

WARNING!!!

**The following presentation displays an
unsettling addiction to the Power Platform
and the Avengers from the Marvel Cinematic
Universe**

Viewer discretion is advised



POWER PLATFORM SECURITY

BACK TO BASICS



NATI TURTTLEDOVE



- 💎 Solutions Architect at CarePoint365
- 💎 Microsoft BizApps MVP
- 💎 11x Microsoft Certified
- 💎 #LowCodeNoCode Enthusiast
- 🇿🇦 Expatriate living in the 🇬🇧
- 💎 All about #CommunityRocks



SECURITY CONCEPTS

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 **Users**

 **Security Roles**

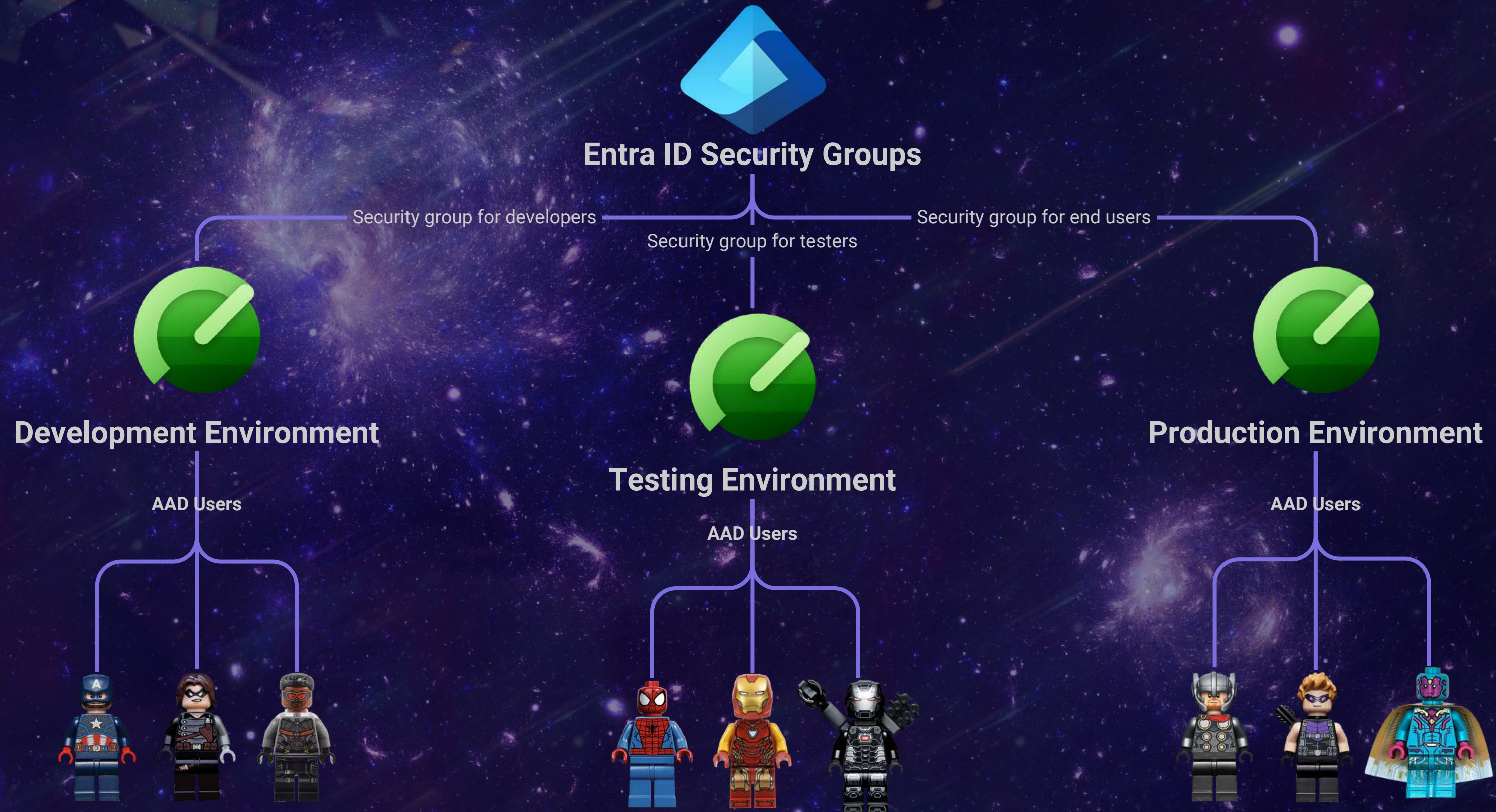
 **Business Units**

 **Record Ownership**

 **Teams**

 **Hierarchy Model**

ENVIRONMENT SECURITY GROUPS



FORCE SYNC USER

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When a group member is added or removed ...

* Group Id

↓

Apply to each ...



* Select an output from previous steps

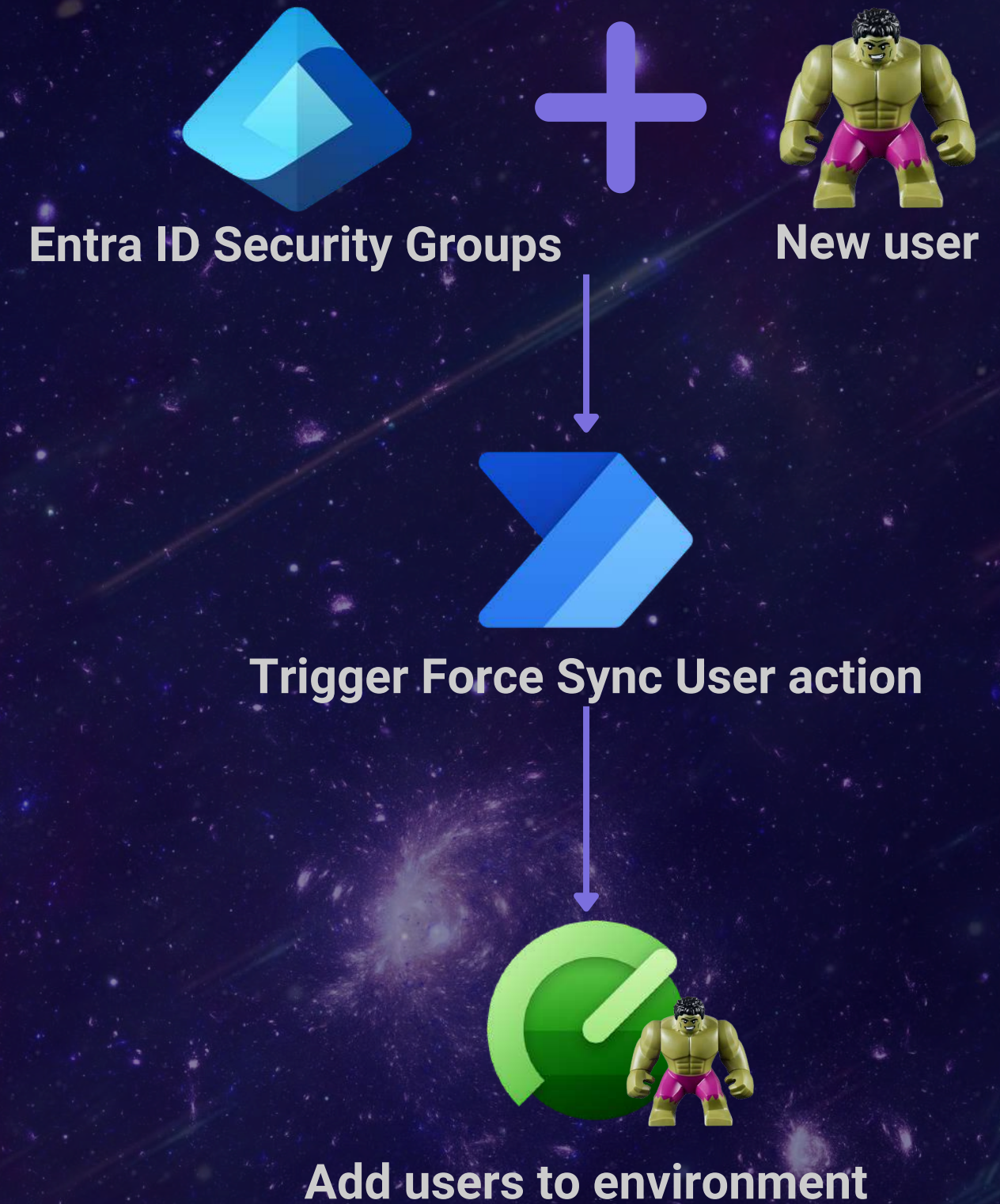
Force Sync user ...

