azure AD joined device or multifactor authentic	Report-only	1/19/2024, 3:13:25 PM	
Require complian				
10 10	or authentication for Azure management	Report-only	1/19/2024, 3:13:13 PM	
Require multifacti	or authentication for Azure management or authentication for all users	Report-only Report-only	1/19/2024, 3:13:13 PM 1/19/2024, 3:12:52 PM	





Common Conditional Access Policies





Require users to use MFA when connecting outside of the corporate network



Require MFA for users with certain administrative roles



Block legacy authentication (username & password auth)



Block/Grant access from specific locations





CA Policy Gap #1: Users Require MFA Only Outside of Corp Network

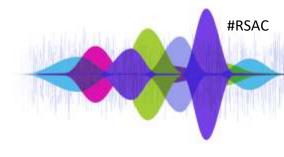
- CAP requires users to MFA when they are working remotely (not on the corporate network or connected via VPN)
- Assumes no attacker would be on the corporate network
- Attacker can use username/password without having to MFA
- Fun Fact: Attackers love SSO!



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CA Policy Gap #2: Admins don't require MFA

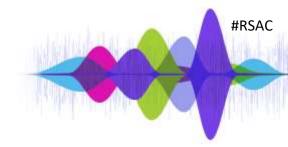


- MFA is required for certain users to access specific applications
- However, there is no CAP that requires MFA for Admins
- Or... CAP only requires members of a few roles use MFA
- Attacker can use username/password without having to MFA
- Fun Fact: Attackers love SSO!



CA Policy Gap #3: Exclusions

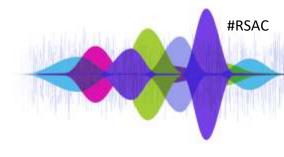
- CAP includes several security controls
 - MFA required
 - AAD Joined &Compliant device
 - Location based access
- However, there are exclusions:
 - Admins
 - VIPs
 - Executives
 - HR
 - Etc
- This creates a significant gap in security posture
- Attackers love being excluded from security controls!







Microsoft Provided Conditional Access Policies





Baseline Policies



Conditional Access Templates



Microsoft Managed Policies

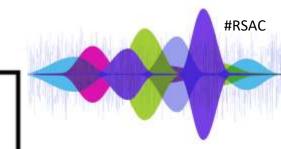




Baseline Policies



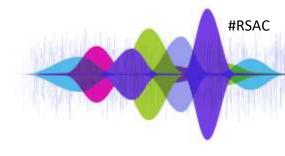
Security Defaults

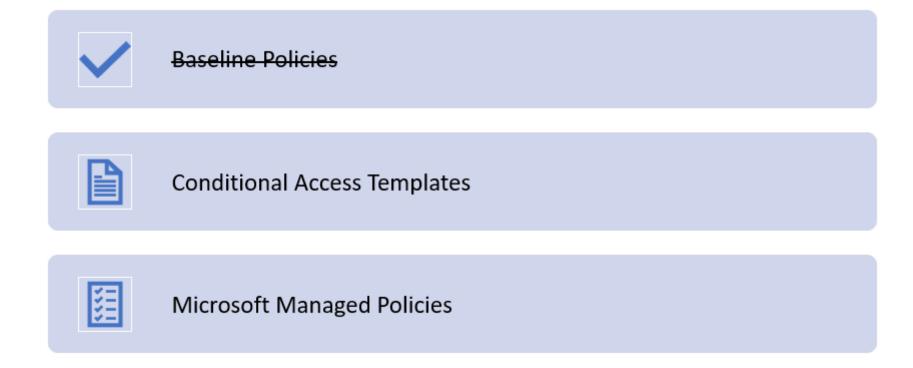






Microsoft Provided Conditional Access Policies







Microsoft Managed Policies (MMP)

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- Deployed automatically in reporting mode
- Modification is limited:
 - Exclude users
 - Turn on or set to Report-only mode
 - Can't rename or delete any Microsoft-managed policies
 - Can duplicate the policy to make custom versions
- Microsoft might update these policies in the future
- MMPs turn on (set to enabled) 90 days after introduced to the tenant
- Currently focuses on 3 areas:
 - MFA for <u>admins</u> accessing Microsoft <u>Admin Portals</u>
 - MFA for <u>per-user MFA</u> configured on users
 - MFA and reauthentication for <u>risky sign-ins</u>

https://learn.microsoft.com/en-us/entra/identity/conditional-access/managed-policies



