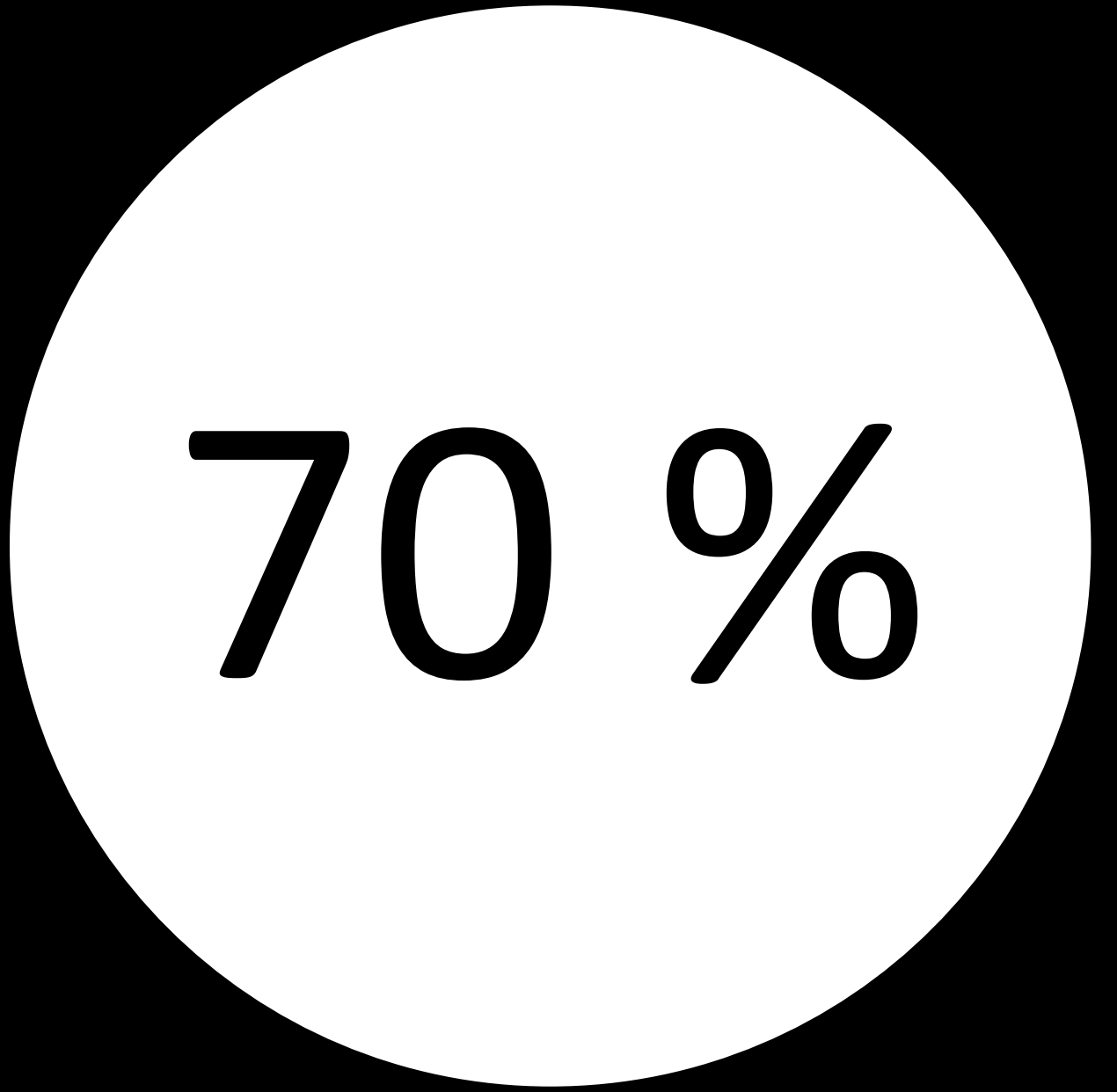
powered by Rachfahl IT-Solutions
CLOUD & DATACENTER CONFERENCE Germany