* Environment

* ObjectId

Show advanced options ▾

  Add an action



BUSINESS UNITS

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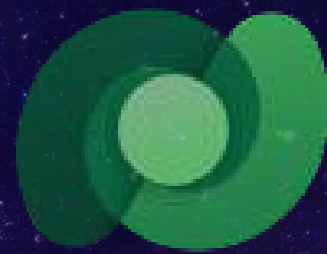
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MCU



Midgard



Asgard



The Dynasty

Heroes

Weapons

Threats

Heroes

Weapons

Threats

Heroes

Weapons

Threats



BUSINESS UNITS

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Owner Team

Owens records created by users assigned to that team and thus has full privilege rights to its owned records. Members can inherit the security role assigned to an owner team



Access Team

Will not own any records its members create but rather allow its members to share records with the team, which then allows other members to have read, write, and append privileges. Members are dependant on their own security roles.



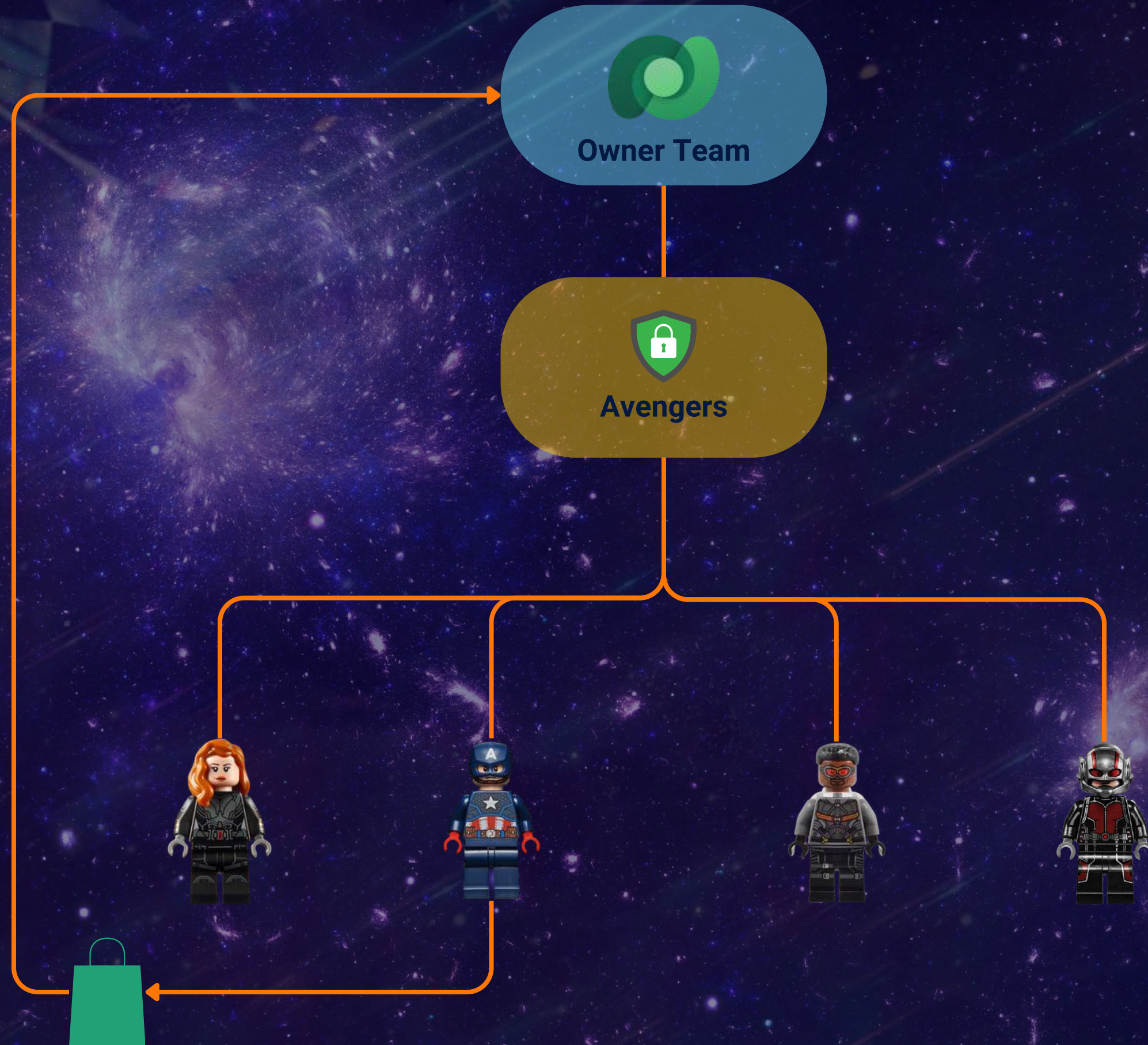
Entra ID Team

Driven by Entra ID Security Groups or Entra ID Office Groups. When an Entra group team is associated with either a security group or office group, the security group or office group controls member access.

TEAMS - OWNER

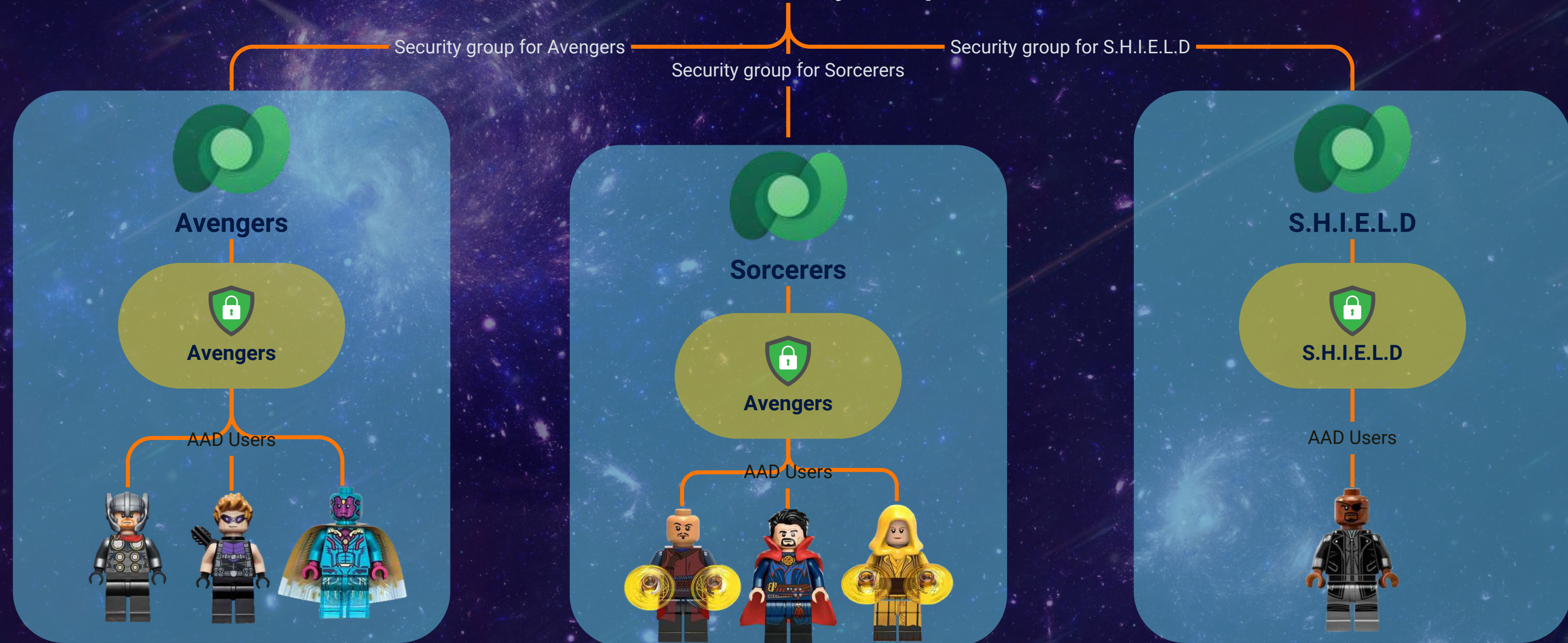
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Entra ID Security Groups











