

WARNING!!!

**The following presentation displays an
unsettling addiction to the Power Platform
and the MCU Avengers**

Viewer discretion is advised



POWER PLATFORM AVENGERS

THE INFINITY STONES OF SECURITY



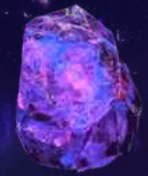
NATI TURTTLEDOVE



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



SECURITY CONCEPTS



Users



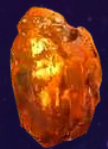
Security Roles



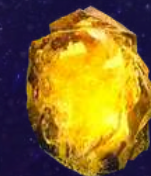
Business Units



Record Ownership

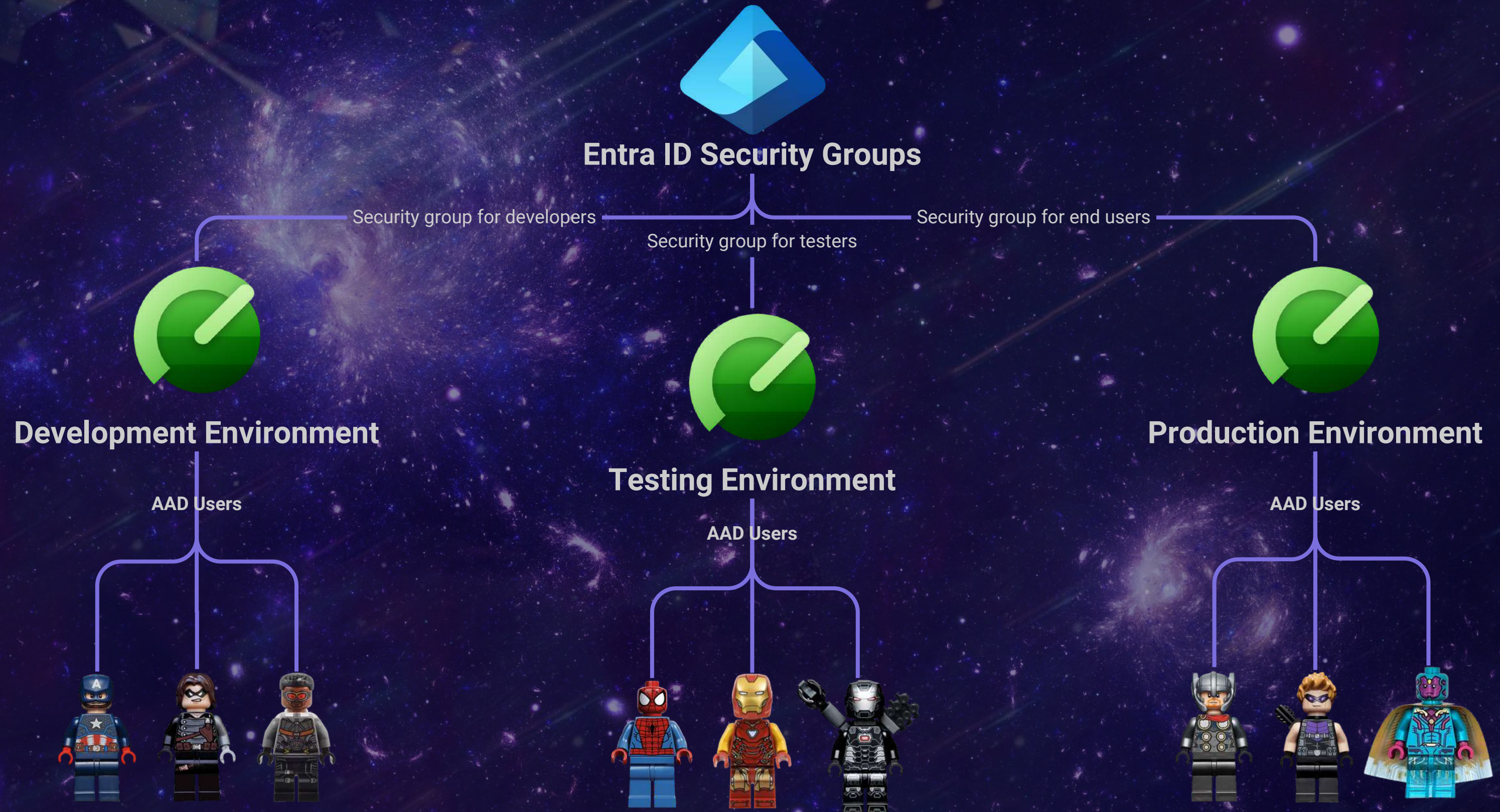


Teams




Hierarchy Models

ENVIRONMENT SECURITY GROUPS





FORCE SYNC USER

 When a group member is added or removed


* Group Id


✕



 Apply to each

* Select an output from previous steps

 body ✕


 Force Sync user

* Environment


The Avengers

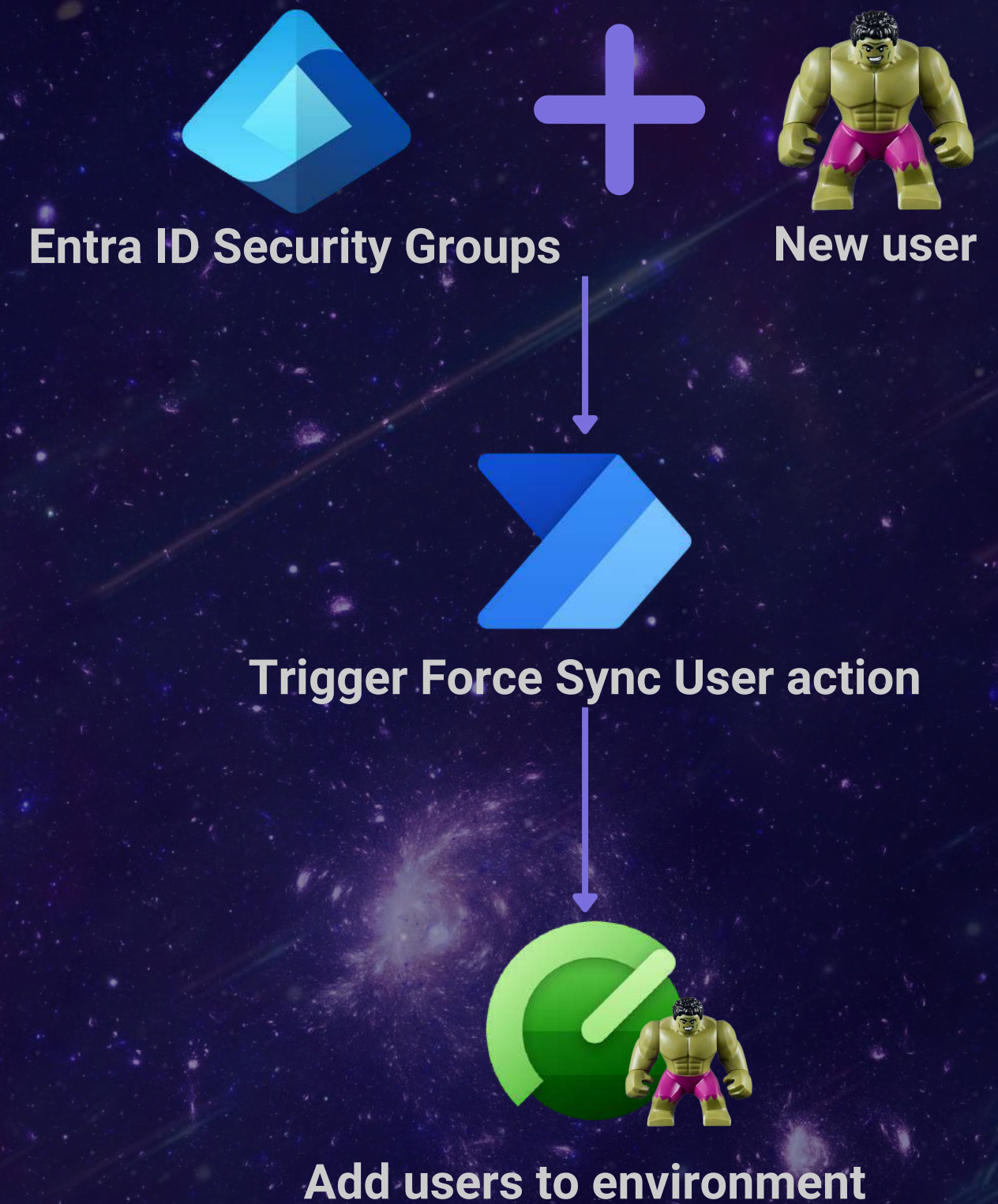
✓

* ObjectId

 User Id ✕

Show advanced options ▼

 Add an action



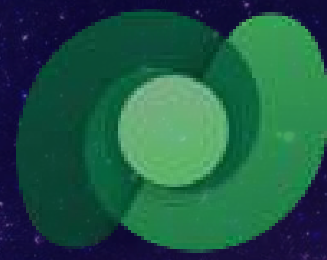
BUSINESS UNITS



MCU



Midgard



Asgard



The Dynasty

Heroes
Weapons
Threats

Heroes