Design for Change:
Active Directory für das Cloud-Zeitalter

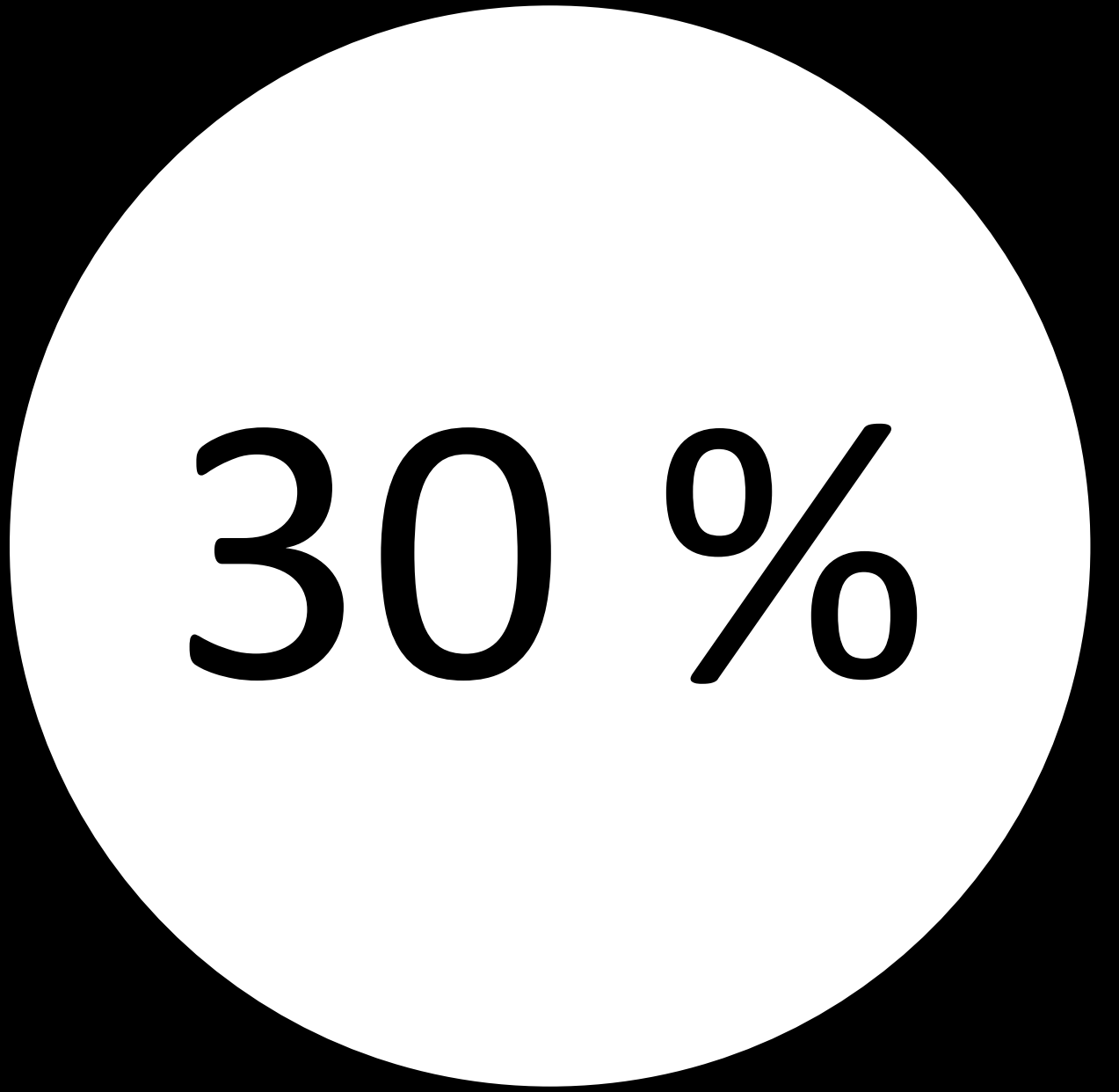
Nils Kaczenski


FaQ-o-maTiC.net
MVP
Microsoft®
Most Valuable
Professional

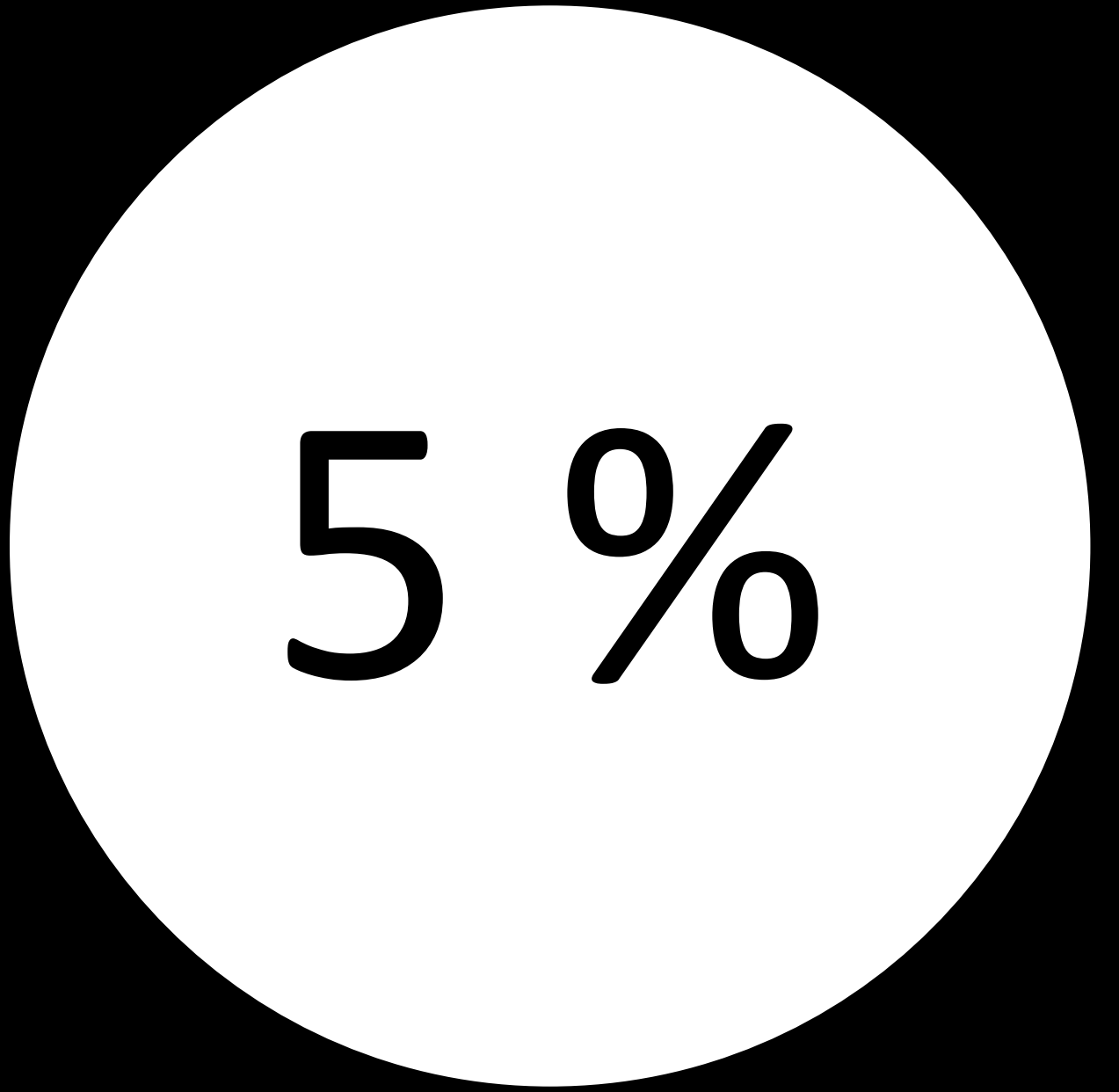
Kunden mit Interesse an „Cloud“



Kunden, die „Cloud“ produktiv nutzen



Kunden mit gutem AD-Design