SECURITY ROLES

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ROLES	 CANVAS APPS	 CLOUD FLOWS	 CONNECTORS	 GATEWAYS DATAFLOWS	 DATAVERSE	 MODEL-DRIVEN APP	 SOLUTION FRAMEWORK	 AI BUILDER
Environment Maker	✓	✓	✓	✓		✓	✓	
Environment Admin	✓	✓	✓	✓				
System Customiser	✓	✓	✓		✓	✓	✓	✓
System Admin	✓	✓	✓	✓	✓	✓	✓	✓

PRINCIPLE OF LEAST PRIVILEGE - PoLP



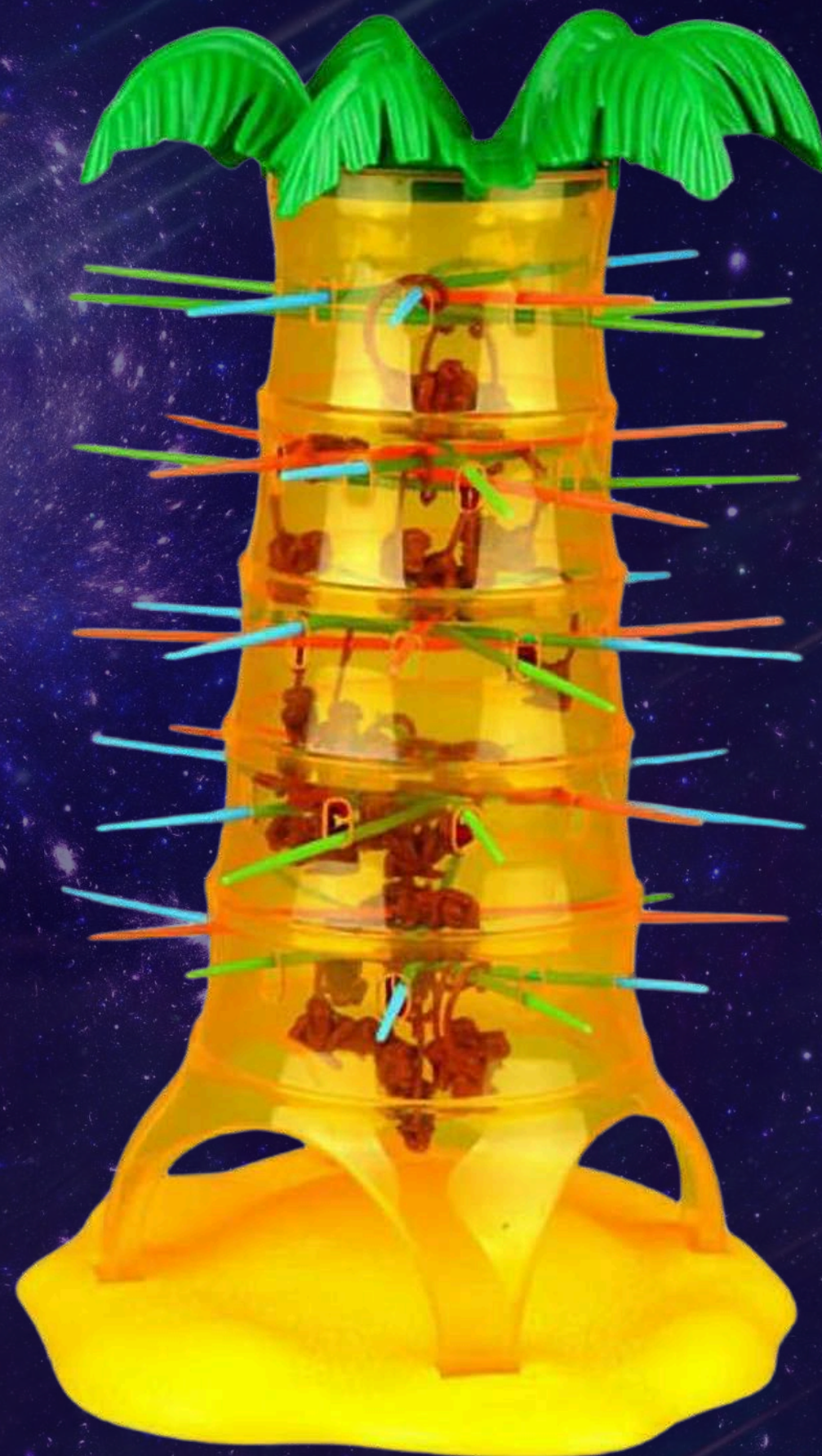
- Limit user access to the minimum necessary.
- Grant minimal permissions for specific tasks.
- Group privileges into layers.
- Implement granular release layers.



