



# CLOUD IDENTITY SUMMIT '22

**Identity Management** Track

## Azure Attack Paths

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Community Event by



**BONN**

# About me



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# Identities in Azure

## Human Identities



## Workload Identities



Service Principal



Managed Identity

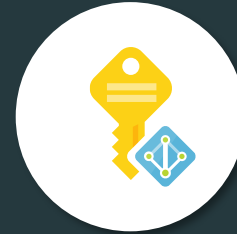
## Azure resources



## Human Identities



## Workload Identities



## Azure AD roles



## API permissions



# Too much permissions, a common mistake





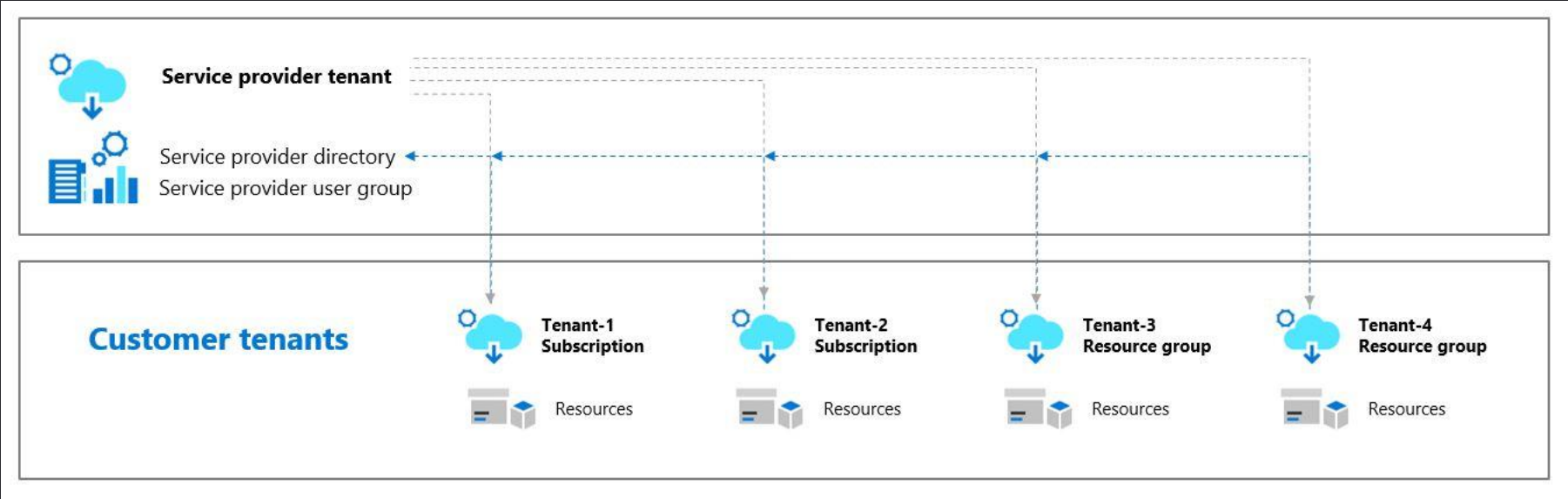
# Attribution

- Sander Berkouwer - @SanderBerkouwer
- Huy Kha - @DebugPrivilege
- Sami Lamppu - @samilamppu
- Dirk-Jan Mollema - @\_dirkjan
- Thomas Naunheim - @Thomas\_Live
- Andy Robbins - @\_wald0
- Dr. Nestori Syynimaa - @DrAzureAD
- And many more...