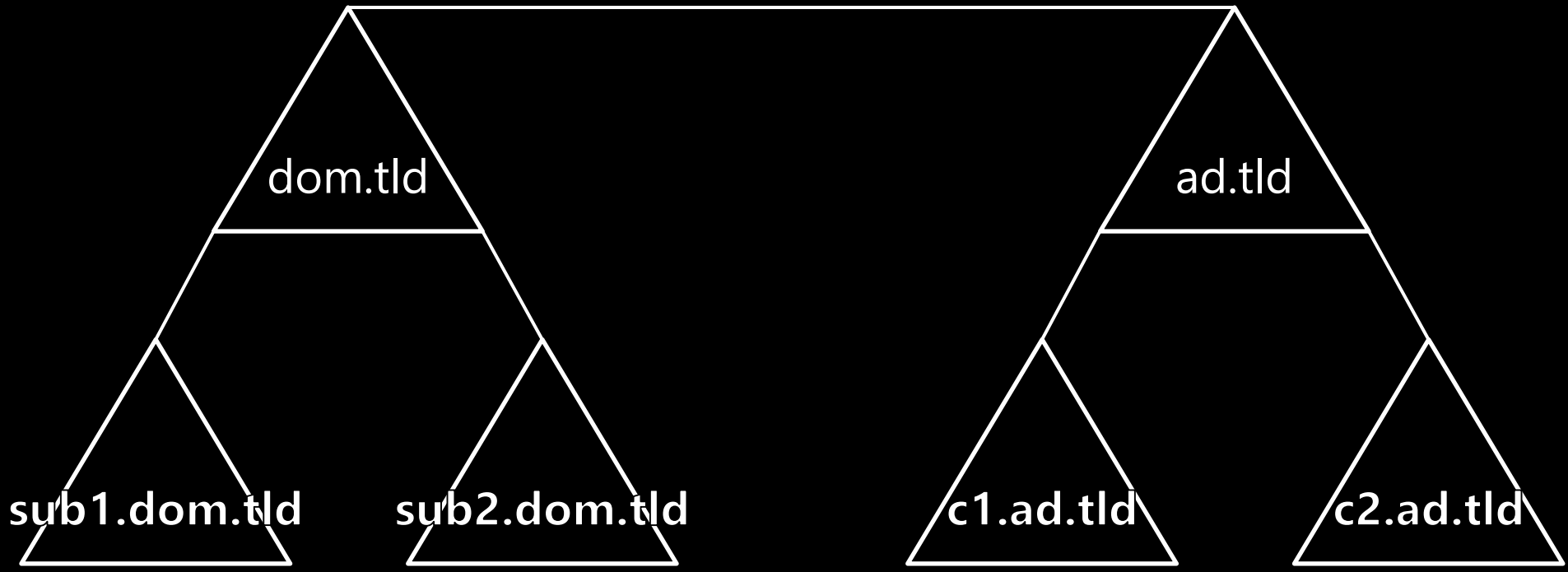
1

Design: Das Fundament für Identitäten

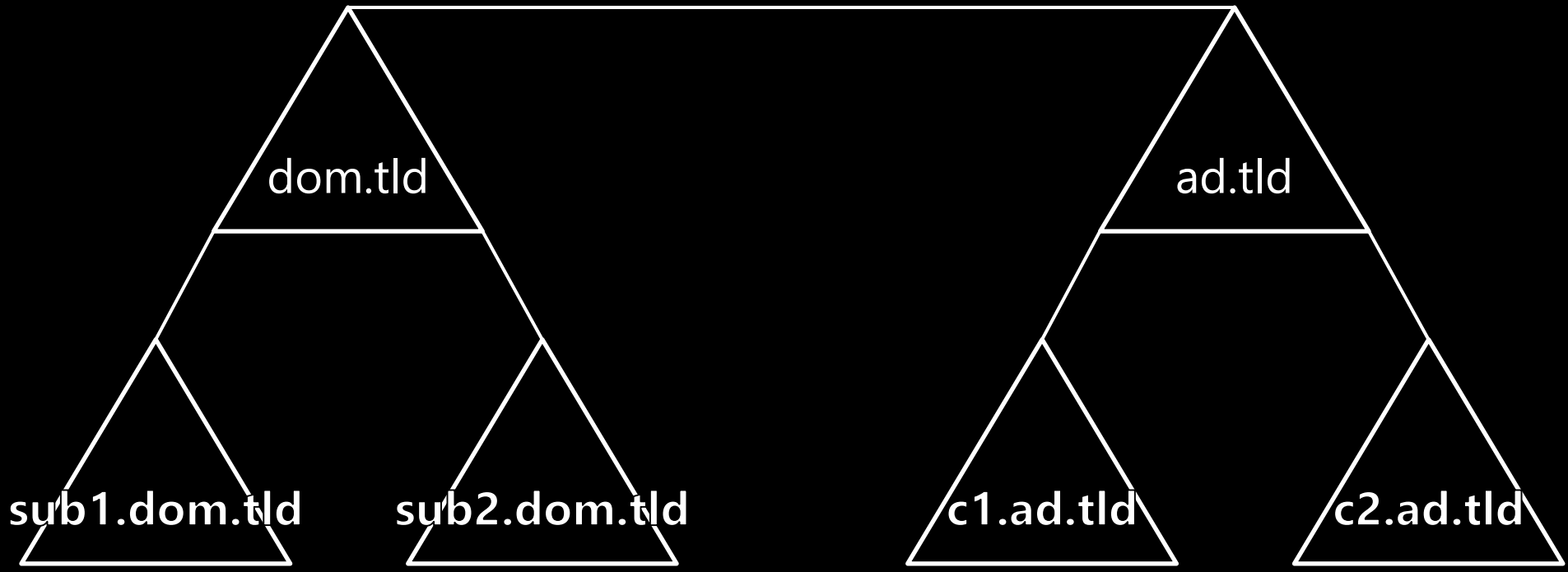
Name ist Schall und Rauch

abstrakt.org

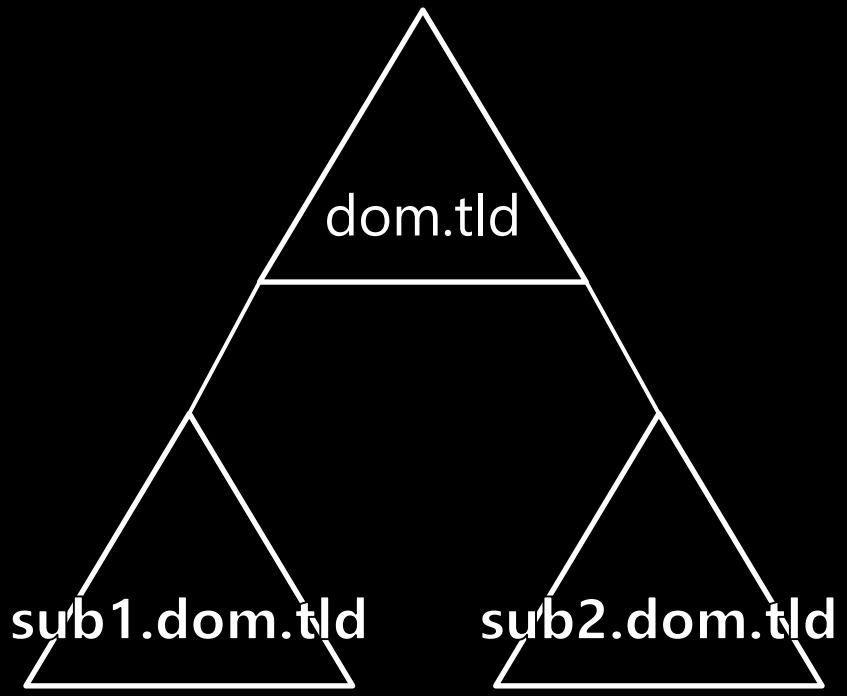
The Single Truth

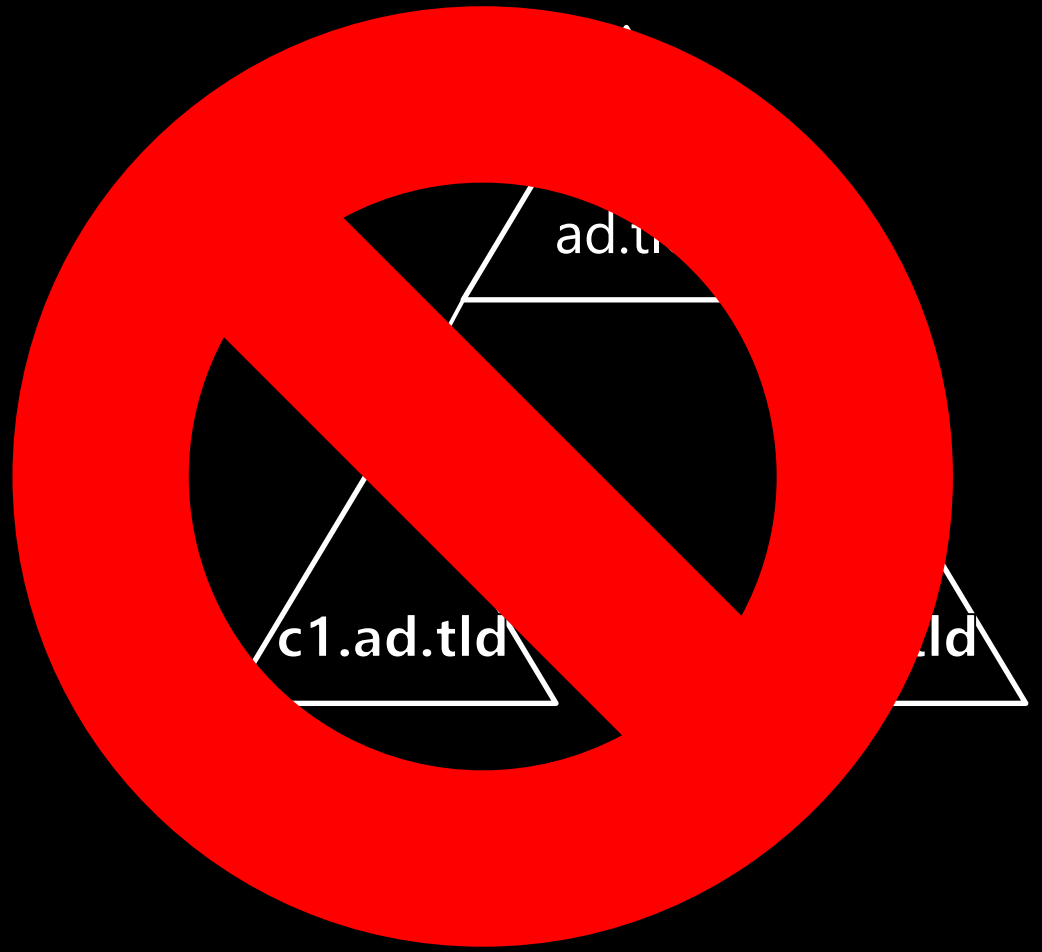


The Single Truth