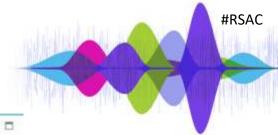


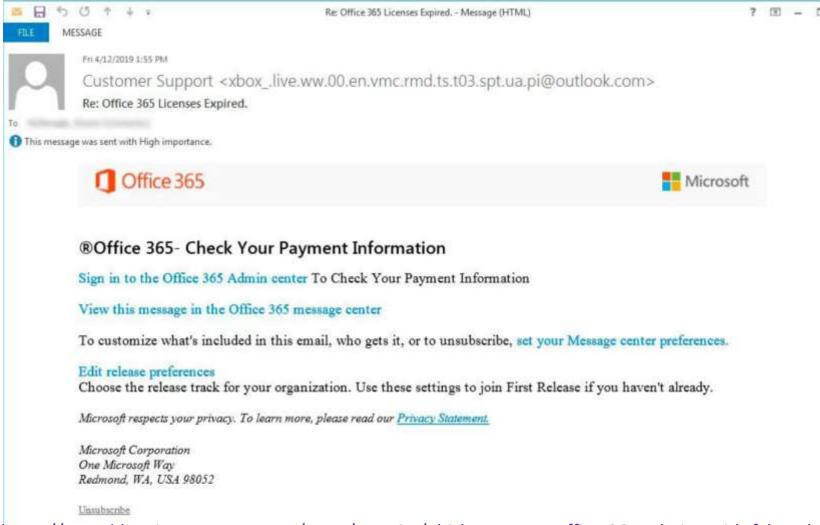


Attacking Entra ID



Phishing for Admins



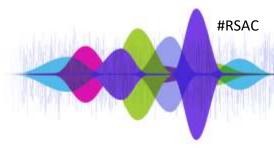


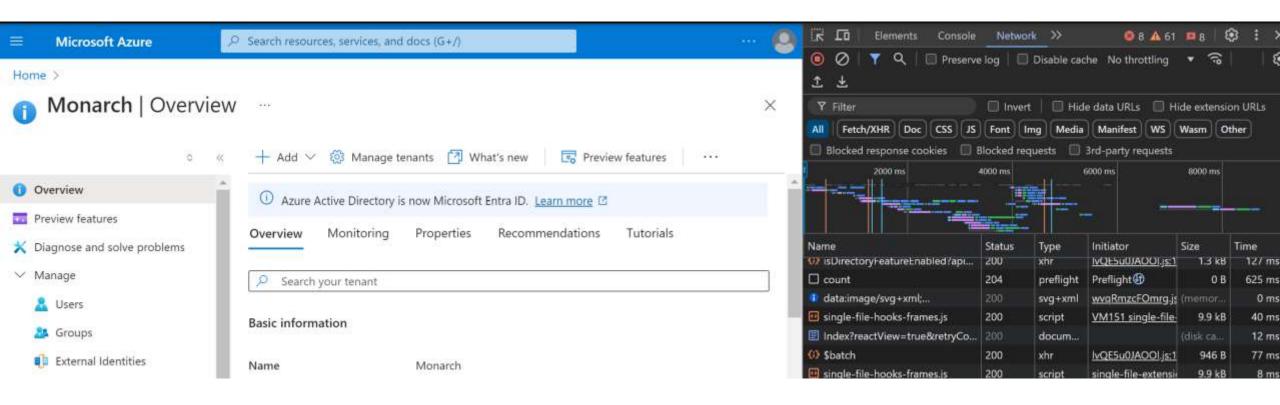
https://www.bleepingcomputer.com/news/security/phishers-target-office-365-admins-with-fake-admin-alerts/





Stealing Tokens from the Web Browser

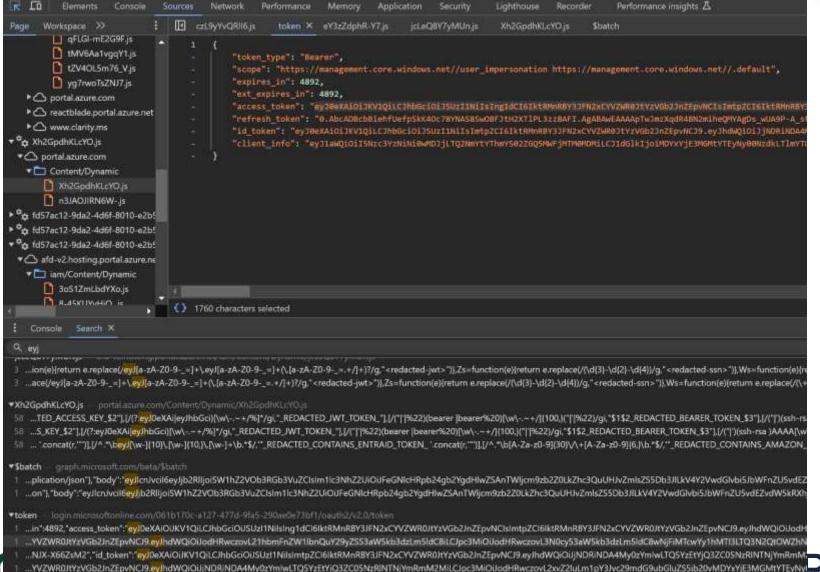








Stealing Tokens from the Web Browser



.Gr-VaMvO". "client_info": "ev]1aWGiGiI5Nzc3YzNiNi0wMDJjLTQ2NmYtYThmYS02ZGQ5MWF;MTM0MDMiLCJ1dGlkljoiMDYxYjE3MGMtYTEyNy00NzdkLTlmYTUtMjkwYWUwZTczYmYxln0"]

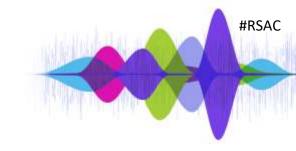




#RSAC

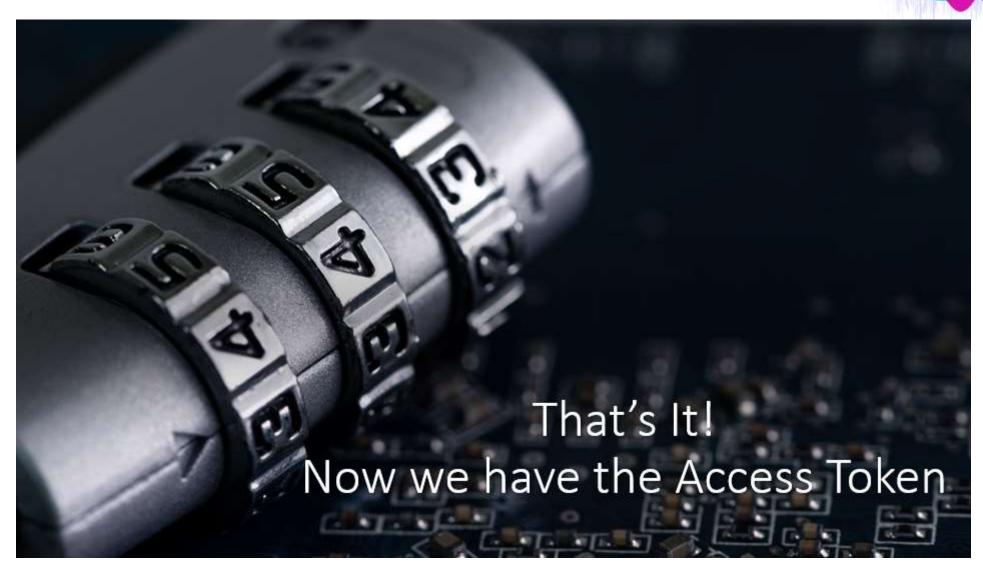
Stealing Access Token from the Web Browser