Weapons
Threats

Heroes
Weapons
Threats



BUSINESS UNITS



TEAMS



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

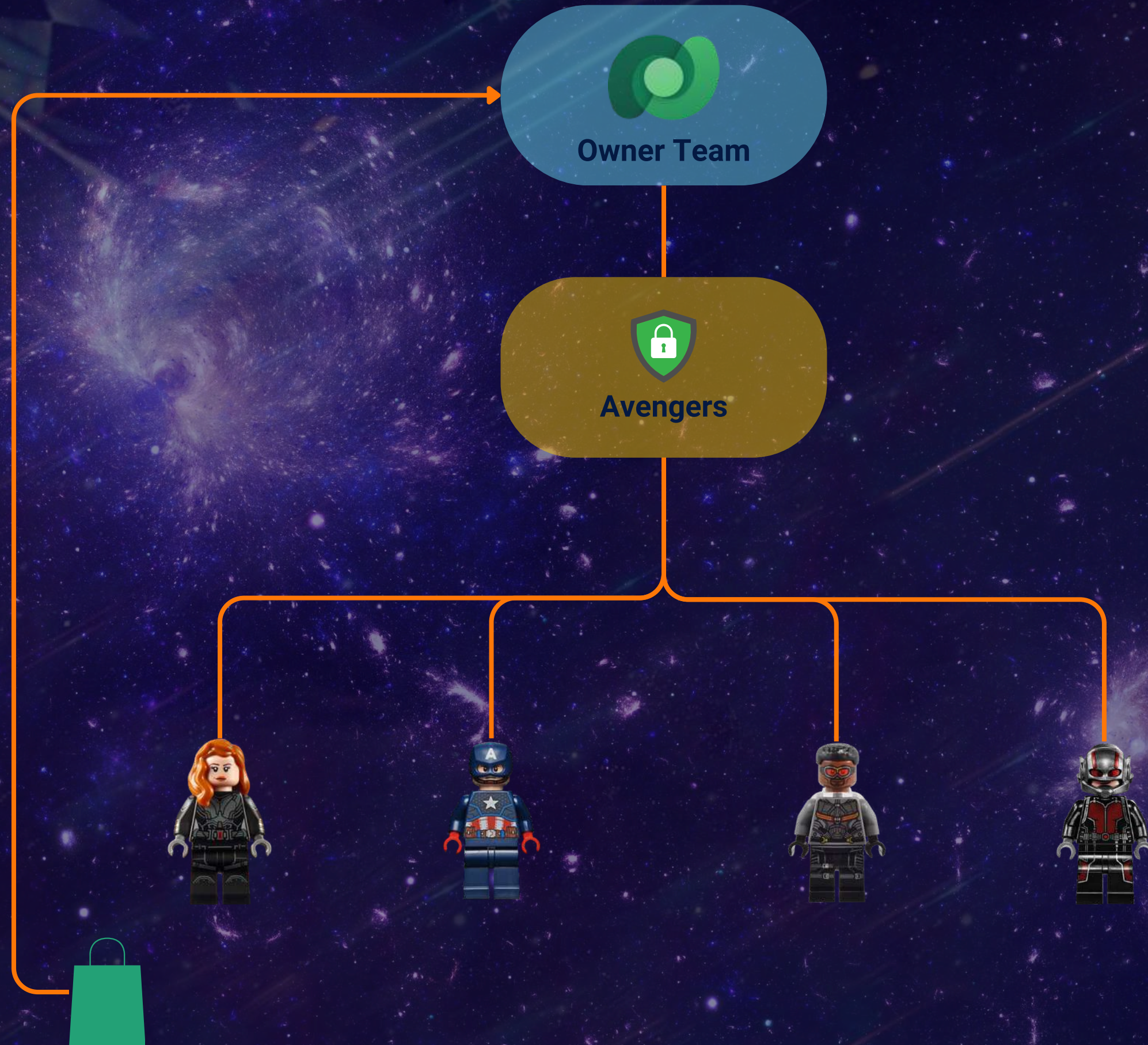
Will not own any records its members create but rather allow its members to share records with the team, which then allows other members to have read, write, and append privileges. Members are dependant on their own security roles.



Entra Security Team

Driven by Entra ID Security Groups or Entra 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.