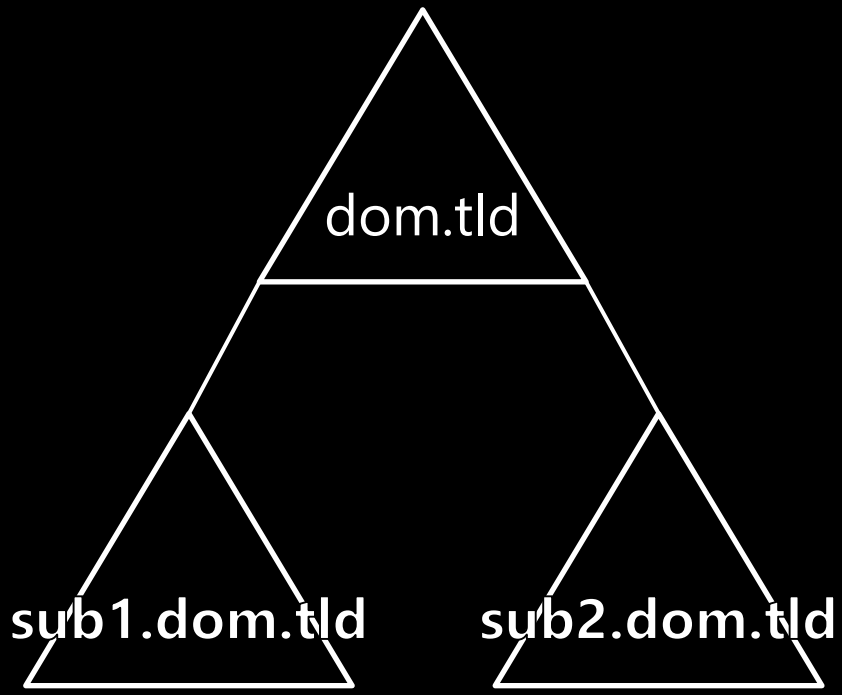


The Single Truth

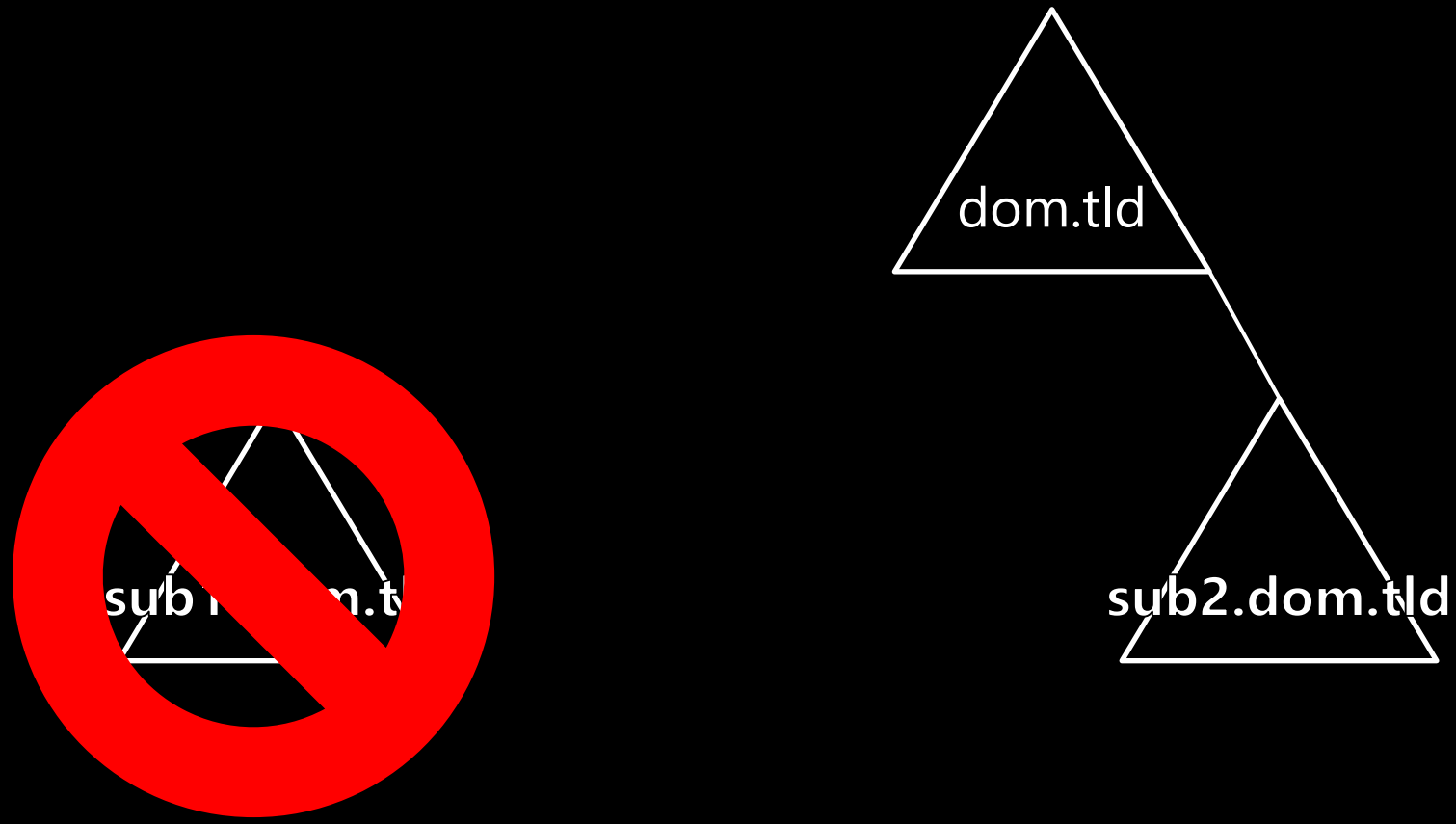




The Single Truth



The Single Truth



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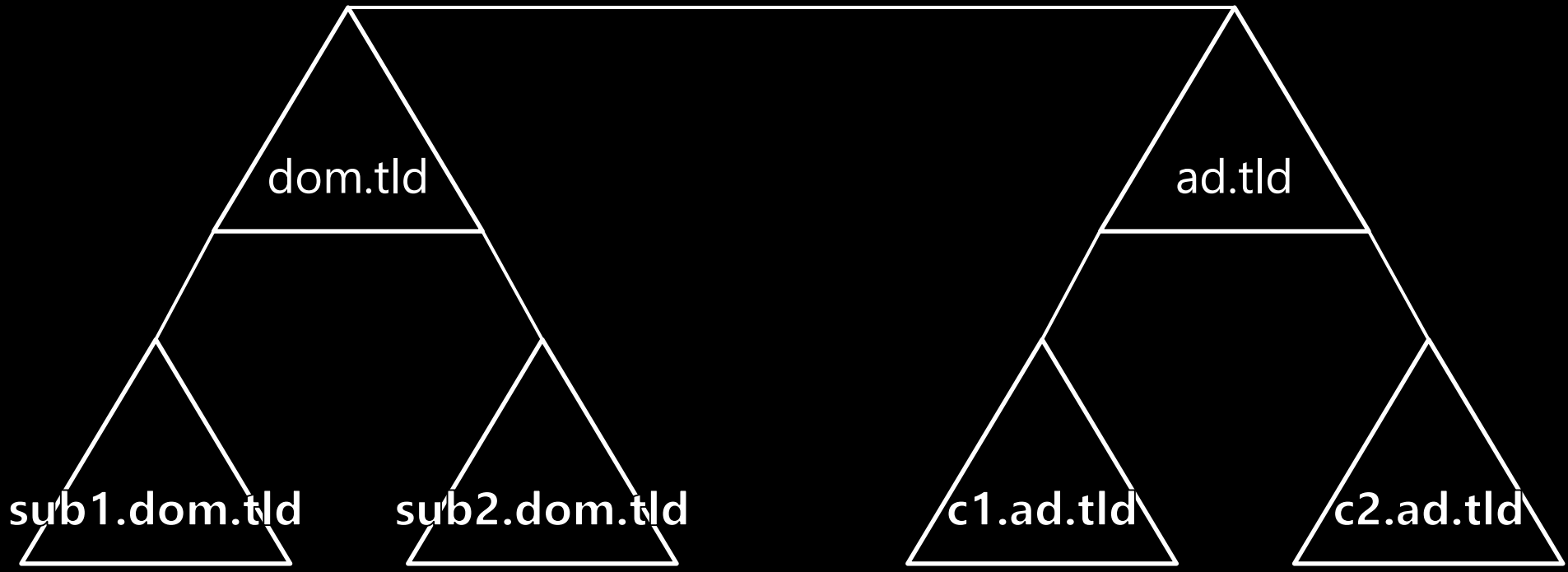
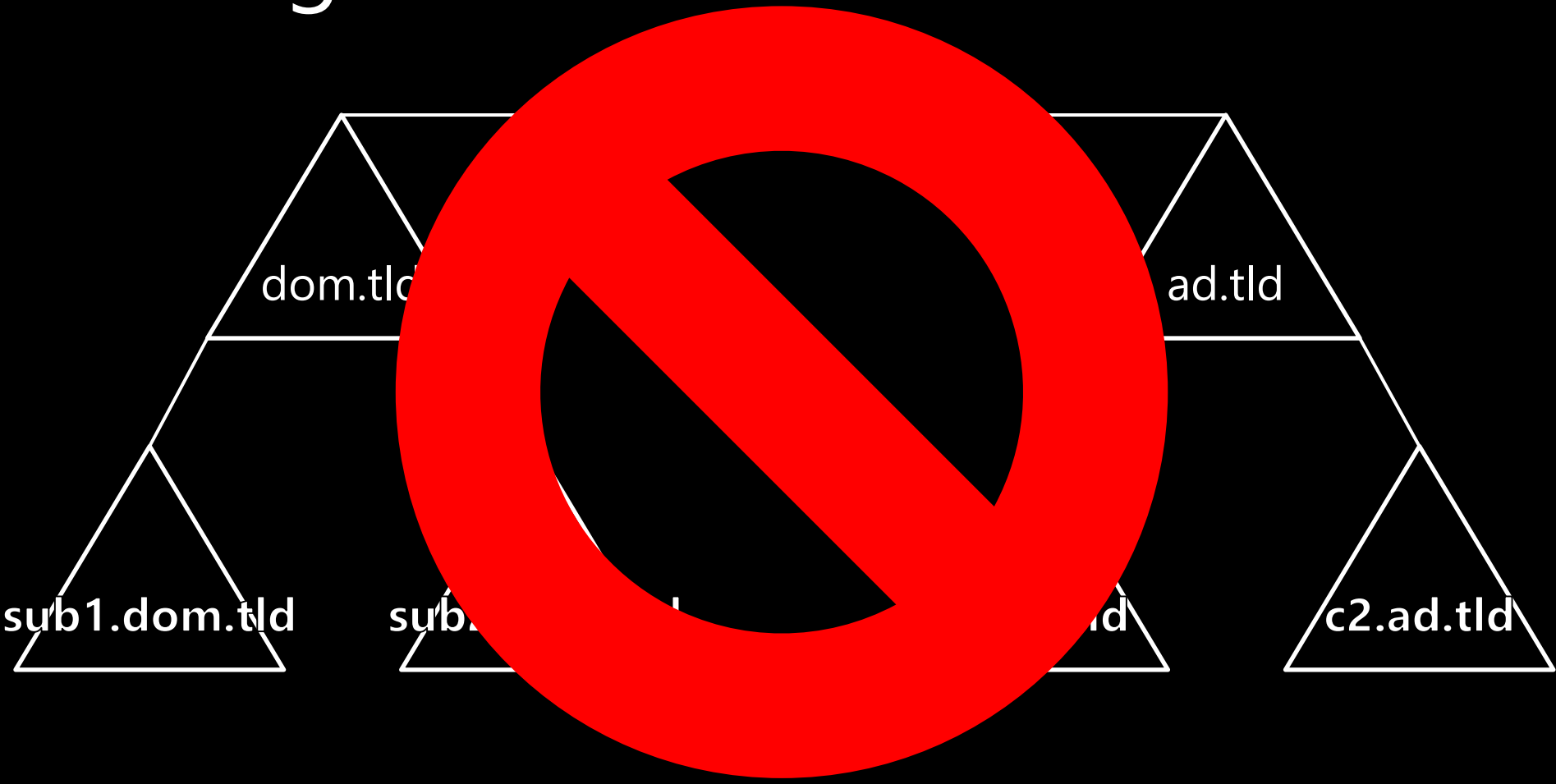
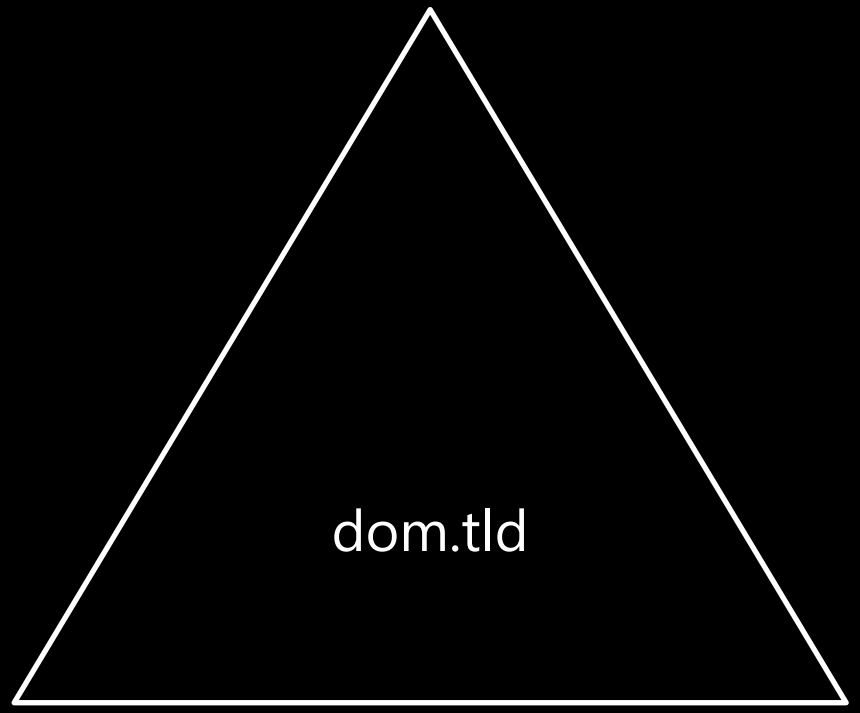