PRINCIPLE OF LEAST PRIVILEGE - PoLP

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HERO SECURITY ROLE

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TABLES	CREATE	READ	WRITE	DELETE	APPEND	APPEND TO	ASSIGN	SHARE
Heroes								
Weapons								
Threats								
Ships								

Role Privileges



SECURITY ROLE - THREATS

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Midgard



Avenger Captain



Avenger



Avenger



Avenger



Asgard



Realm God



Andromeda



Guardian of the Galaxy Captain



Guardian of the
Galaxy



Guardian of the
Galaxy



Guardian of the
Galaxy

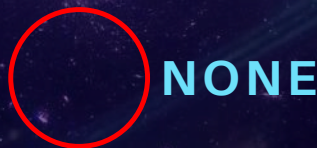
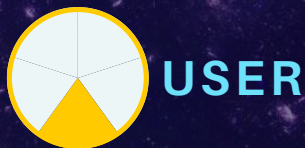
HERO SECURITY ROLE

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TABLES	CREATE	READ	WRITE	DELETE	APPEND	APPEND TO	ASSIGN	SHARE
Heroes								
Weapons								
Threats								
Ships								

Role Privileges



SECURITY ROLE - WEAPONS

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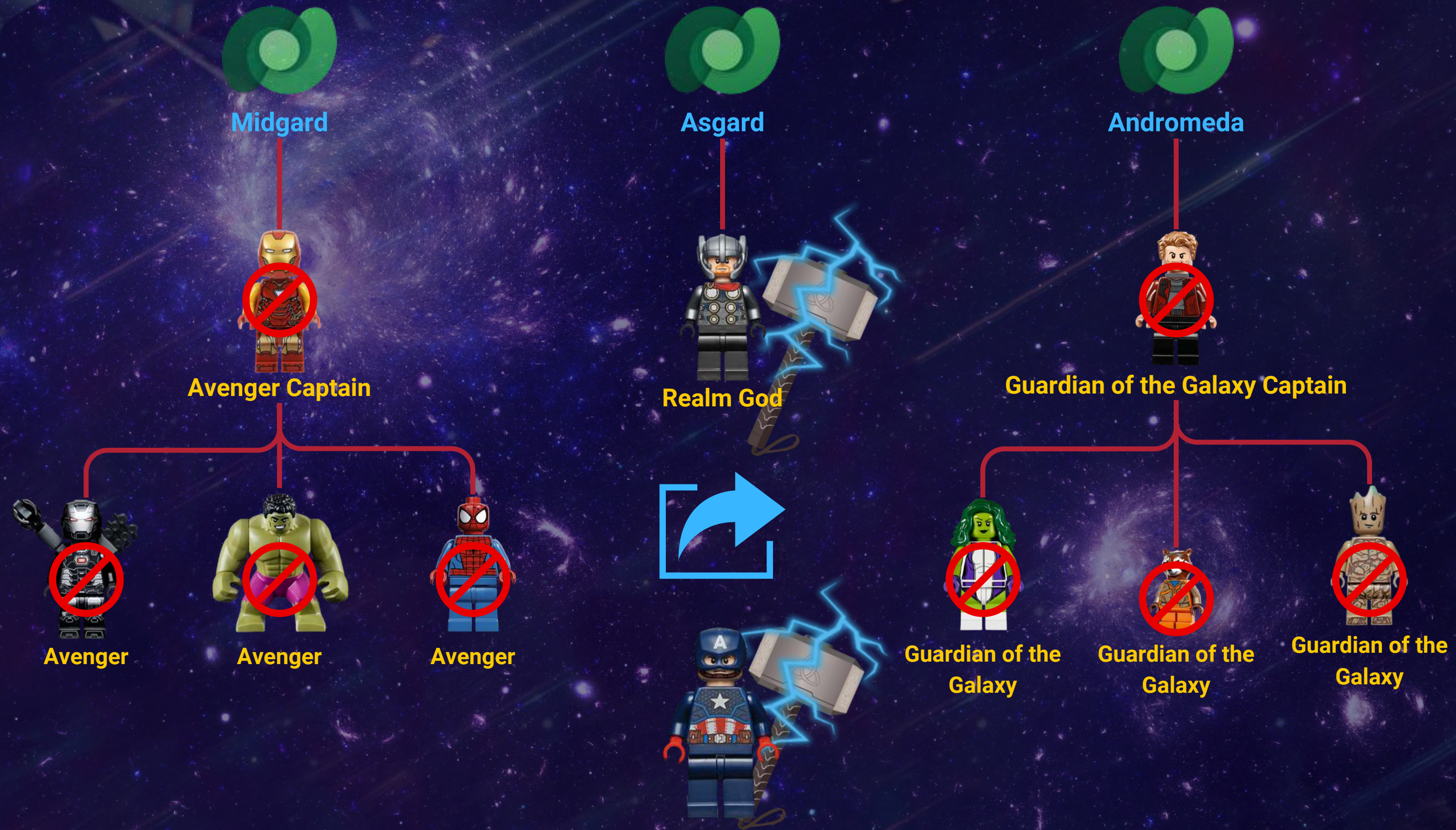
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SECURITY ROLE - WEAPONS

































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S.H.I.E.L.D SECURITY ROLE



TABLES	CREATE	READ	WRITE	DELETE	APPEND	APPEND TO	ASSIGN	SHARE
Heroes								
Weapons								
Threats								
Ships								

Role Privileges

 ORGANISATION

 PARENT : CHILD
BUSINESS UNIT

 BUSINESS UNIT

 USER

 NONE

HIERARCHY MODELS

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- Configured per environment
- Not AAD driven
- Set access depth
- Aligned with selected table



HIERARCHY MODELS

Manager

- **Users assigned manager**
- **Based on Users table**

Position

- **Configure positions**
- **Users assigned to position**
- **Based on Users table and Position table**