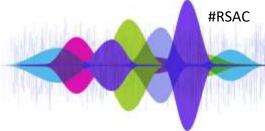






#RSAC

Stealing Tokens from the Web Browser





v0.9.3 by @DrAzureAD (Nestori Syynimaa)

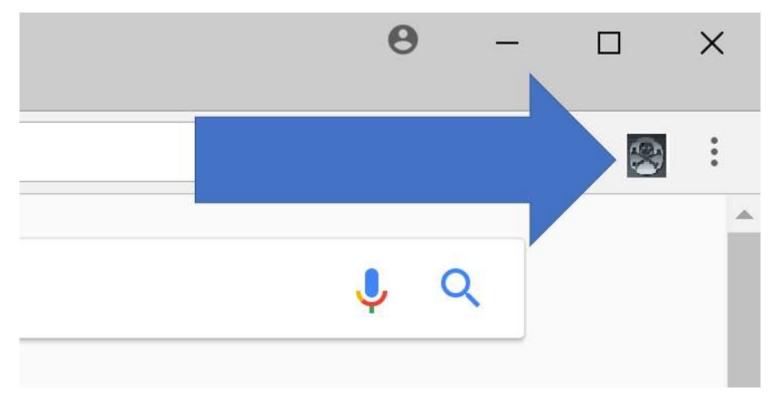


Special THANK YOU to Dr AzureAD himself, Dr. Nestori Syynimaa for his help with this section!



Token Theft with Browser Extension









The recent attack campaign targeting browser extensions shows that malicious browser extensions are the next frontier for identity attacks.

browser-extensions-are-the-next-frontier-for-identity-attacks /

More than 2.6 million users across thousands of organizations worldwide learned this the hard way, just before the New Year, when they found out that their cookies and identity data were exposed as part of an attack campaign exploiting browser extensions.

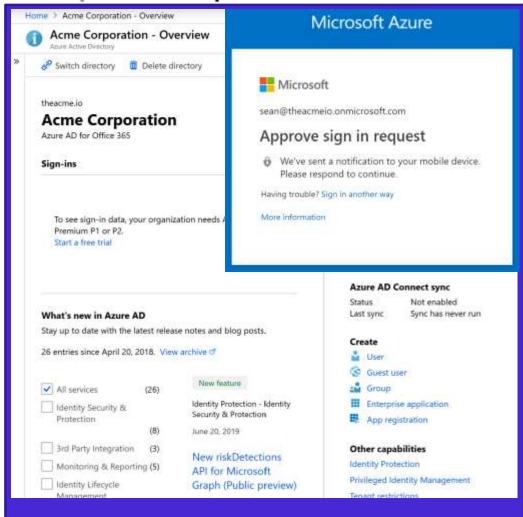




#RSAC

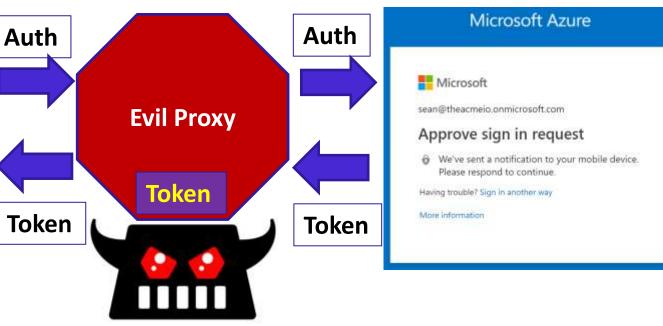
Token Theft with evilginx

https://aad.portalazure.com/





https://aad.portal.azure.com/



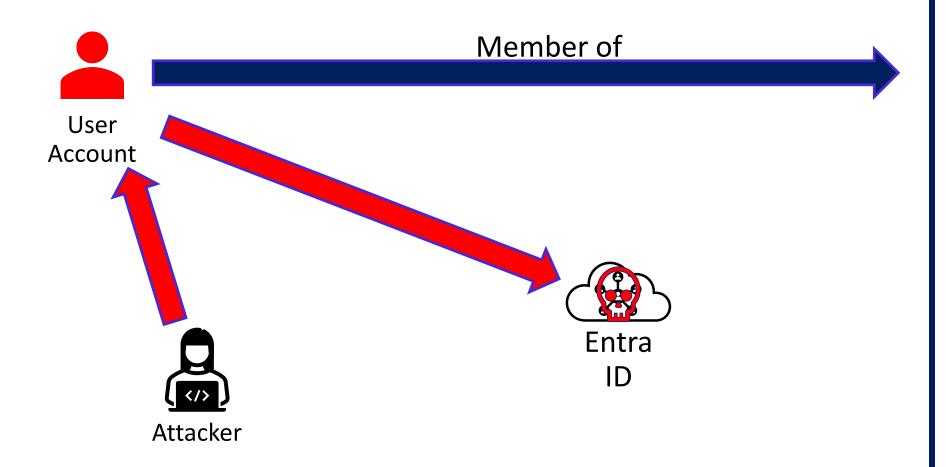
https://github.com/kgretzky/evilginx2

evilginx.