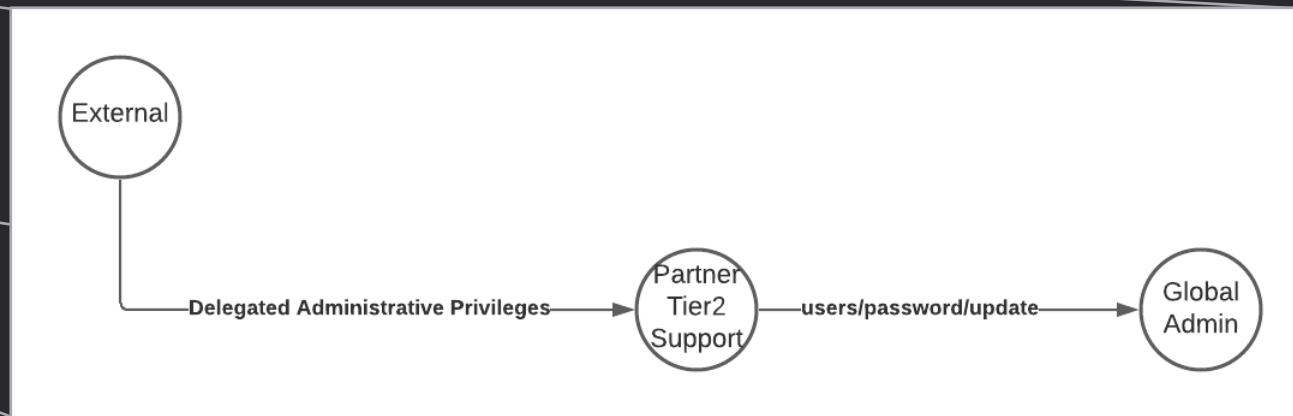
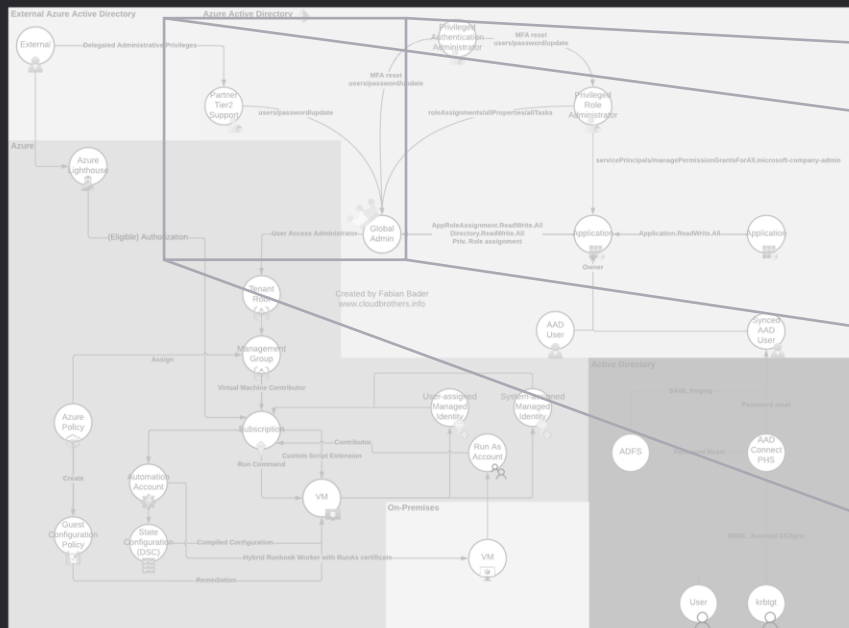




# Azure Lighthouse



# Delegated Administrative Privileges



# Granular DAP

Microsoft Partner Center

Search

Home > Customers > Granular administration > Create an admin relationship request

Customer list

Administer

## Granular administration | Create an admin relationship request

To request an admin relationship with a customer, fill out the form below, copy and paste the following text, including the URL, into an email. Edit the text if necessary and send the email to your customer. Your customer will be able to see the Admin relationship name in the M365 Admin Center.

Admin relationship name \*

D365Admins D365Admins is available ✓

ⓘ The admin relationship name is visible to customers.