HIERARCHY MODELS

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S.H.I.E.L.D Director



Avenger Captain



Avenger



Avenger



Avenger



Avenger Captain



Avenger



Avenger



Avenger



Realm God



Sorcerer Supreme



Sorcerer



Sorcerer



Guardian of the Galaxy Captain



Guardian of the
Galaxy



Guardian of the
Galaxy



Guardian of the
Galaxy

MANAGER HIERARCHY MODEL

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S.H.I.E.L.D Director

2



Avenger Captain



Avenger Captain

1



Avenger



Avenger



Avenger



Avenger



Avenger



Avenger

0

POSITION HIERARCHY MODEL

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S.H.I.E.L.D. DIRECTOR

S.H.I.E.L.D Director



Avenger Captain



AVENGERS CAPTAIN

Avenger Captain



Avenger



Avenger



Avenger



Avenger



Avenger



Avenger

AVENGERS



THE END GAME



RBACs Model

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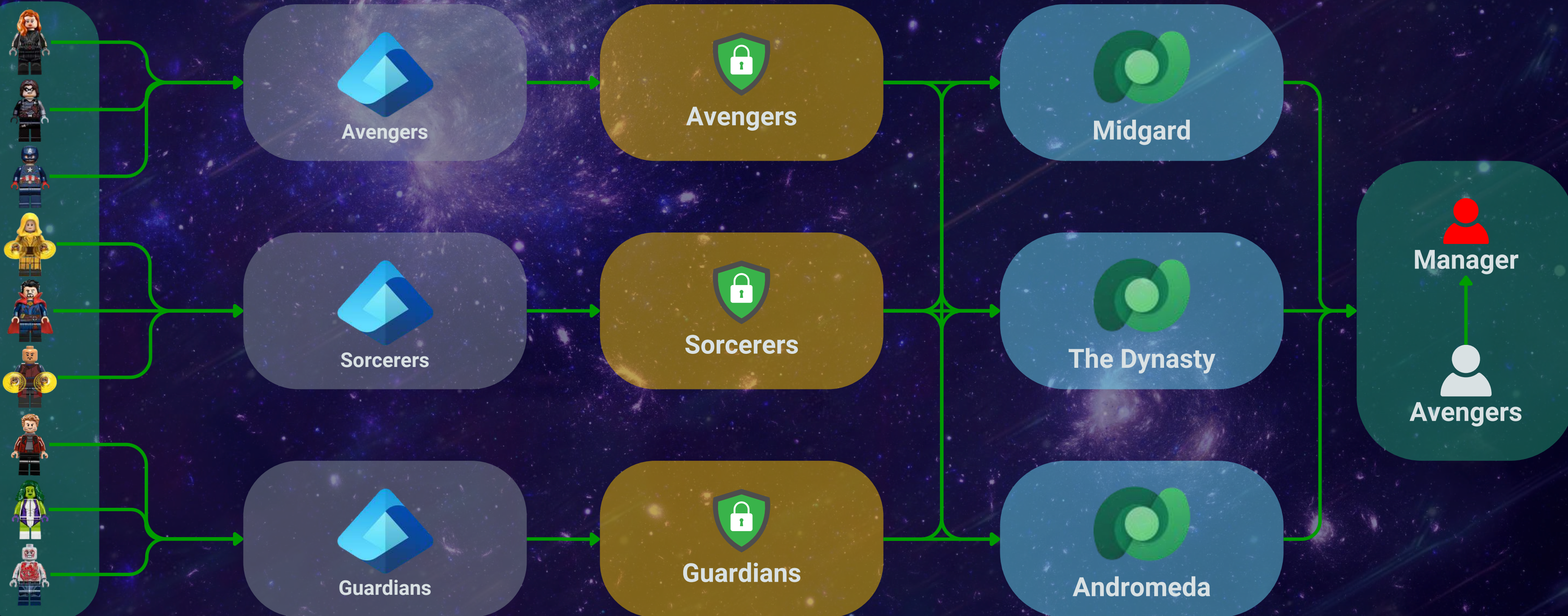
USERS

ENTRA ID SECURITY GROUPS

TEAMS + SECURITY ROLES

BUSINESS UNITS

HIERARCHY MODEL



RBACs Model



Avengers
Security Role



MIDGARD



THE DYNASTY



ANDROMEDA

User-level read
access SR

User-level read
access SR

Record Owner:
User-level read
access SR



SUMMARY



**In realms where data flows, secure and strong,
Business Units guard us all day long.**

**Security Roles define what each can see,
Dataverse Teams work in harmony.**

**Hierarchy Models pass power down,
Ensuring data's safe, without a frown.**

THANK YOU

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POWER PLATFORM ENTHUSIAST

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