Overprivileged User









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Application Escalation



PS C:\Data_MCSA> get-azureadpspermissions -ApplicationPermissions select ClientObjectID,ClientDisplayName,ResourceDisplayName,Permission					
ClientObjectId	ClientDisplayName	ResourceDisplayNam	e Permission		
9211cb77-c065-4fd9-a80b-bb3a3015caee 9211cb77-c065-4fd9-a80b-bb3a3015caee 9211cb77-c065-4fd9-a80b-bb3a3015caee 01438f2c-8d6d-4f11-9f76-f179fd3246fa 01438f2c-8d6d-4f11-9f76-f179fd3246fa 01438f2c-8d6d-4f11-9f76-f179fd3246fa 01438f2c-8d6d-4f11-9f76-f179fd3246fa	Lots 'o Privs! Overpermissioned App Overpermissioned App Overpermissioned App Overpermissioned App	Microsoft Graph	DelegatedPermissionGrant.ReadWrite.All Directory.ReadWrite.All Application.ReadWrite.All AppRoleAssignment.ReadWrite.All DelegatedPermissionGrant.ReadWrite.All Directory.ReadWrite.All RoleManagement.ReadWrite.Directory		



Application Escalation: Find the App Owner

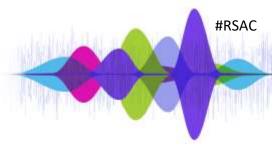


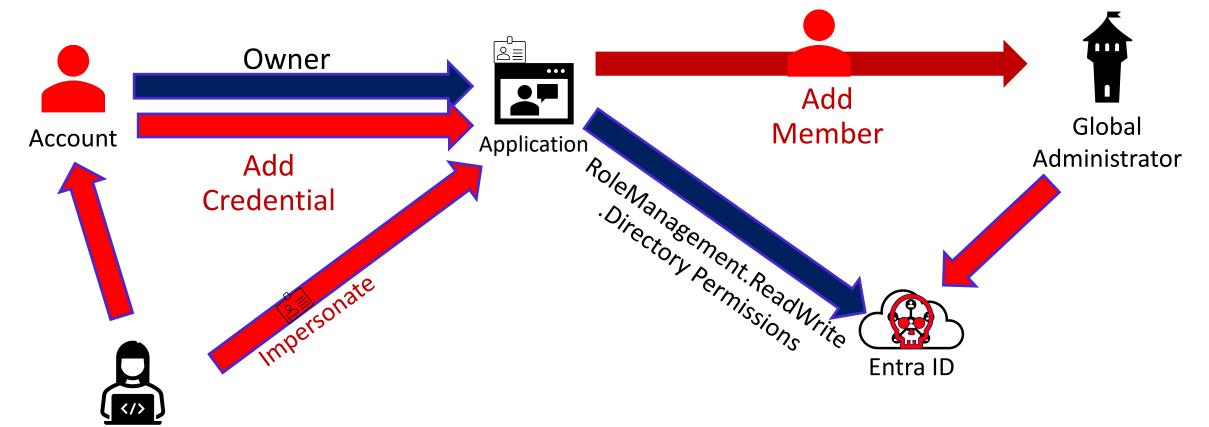
PS C:\Data_MCSA> Get-AzureADApplicat	tion -SearchStr	ing 'overpermissioned'		
ObjectId	AppId		DisplayName	
fbe4ea6c-0ae4-46b2-a6f0-5f96e3f4858f	5e356a56-f302-4	1987-923a-0e282ea31d39	Overpermissioned App	
PS C:\Data_MCSA> get-azureadapplicat	tionowner -Objec	ctId 'fbe4ea6c-0ae4-46b	o2-a6f0-5f96e3f4858f'	
	100 000	ctId 'fbe4ea6c-0ae4-46b UserPrincipalName	o2-a6f0-5f96e3f4858f'	UserType