Duration in days \*

730

Requested Azure AD roles \*

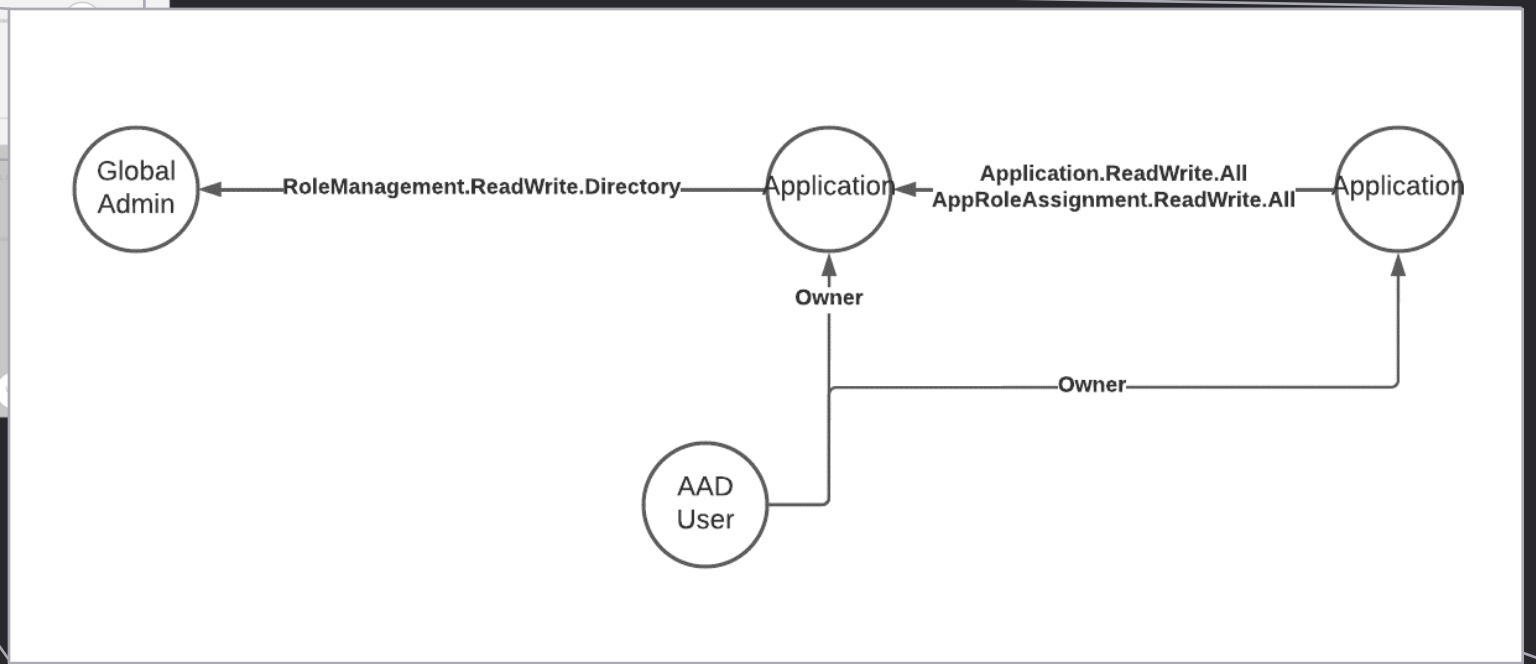
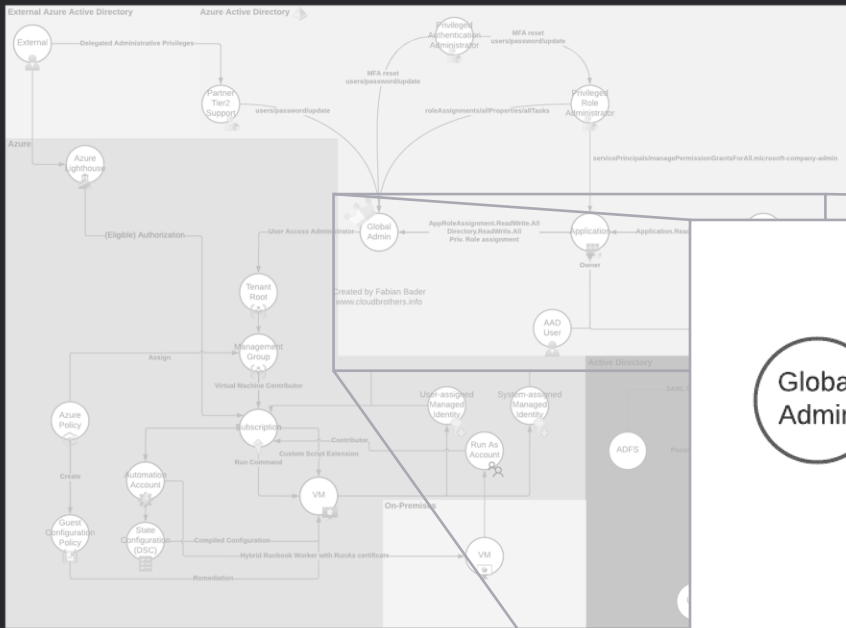
Identify the Azure AD roles you want to assume for your customer.