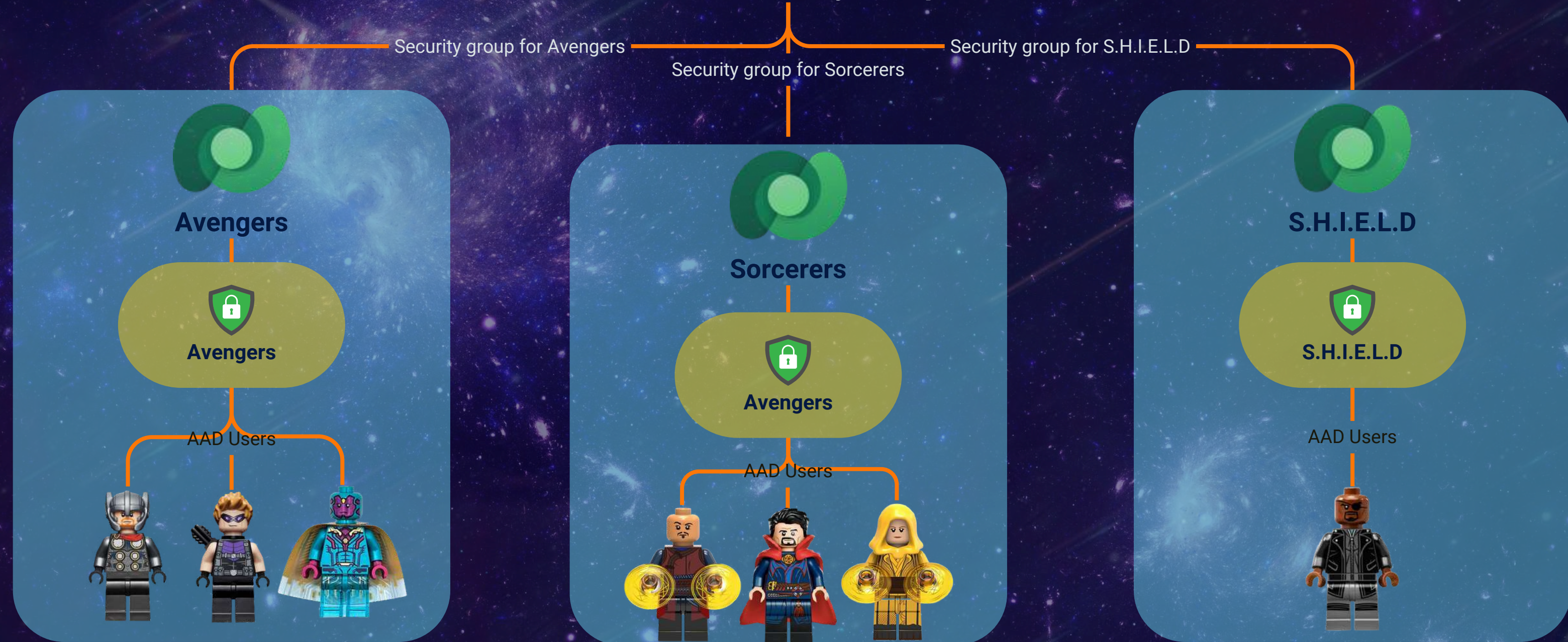
TEAMS - OWNER



TEAMS-ENTRA











Entra ID Security Groups



SECURITY ROLES



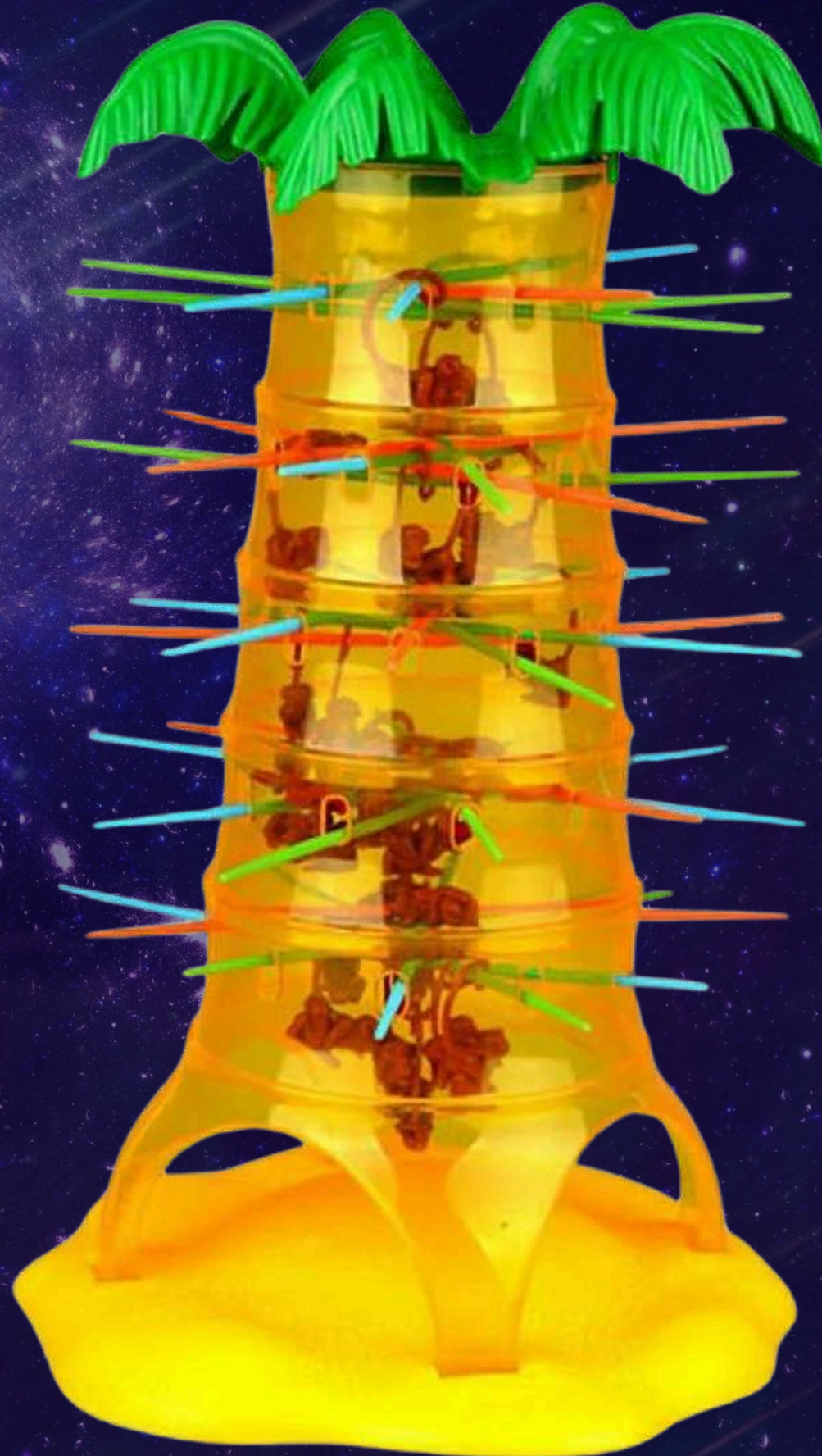
ROLES	 CANVAS APPS	 CLOUD FLOWS	 CONNECTORS	 GATEWAYS DATAFLOWS	 DATAVERSE	 MODEL-DRIVEN APP	 SOLUTION FRAMEWORK	 AI BUILDER
Environment Maker	✓	✓	✓	✓		✓	✓	
Environment Admin	✓	✓	✓	✓				
System Customiser	✓	✓	✓		✓	✓	✓	✓
System Admin	✓	✓	✓	✓	✓	✓	✓	✓