Compromise Entra ID through Application Permissions







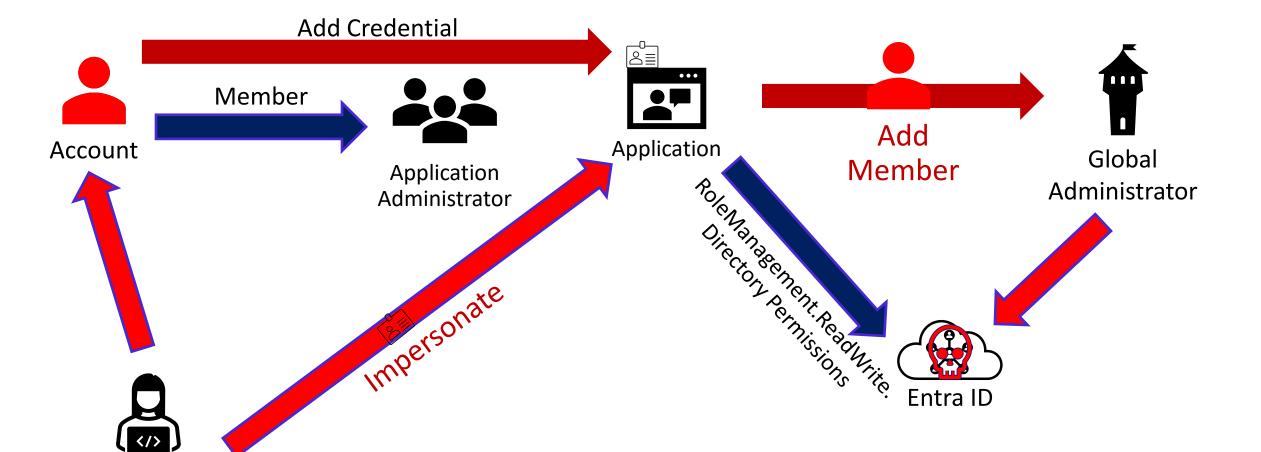
Attacker



Compromise Azure AD through Application Permissions

Attacker

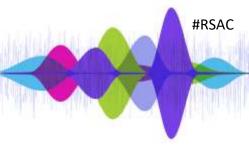
TRUSTEDSEC

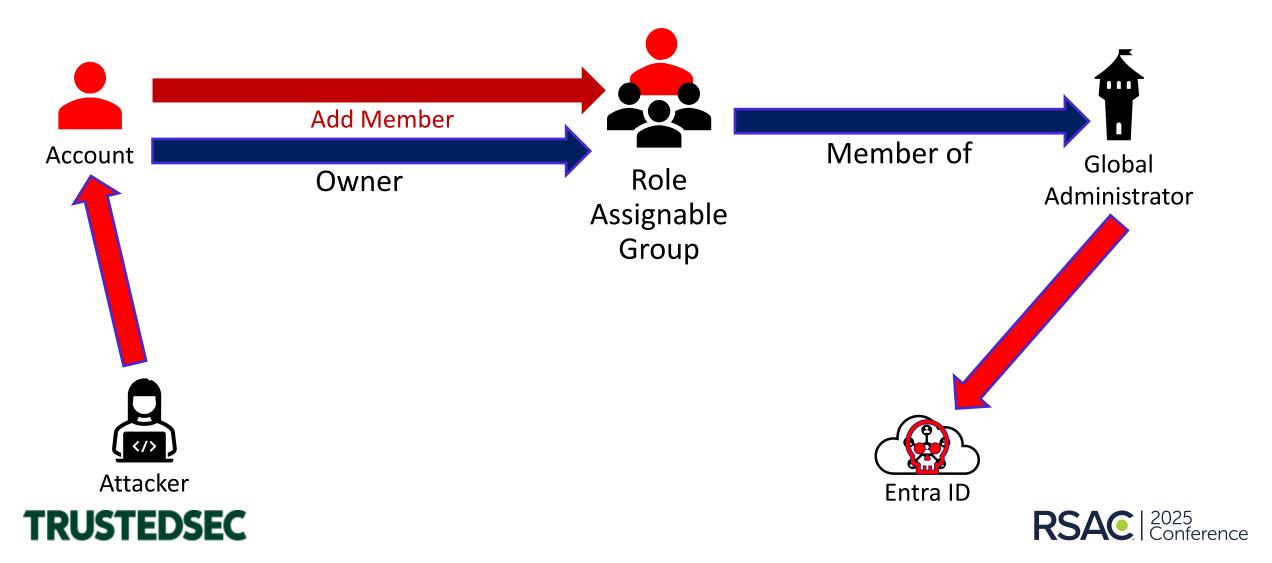




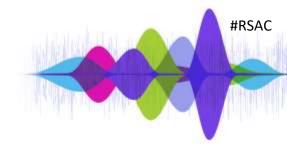
#RSAC

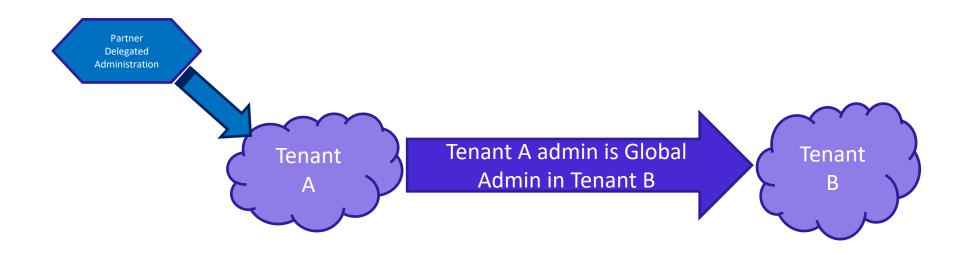
Compromise Azure AD through Role Assignable Group Owner Rights





Solarigate "Tenant Hopping"



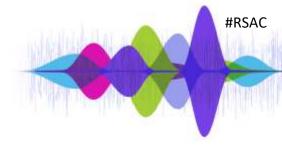


- Tenant Hopping (patent pending) is when an attacker compromises one tenant to jump to another, often with privileged rights.
- Similar to trust hopping in Active Directory.
- Solarigate attackers leveraged partner connections.





Partner Relationships – aka Delegated Administration



- A configured partner can have admin rights to a customer tenant ("delegated administration").
- This is provided when the partner requests access to the customer environment.
- When the customer accepts this request:
 - "Admin agent" role in partner tenant is provided effective "Global Administrator" rights to customer tenant.
 - "Helpdesk Agent" role in partner tenant is provided effective "Helpdesk Administrator" (Password Administrator) rights to customer tenant.
 - These are the <u>only options</u>.
 - They **apply to all customer environments** there is no granular configuration.
- A partner with dozens of customers will result in all partner accounts in these groups having elevated rights in all customer environments.

Shift to granular delegated admin privileges (GDAP) ASAP!

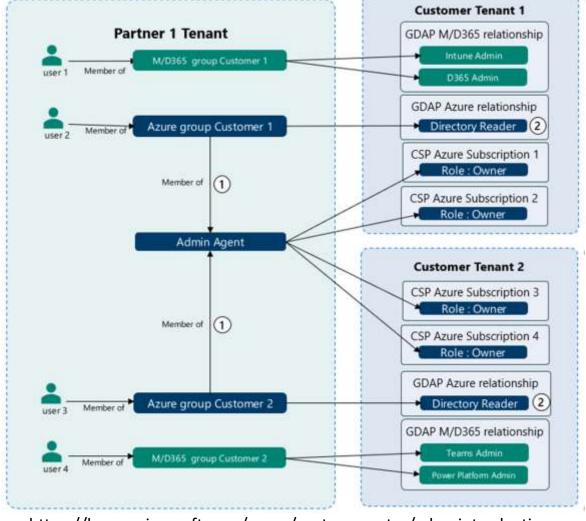
Check Partner Configuration for your tenant here:

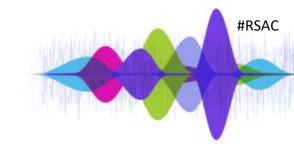
https://portal.azure.com/#view/Microsoft AAD IAM/ActiveDirectoryMenuBlade/~/PartnerRelationships





Move to Granular Delegated Admin Privileges (GDAP)

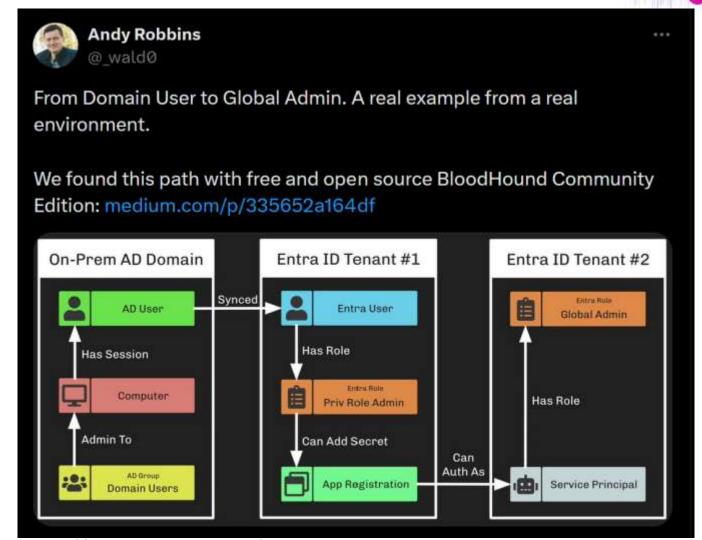






What about Admins Synchronized from

On-Prem AD?