[Select Azure AD roles](#)

Dynamics 365 administrator  
Helpdesk administrator

Finalize request Cancel

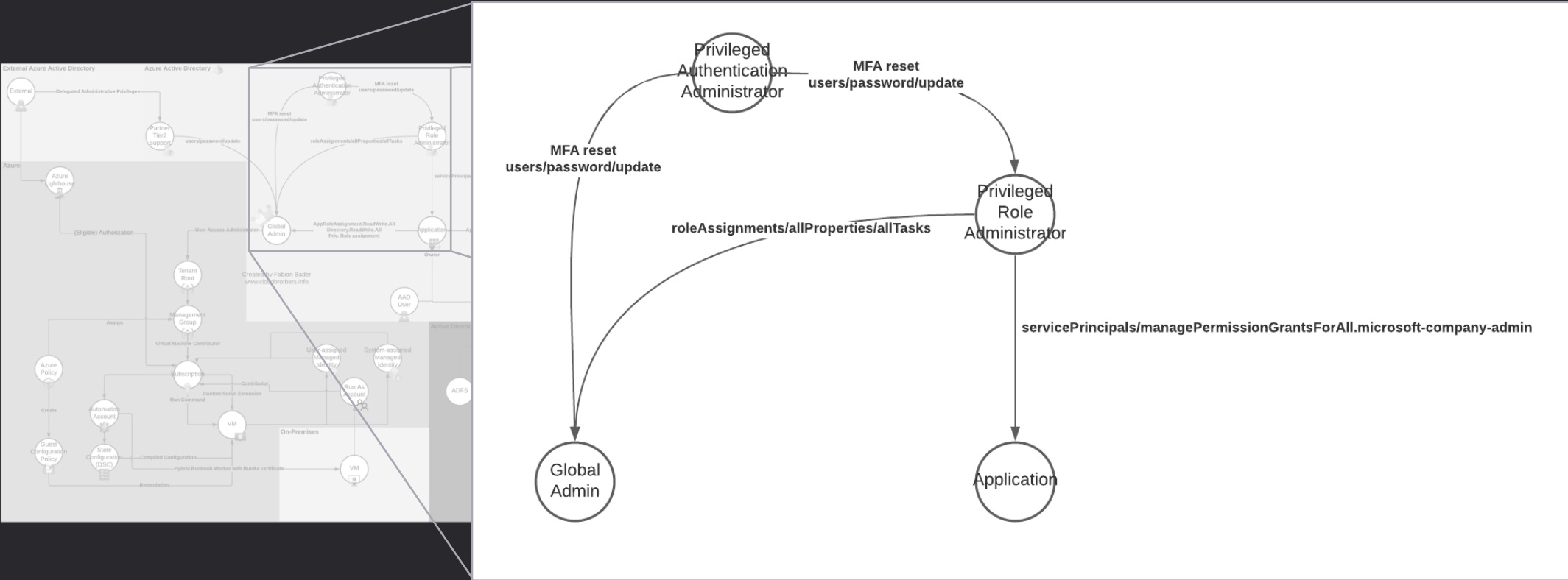