The Single Truth

The Single Truth



The Single Truth



OU-Struktur ≠ Organigramm

- Administration
  - dezentral
  - zentral
- Service-Konten
  - dezentral
  - zentral
- Server
  - <Typ 1>
  - <Typ 2>
- Benutzer
  - <Typ 1>
  - <Typ 2>
- Gruppen
  - organisatorisch
  - Berechtigungen
- Clients
  - <Typ 1>
  - <Typ 2>

- Administration
  - dezentral
  - zentral
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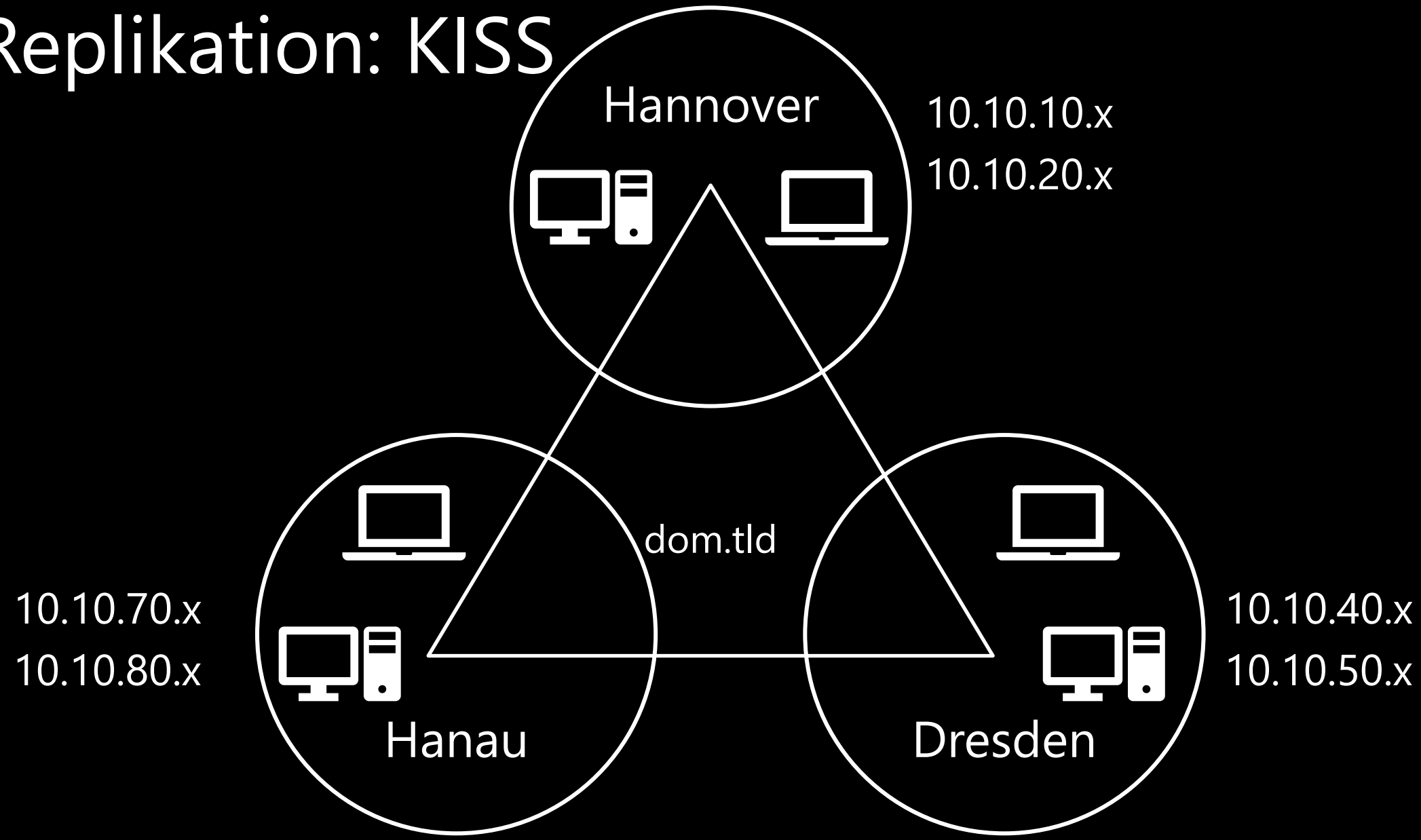
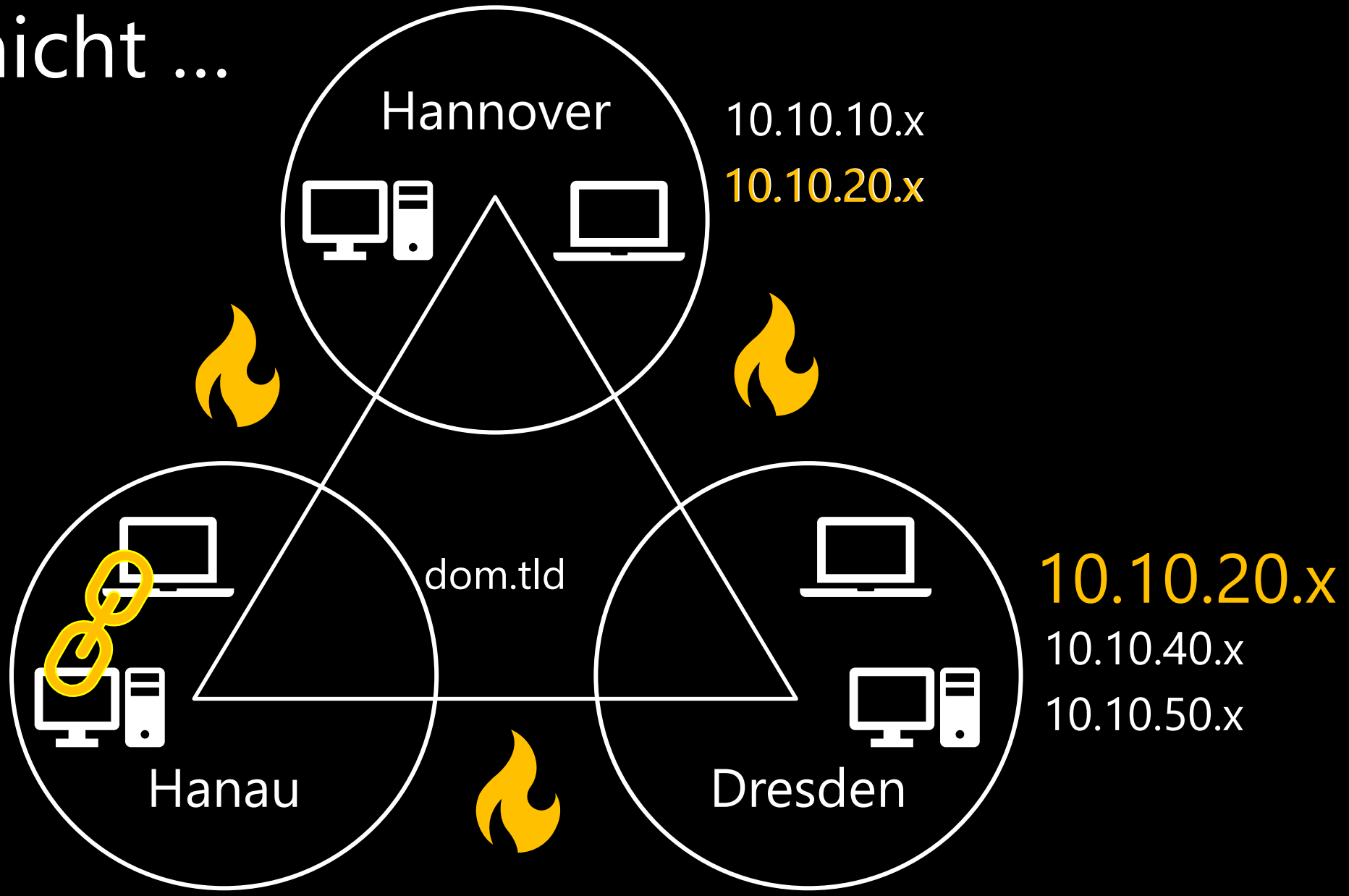
  - <Typ 1>
  - <Typ 2>
- Gruppen
  - organisatorisch
  - Berechtigungen
- Clients
  - <Typ 1>
  - <Typ 2>