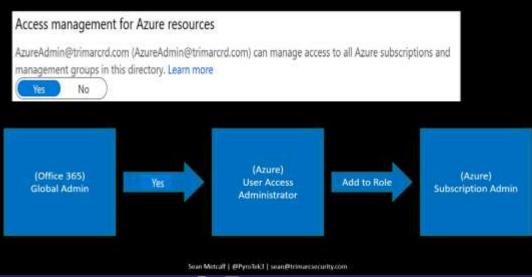
https://posts.specterops.io/hybrid-attack-paths-new-views-and-your-favorite-dog-learns-an-old-trick-335652a164df?gi=543e6e7a310d





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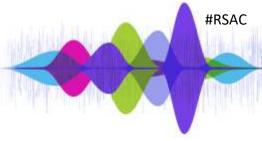
From Entra ID to Azure to AD

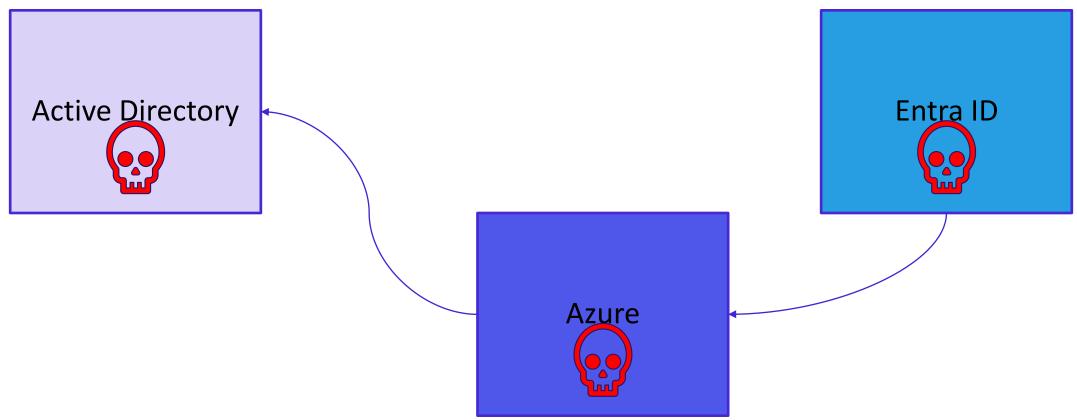


Many Voices.
One Community.

Attack Scenario: Azure AD to Azure to AD #RSAC **Attacker** Entra ID Admin Global No Azure Account Administrator Active Role Directory Virtual Machine **User Access** Run command Domain Contributor On-Prem Administrator Controller DCs **TRUSTEDSEC** RSAC | 2025 | Conference

Attack Scenario: Entra ID to Azure to AD

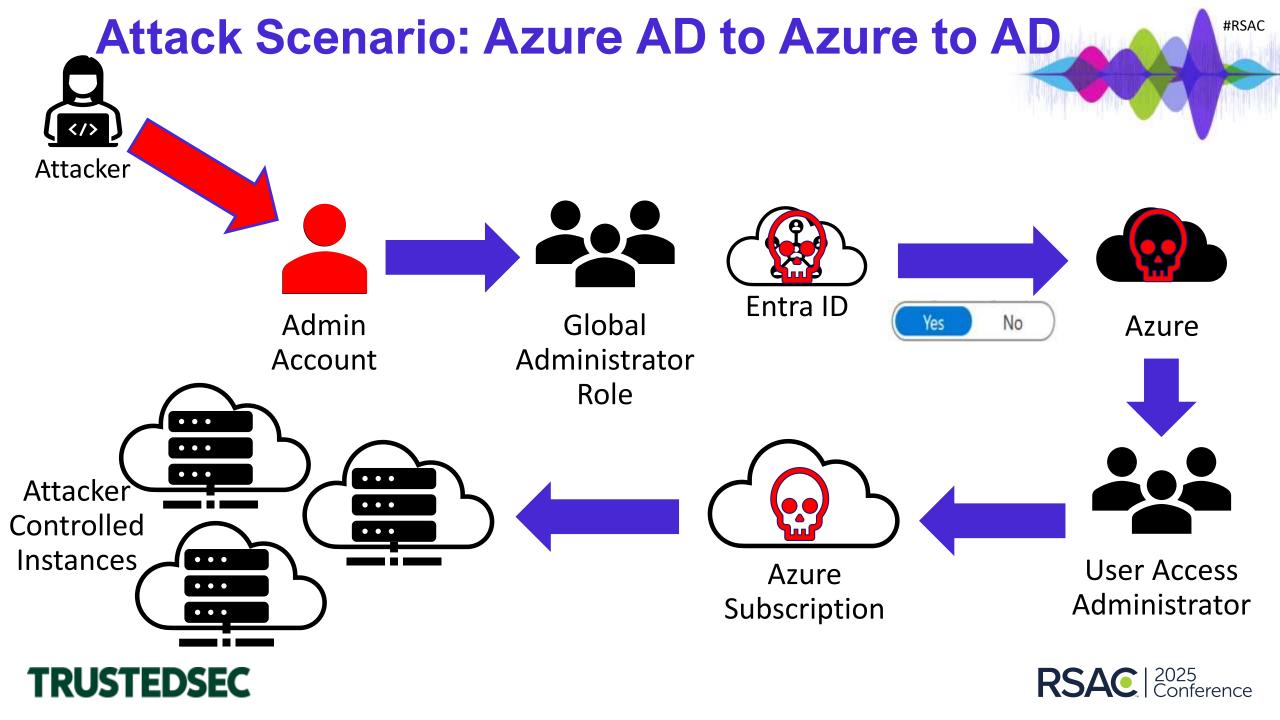




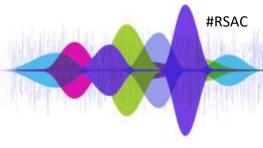
Compromise AD (& Azure & Entra ID) by getting Global Admin rights in Entra ID