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



HERO SECURITY ROLE



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

Role Privileges

ORGANISATION

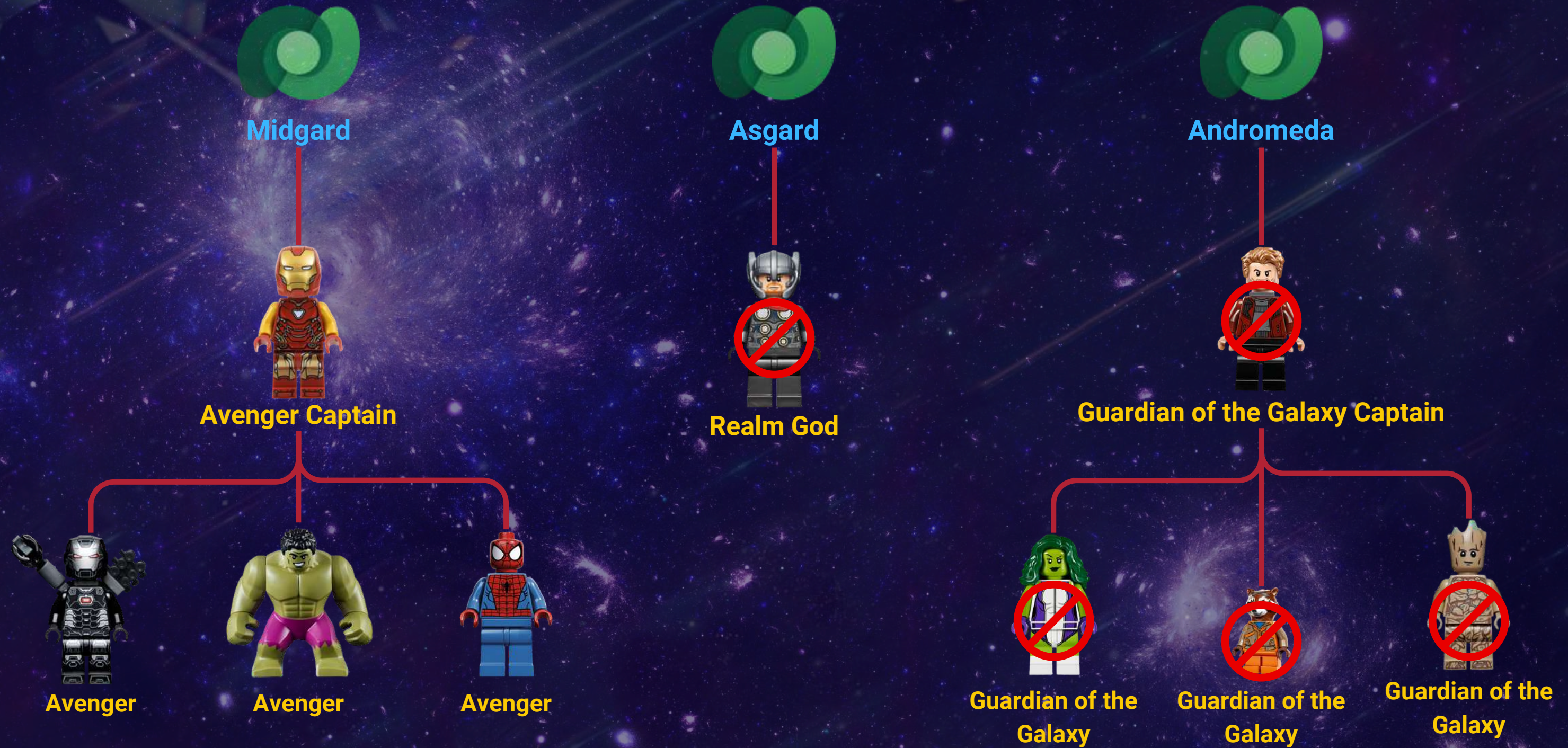
PARENT : CHILD
BUSINESS UNIT

BUSINESS UNIT

USER

NONE

SECURITY ROLE - THREATS



HERO 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

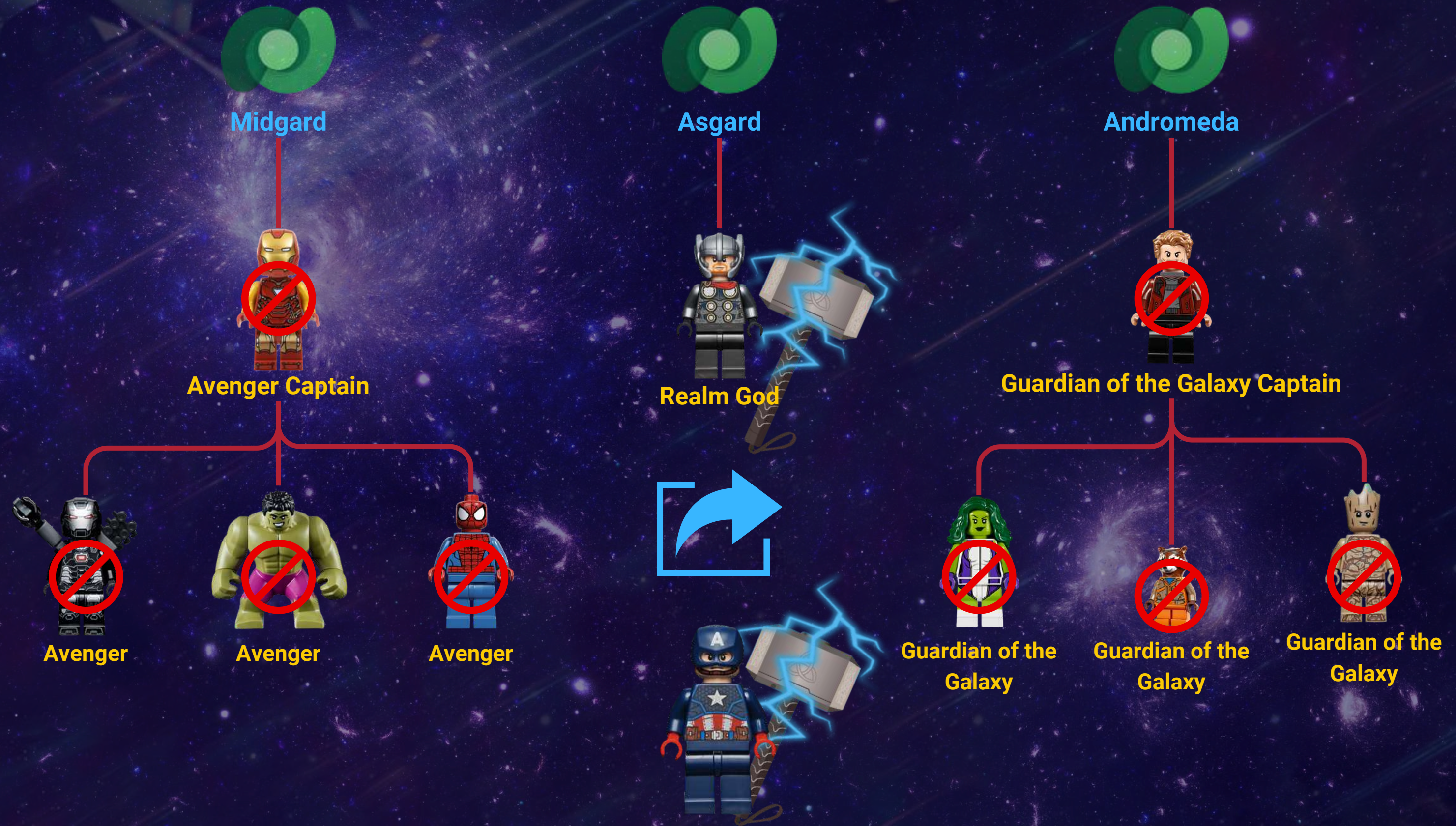
USER

NONE

SECURITY ROLE - WEAPONS



SECURITY ROLE - WEAPONS



SHIELD 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

TRIPLE THREAT



Entra ID Security Groups

Security group for Avengers Team



MCU



Avengers



Midgard