# Abuse extensive API Permissions



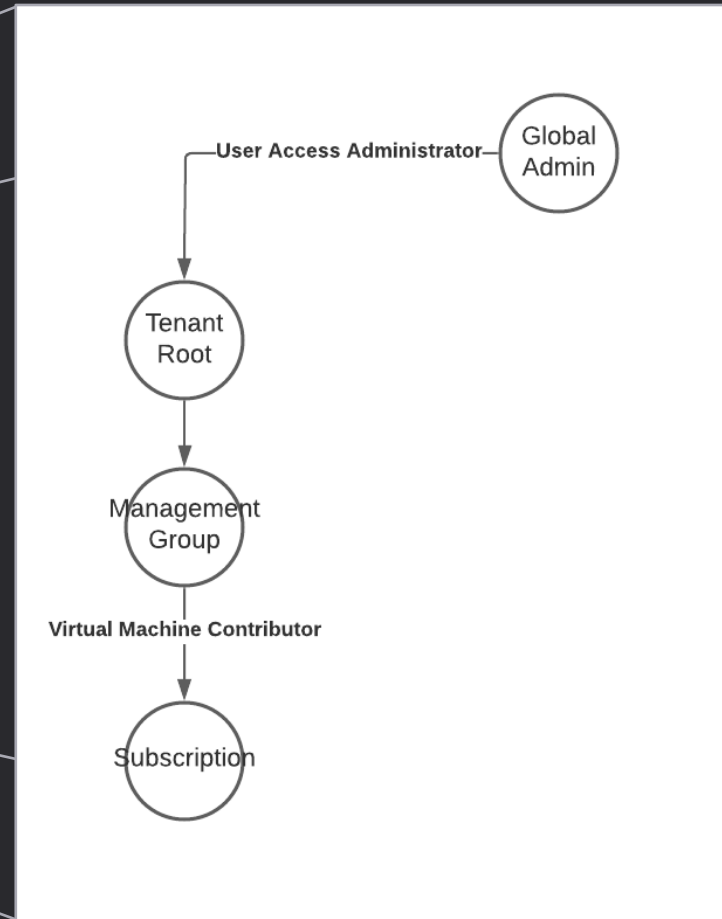
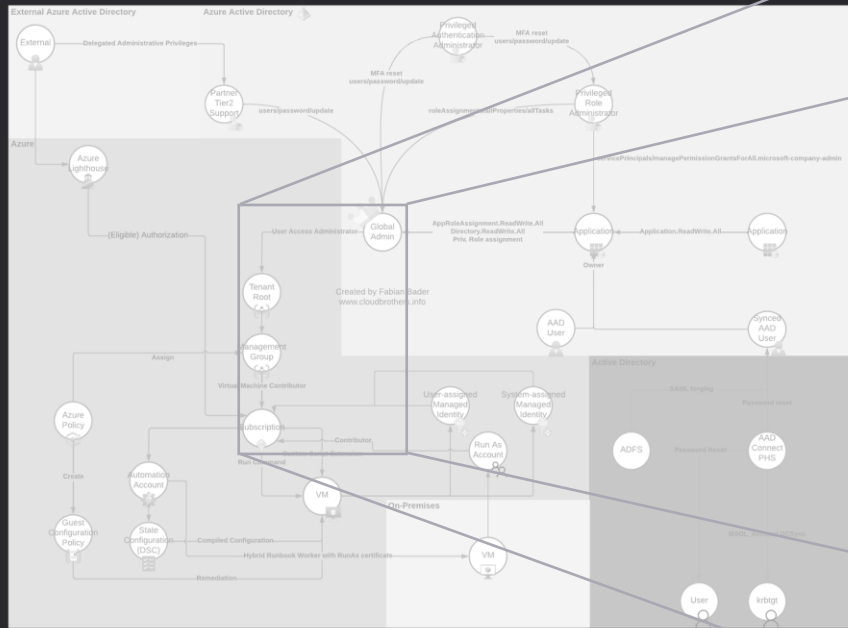
# Azure AD Roles