Attack Scenario Key Takeaways

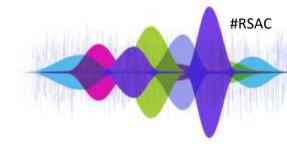


- An attacker that can gain admin rights to one environment can often pivot to another.
- Hosting Domain Controllers on virtual infrastructure such as cloud requires trust in that platform as well as additional protections around compromised accounts & monitoring.
- Jumping from Entra ID to Azure to on-prem Active Directory is possible given how many enterprises are configured and if the Global Admins group isn't well protected or standard user accounts have the ability to elevate.
- The attacker could also use resources in your subscriptions for their purposes such as spinning up new virtual instances for attacker systems or bitcoin mining.
- Control of subscription access enables the attacker to launch ransomware against virtual instances.





Attack Scenario Key Mitigation



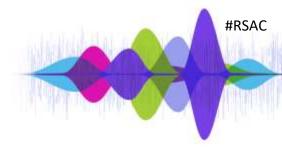
- Severely restrict membership in Global Admins.
- Use PIM (eligible) for Global Admins & require MFA.
- Once Elevated Access is applied to an account, removing role membership has no impact. Elevated Access must be removed separately.
- Monitor the Entra ID Audit Log for Azure RBAC (Elevated Access) activity.
- Closely monitor membership of the "User Access Administrator" Azure role (root level).
- Remove any account with Elevated Access that doesn't require it.
- Place Domain Controllers and other sensitive systems in another Azure tenant.

https://learn.microsoft.com/en-us/azure/role-based-access-control/elevate-access-global-admin





Managing Elevated Access



Access management for Azure resources

Sean Metcalf (sean@bigmegacorp.com) can manage access to all Azure subscriptions and management groups in this tenant.

Learn more [2]



Νo



You have 2 users with elevated access. Microsoft Security recommends deleting access for users who have unnecessary elevated access.

Manage elevated access users

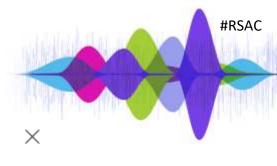
https://portal.azure.com/#view/Microsoft AAD IAM/ActiveDirectoryMenuBlade/~/Properties





Managing Elevated Access

Users with elevated access

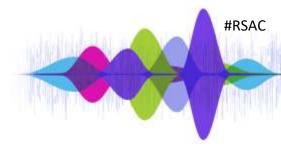


When a user elevates their access, they are assigned the <u>User Access Administrator</u> role at root scope. This role assignment allows the user to manage access to all resources in this tenant. You should take immediate action and remove all role assignments with elevated access. To remove these role assignments, you must also have elevated access. <u>Learn more</u>

(i) 2 users have elevated access in this tenant.					
Remove					
Search by name or email					
Name	Scope	Role			
Name Jack Johnson jjohnson@bigmegacorp.com	Scope Root	Role User Access Administrator			







		/23/2025 - 4/23/2025	Service : Azure RBAC (Elevated Access) Activity : All Reset filter	rs
Directory Custom S Date ↓	Service	Category	Activity	Status
4/23/25, 12:07:	Azure RBAC (Elevated Access)	AzureRBACRoleM	User has elevated their access to User Access Administrator for their Azure Resources	Success

https://portal.azure.com/#view/Microsoft_AAD_IAM/ActiveDirectoryMenuBlade/~/Audit





Show dates as: Local

Activity Type

Correlation ID

Category

Azure Resources

27ce1bd3-1f30-4542-9a84-37affa752059

User has elevated their access to User Access Administrator for their

Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36

(KHTML, like Gecko) Chrome/135.0.0.0 Safari/537.36

AzureRBACRoleManagementElevateAccess

success

Date range: 4/23/202 Status

Directory Custom Security

Add filter

4/23/25, 12:07:...

Date ↓

Service Cate

Azure RBAC (Elevated Access)

User Agent

Status reason

Initiated by (actor)

User

Display Name

Object ID

Type

5f78476c-eef1-4284-a8c3-

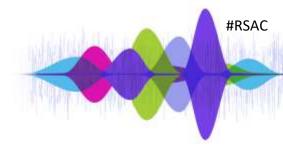
IP address

User Principal Name

sean@bigmegacorp.com







4/23/25, 4:27:	4 Azure RBAC (Ele	vated Access) AzureRB	ACRoleM The	role assignment of User A	Access Administrator	has been remov	ed from the user	Success
Date ↓	Service	Categor	y Acti	vity				Status
Directory	Custom Security							
Add filter	Show dates as: Local	Date range: Last 24 hours	Service : Azure RI	BAC (Elevated Access)		Activity: All	√ Reset filters	





Show dates as: Local

Activity Type

Correlation ID

Category

The role assignment of User Access Administrator has been removed from the user

035bc6a5-2f9c-455f-9540-ca43f9bae88c

Azure RBACRole Management Elevate Access

Status success

Status reason

User Agent

Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36

(KHTML, like Gecko) Chrome/135.0.0.0 Safari/537.36

Directory Custom Security

Add filter

Initiated by (actor)