The Dynasty



Andromeda



HIERARCHY MODELS

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



HIERARCHY MODELS

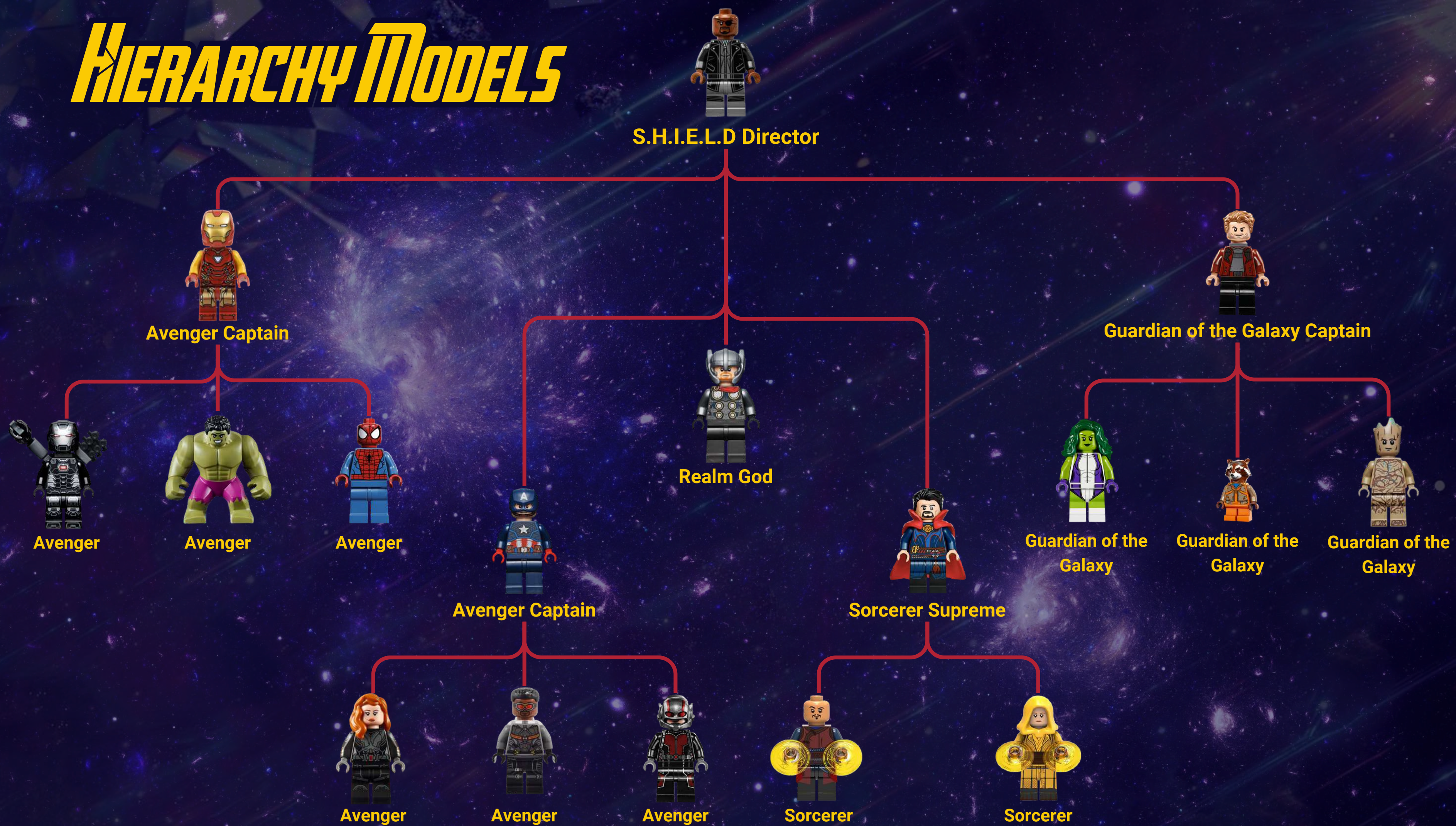
Manager

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

Position

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

HIERARCHY MODELS



MANAGER HIERARCHY MODEL



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

2



Avenger Captain



Avenger Captain

1



Avenger



Avenger



Avenger



Avenger



Avenger



Avenger

0

POSITION HIERARCHY MODEL



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

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