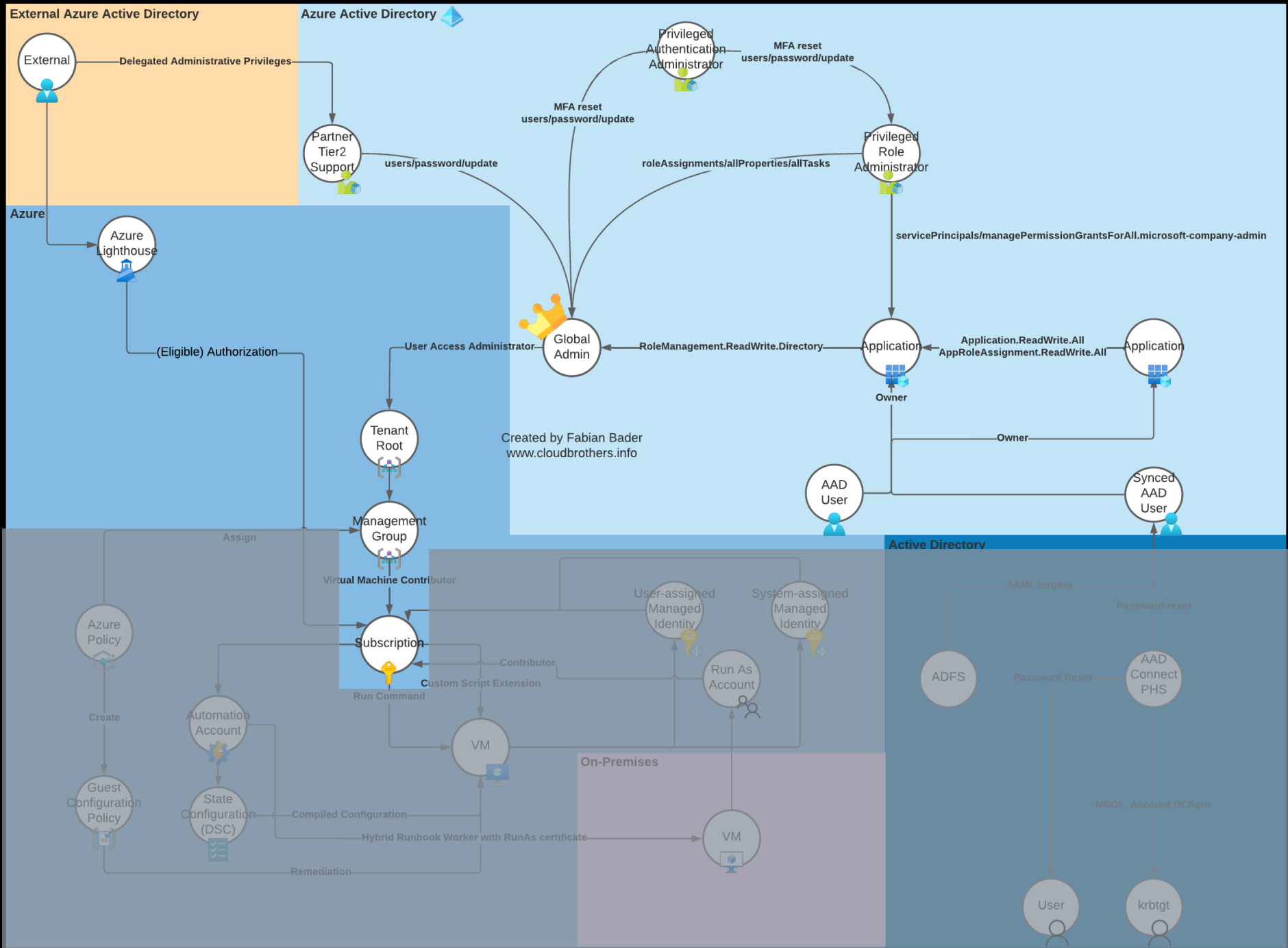
Role that password can be reset	Password Admin	Helpdesk Admin	Auth Admin	User Admin	Privileged Auth Admin	Global Admin
Auth Admin			✓		✓	✓
Directory Readers	✓	✓	✓	✓	✓	✓
Global Admin					✓	✓*
Groups Admin				✓	✓	✓
Guest Inviter	✓	✓	✓	✓	✓	✓
Helpdesk Admin		✓		✓	✓	✓
Message Center Reader		✓	✓	✓	✓	✓
Password Admin	✓	✓	✓	✓	✓	✓
Privileged Auth Admin					✓	✓
Privileged Role Admin					✓	✓
Reports Reader		✓	✓	✓	✓	✓
User (no admin role)	✓	✓	✓	✓	✓	✓
User (no admin role, but member or owner of a role-assignable group)					✓	✓
User Admin				✓	✓	✓
Usage Summary Reports Reader		✓	✓	✓	✓	✓

# Azure AD Roles



# Elevate Azure Subscription Access







Questions?



**SCAN ME**

<https://cloudbrothers.info/en/azure-attack-paths>



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# CLOUD IDENTITY SUMMIT '22

Thu, September 22nd, 2022

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Roundtable discussion and Q&A  
on experiences from the field and current trends!

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