Date ↓ Service Category

Date range: Last 24 hours

4/23/25, 4:27:4... Azure RBAC (Elevated Access) AzureRBA

Type

User

Display Name

Object ID 5f78476c-eef1-4284-a8cî

IP address

User Principal Name sean@bigmegacorp.com

TRUSTEDSEC

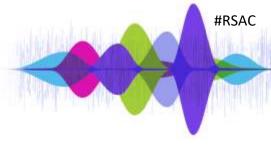


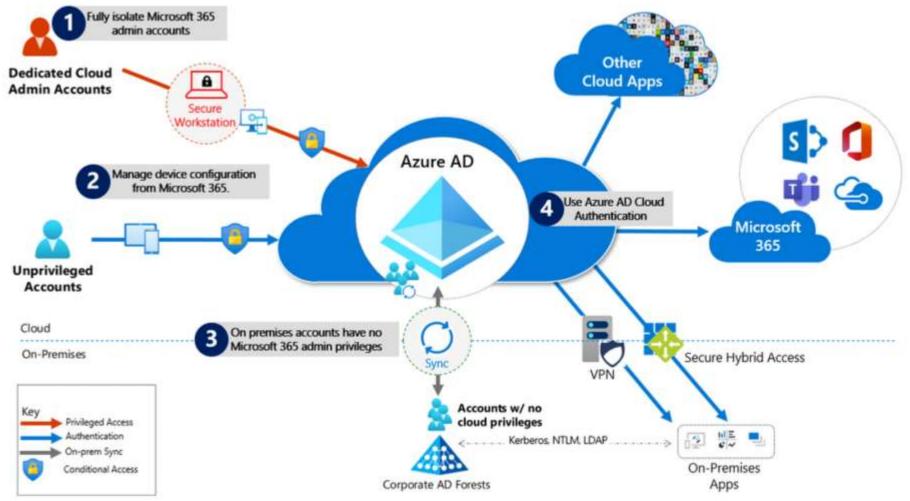
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Securing Entra ID Administration



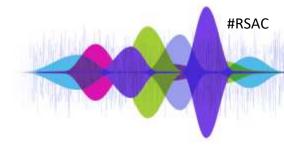
Securing Entra ID







Securing Entra ID - Microsoft Summary



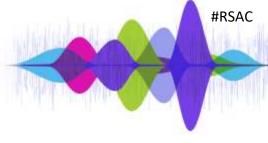
- Fully Isolate Entra ID & Microsoft 365 admin accounts They should be:
 - Created in Entra ID.
 - Required to use Multi-factor authentication (MFA).
 - Secured by conditional access.
 - Accessed only by using Azure Managed Workstations.

There should be no on-prem accounts with highly privileged Entra ID rights.





On-Prem: Entra Password Protection



- Prevent users from selecting known bad passwords
- Start in audit mode to get an idea how bad it is

Custom smart lockout					
Lockout threshold •	10				
Lockout duration in seconds 6	70				
Custom banned passwords					
Enforce custom list 👩	Yes	Ν	No		
Custom banned password list 6	seahawks mariners sounders redmond washington				
Password protection for Windows Server Active Directory					
Enable password protection on Windows Server Active Directory Yes No					
Mode ⊕		Enforced	Audit		

https://aka.ms/deploypasswordprotection







Phishing Defensive Layers

Require Users to MFA (FIDO2 preferred)

Microsoft Authenticator app recommended

Conditional Access
Policy

- Enforce MFA
- For specific apps
- Location based grant/block rules

Risk Based Policy

Only prompt the user to take action when risk is detected





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Key Cloud Administration Security Controls

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- Use admin systems for cloud administration
- Enforce FIDO2 for Trimarc Level 0 & 1 roles
- FIDO2 keys for Emergency "Break Glass" Accounts
- Leverage Conditional Access policies to enforce MFA for admins from all locations



https://x.com/merill/status/1821027962864726249/





Key Points for Securing Entra ID

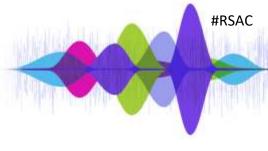
- Review Level 0 & Level 1 roles and ensure they are not synchronized from on-prem Active Directory.
- Ensure no standard user accounts have privileged role membership (Level 0 & Level 1) which includes PIM eligible.
- Review Level 0 & Level 1 membership on a regular basis, including PIM eligible.
- Ensure all Level 0 & Level 1 members are PIM eligible (service accounts & service principles excepted).
- Review role assignable group membership and owner rights on a regular basis.
- Review Application Administrator & Cloud Application Administrator members when there are applications with Level 0 & Level 1 application permissions.
- Ensure that Conditional Access requires MFA for Level 0 & Level 1 role members for every authentication, preferably FIDO2/Microsoft Authenticator push (service accounts & service principles excepted).
- Ensure there is at least 1 emergency access admin account configured with a FIDO2 key(s).





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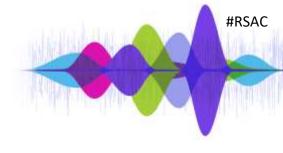
Common Persistence Method Checks



- Review Illicit Consent Grants (OAUTH)
 https://docs.microsoft.com/en-us/microsoft-365/security/office-365-security/detect-and-remediate-illicit-consent-grants?view=o365-worldwide
- Review Exchange Forms/Rules for potentially malicious settings. https://docs.microsoft.com/en-us/microsoft-365/security/office-365-security/detect-and-remediate-outlook-rules-forms-attack?view=o365-worldwide
- Review Exchange Online mailbox permissions for unusual/unintended configuration (Get-ExoMailboxPermission) https://docs.microsoft.com/en-us/powershell/module/exchange/powershell-v2-module/get-exomailboxpermission?view=exchange-ps



Apply What You Have Learned Today



- Next week you should:
 - Identify the Level 0 & Level 1 accounts and Level 0 applications
- In the first three months following this presentation you should:
 - Implement PIM with eligible conditions for all Level 0 & Level 1 accounts.
 - Configure auditing around Elevated Access.
- Within six months you should:
 - Implement Microsoft Authenticator MFA for all admin accounts
 - Remove text/SMS as an MFA option



Conclusion





Attackers are targeting the cloud

Identifying common security issues and resolving them improves system security.

Fixing these issues provides improved breach resilience.

Sean Metcalf | @PyroTek3 | Sean.Metcalf@trustedsec.com