Avenger Captain



Avenger



Avenger



Avenger



AVENGERS CAPTAIN

Avenger Captain



Avenger



Avenger



Avenger

AVENGERS

THE END GAME



RBACs Model

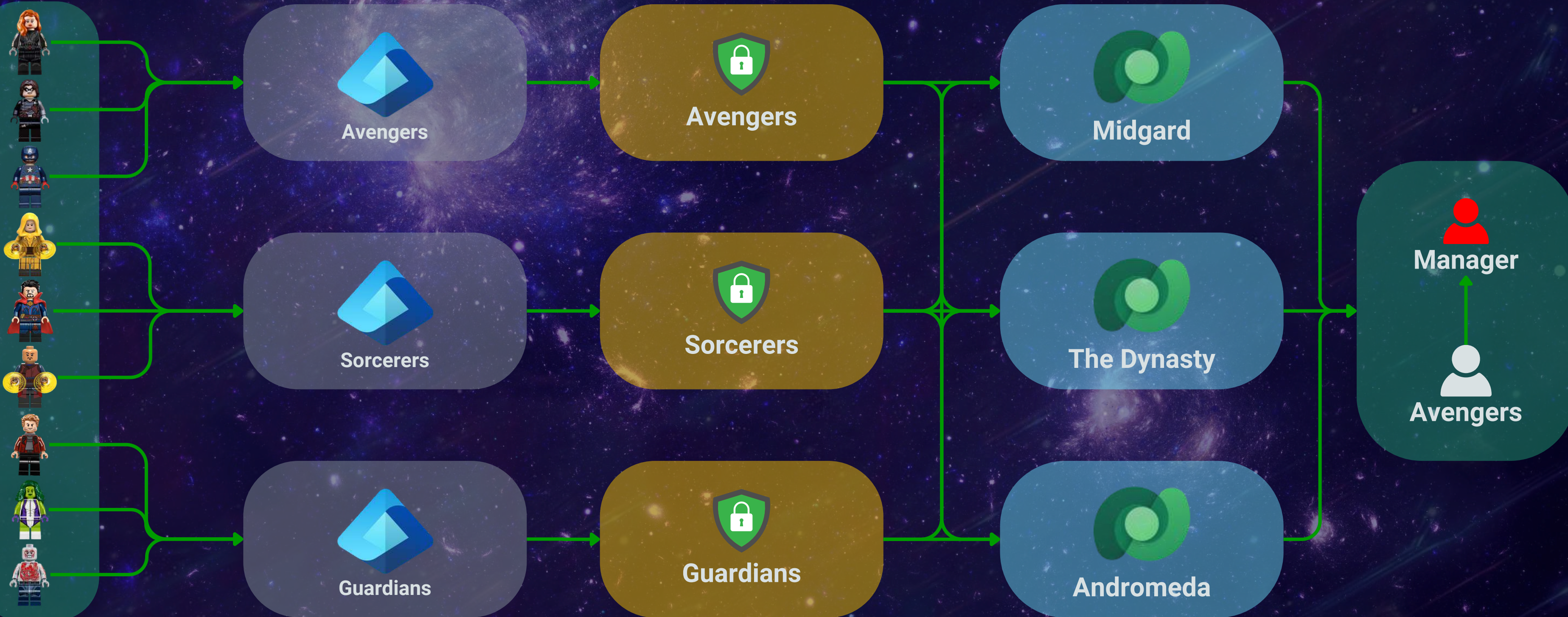
USERS

ENTRA ID SECURITY GROUPS

TEAMS + SECURITY ROLES

BUSINESS UNITS

HIERARCHY MODEL



RBACs Model

Avengers
Security Role

User-level read
access SR

User-level read
access SR

Record Owner:
User-level read
access SR



MIDGARD



THE DYNASTY



ANDROMEDA



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



POWER PLATFORM ENTHUSIAST

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