Replikation: KISS



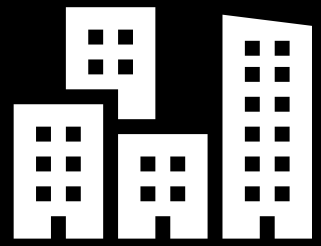
Lieber nicht …

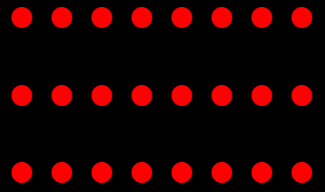


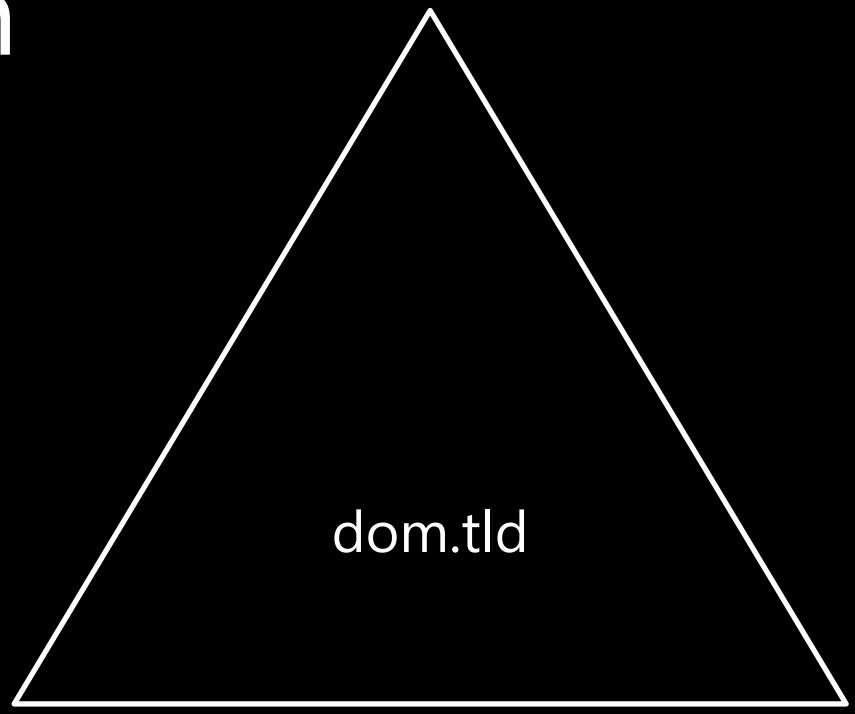
2

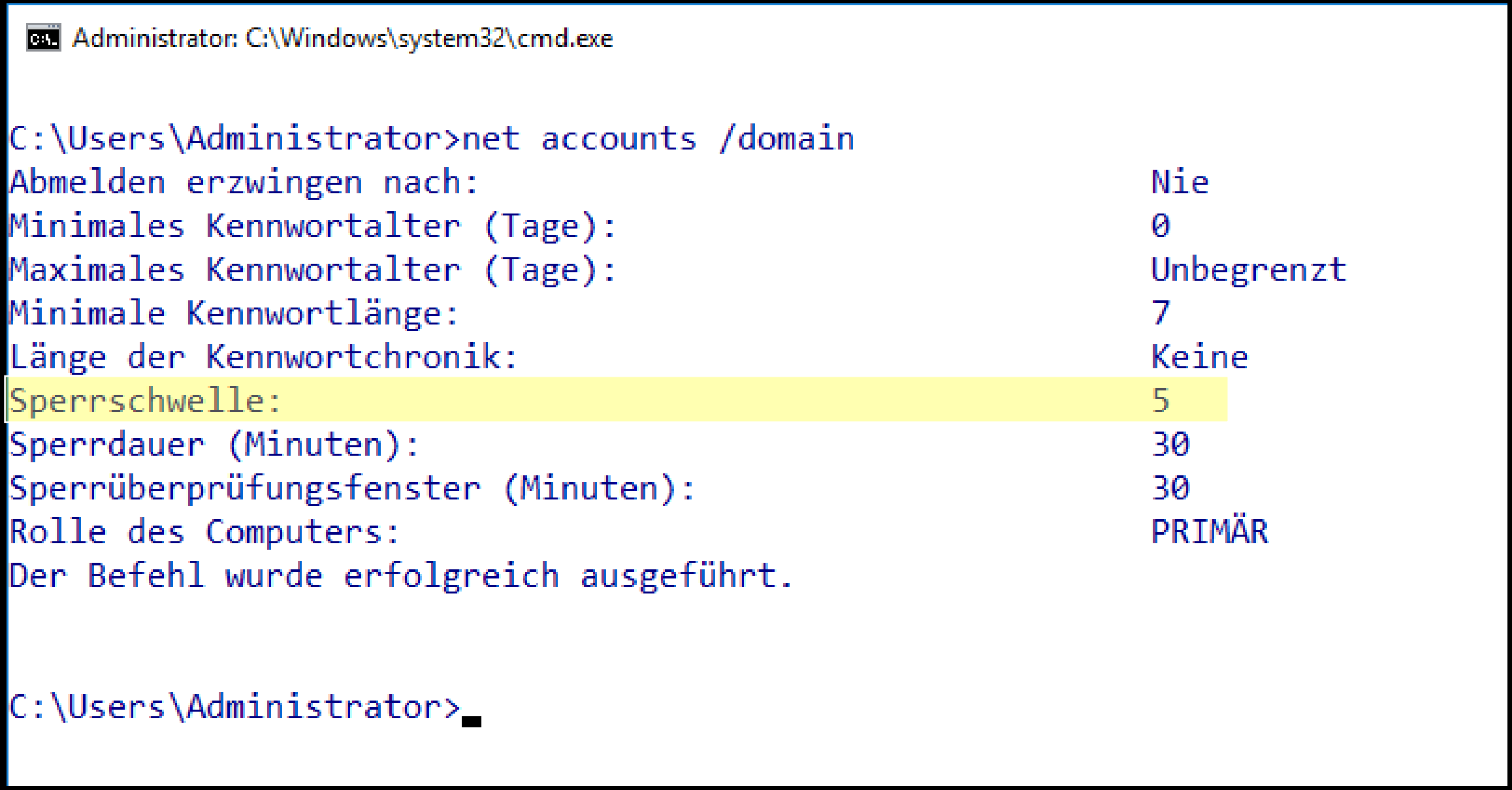
Sicherheit: Angriffe sind normal

Funktioniert seit 20 Jahren

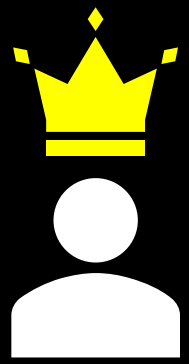




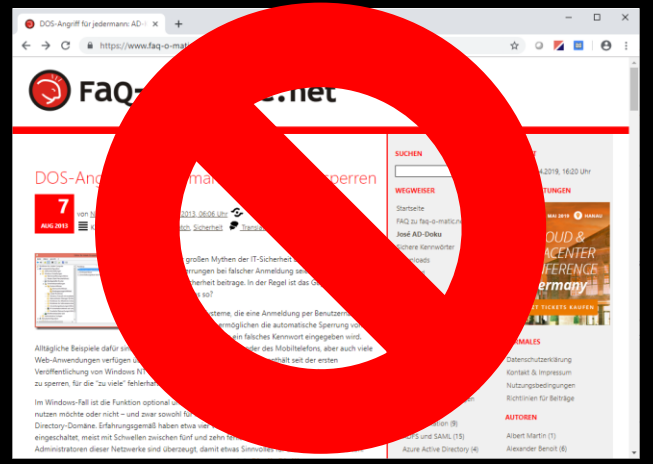



Administrator: C:\Windows\system32\cmd.exe
C:\Users\Administrator>net accounts /domain
Abmelden erzwingen nach: Nie
Minimales Kennwortalter (Tage): 0
Maximales Kennwortalter (Tage): Unbegrenzt
Minimale Kennwortlänge: 7
Länge der Kennwortchronik: Keine
Sperrschwelle: 5
Sperrdauer (Minuten): 30
Sperrüberprüfungsfenster (Minuten): 30
Rolle des Computers: PRIMÄR
Der Befehl wurde erfolgreich ausgeführt.
C:\Users\Administrator>

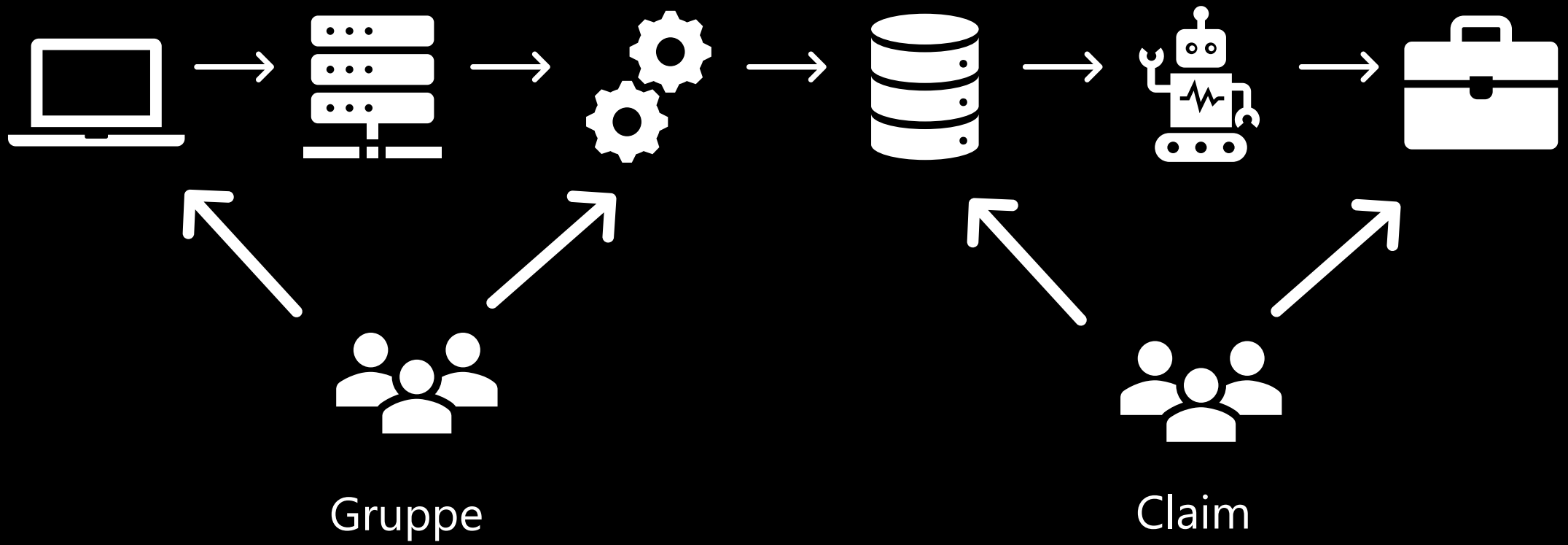
Rollen trennen



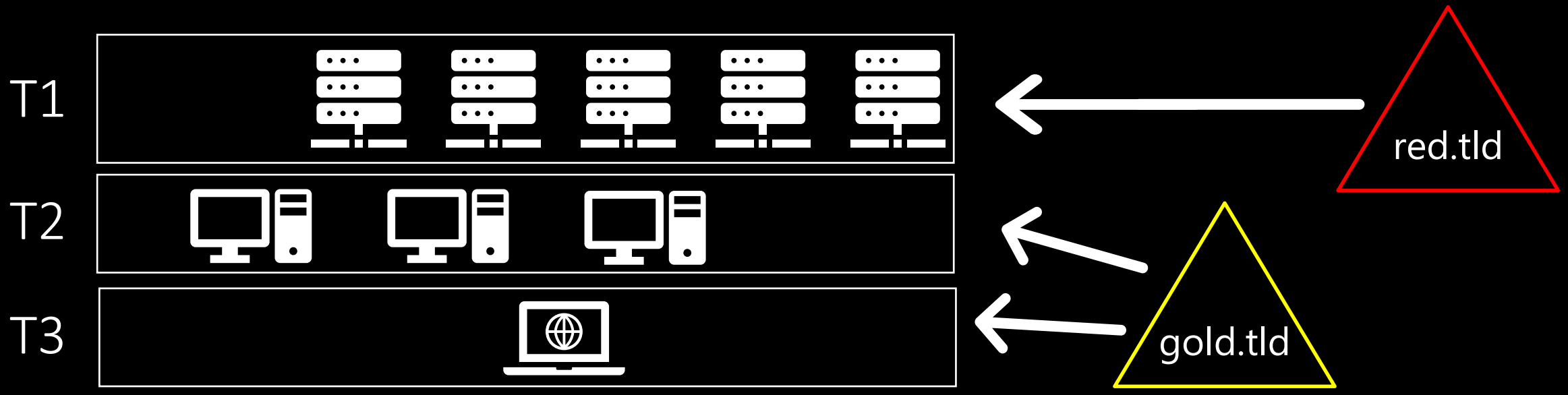
Rollen trennen



Rollen definieren



Admin Tiering: Rollen ernst gemeint



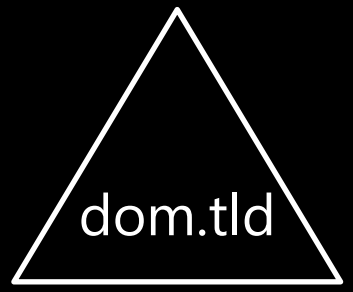
Suchbegriff: ESAE

3

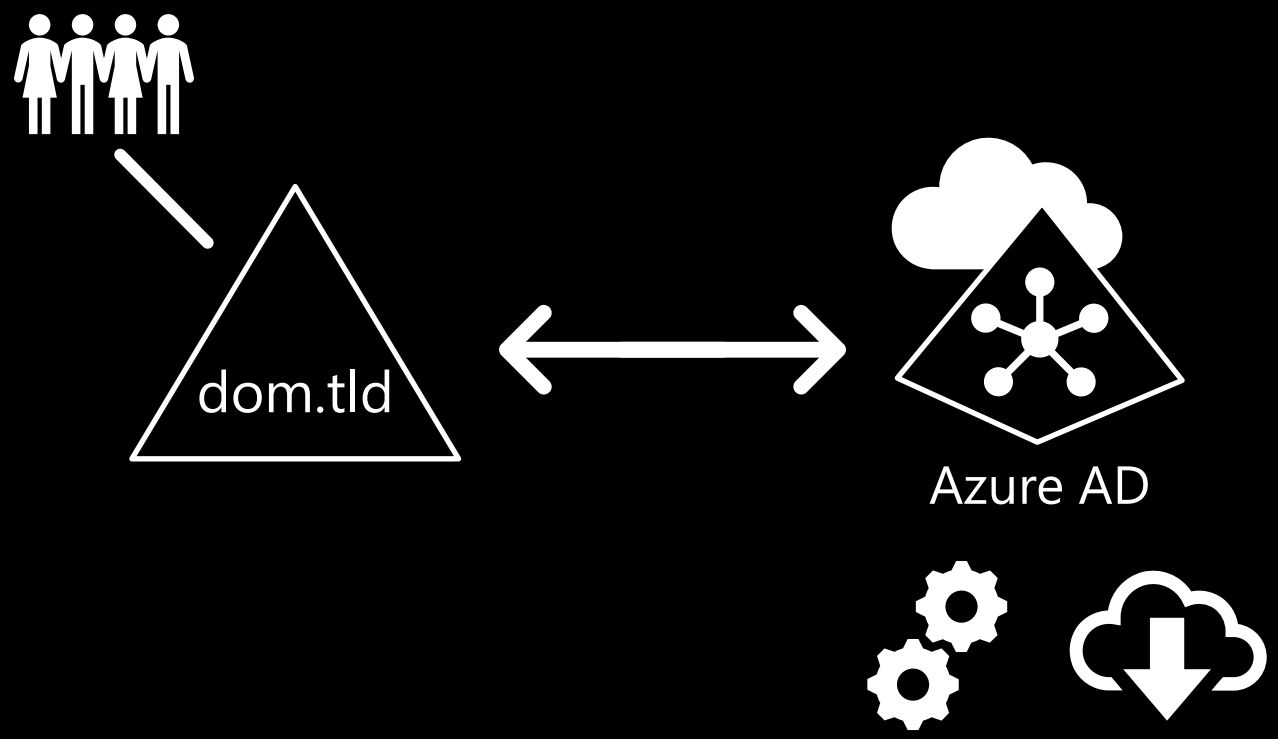
Hybrid-Design: Cloud und lokal

Identity is the new perimeter

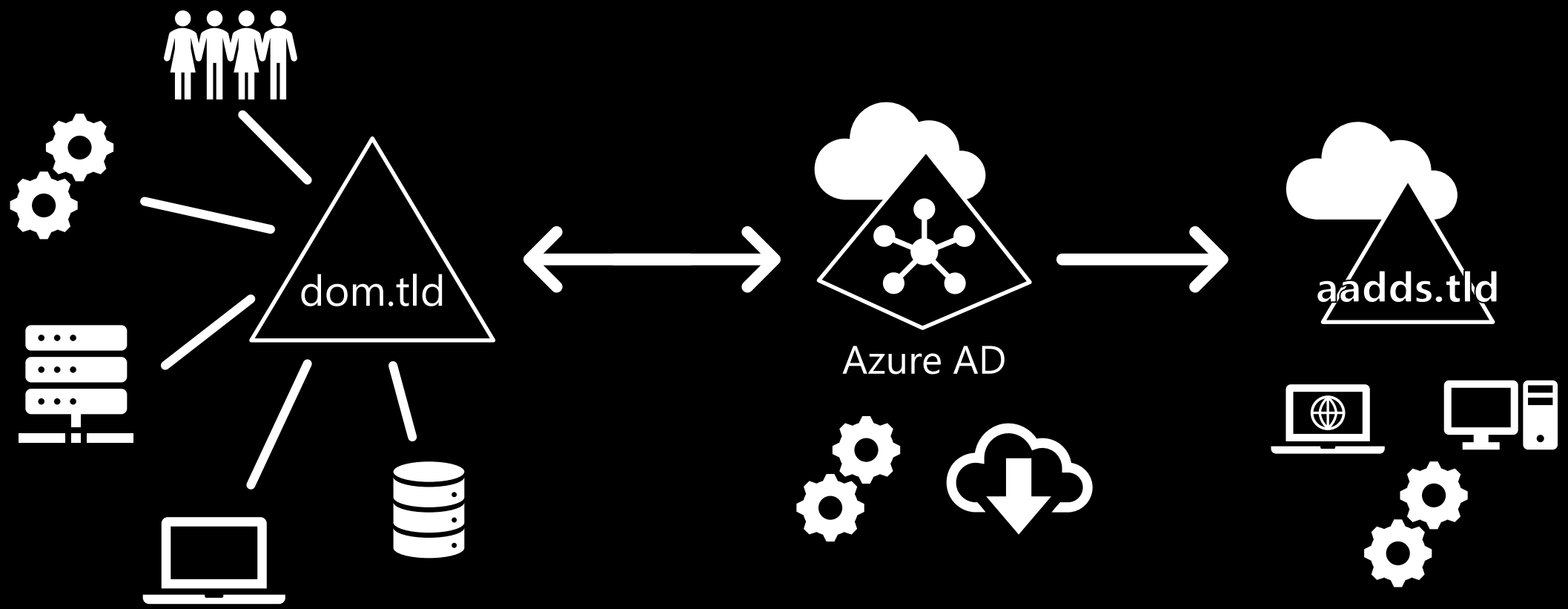
AD als lokaler Anker



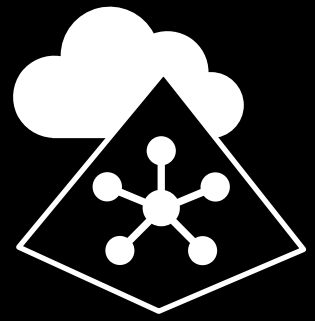
AD als lokaler Anker



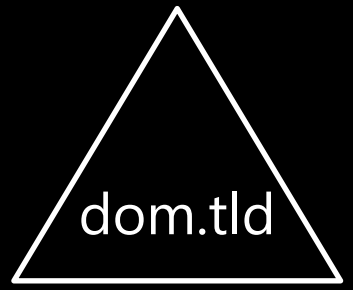
AD als lokaler Anker

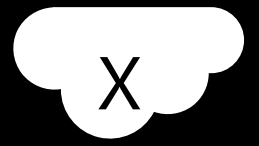


Federation

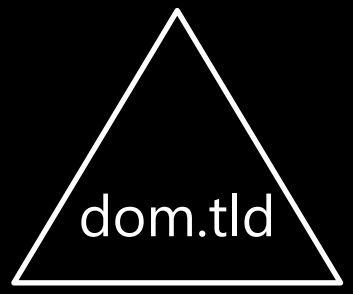


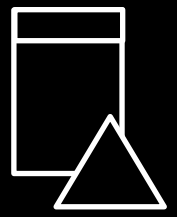
Azure AD

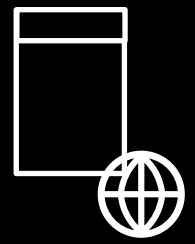




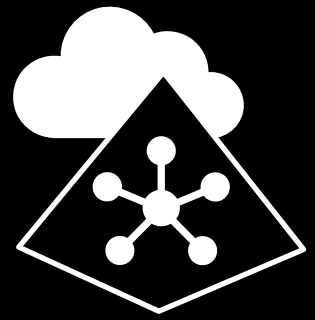
Federation





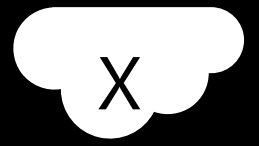


ADFS



Azure AD

SAML
OAuth
OpenID



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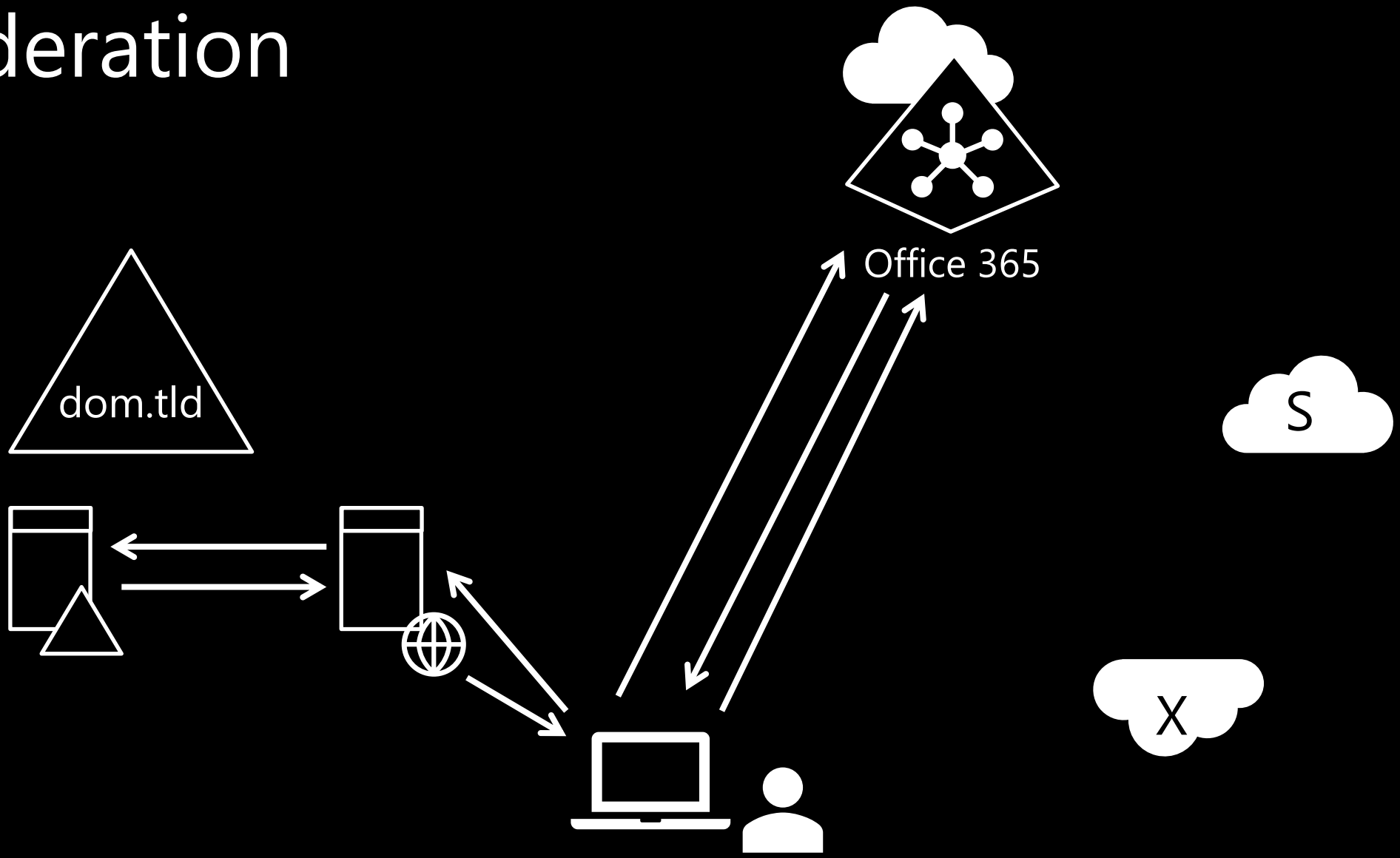
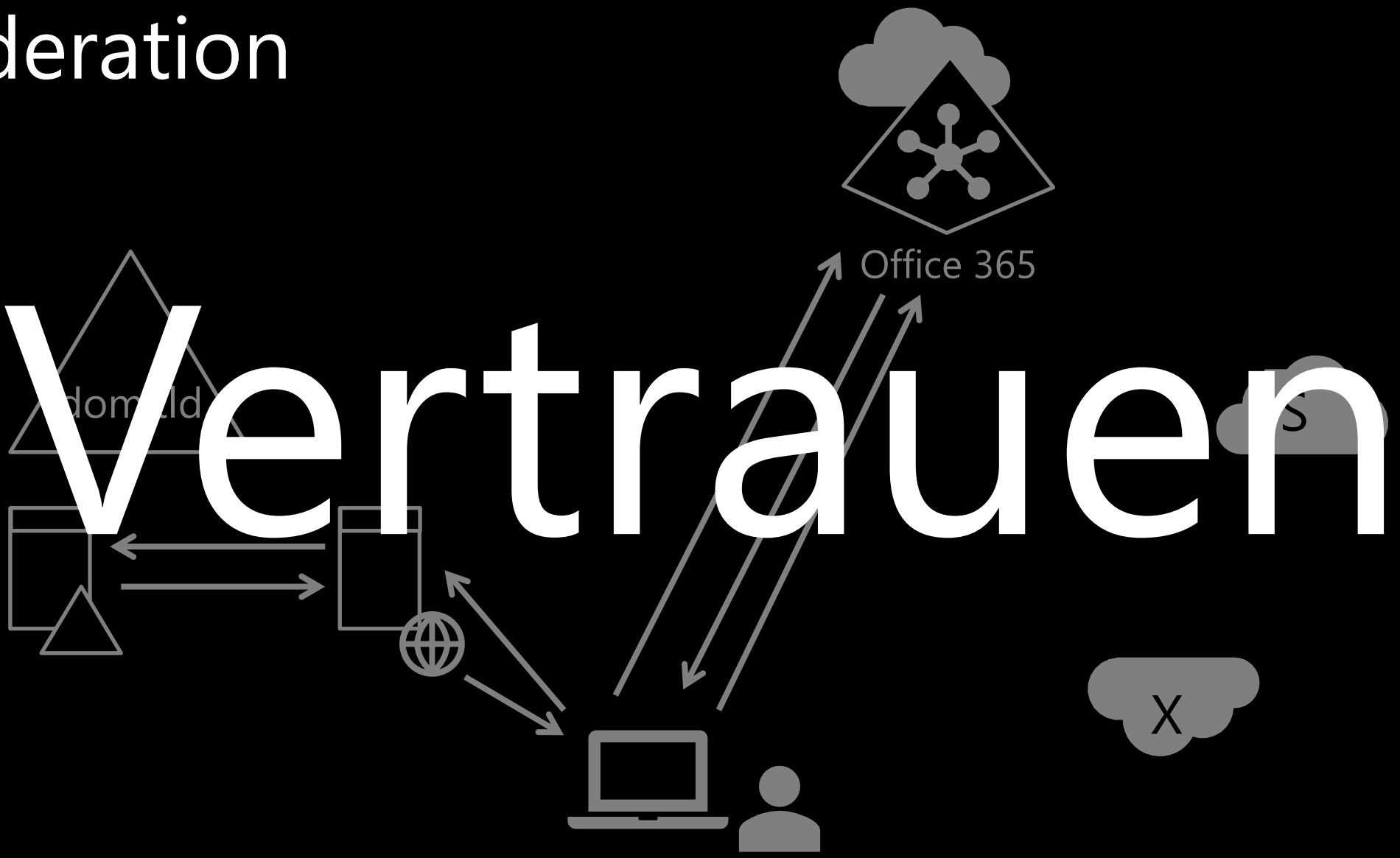
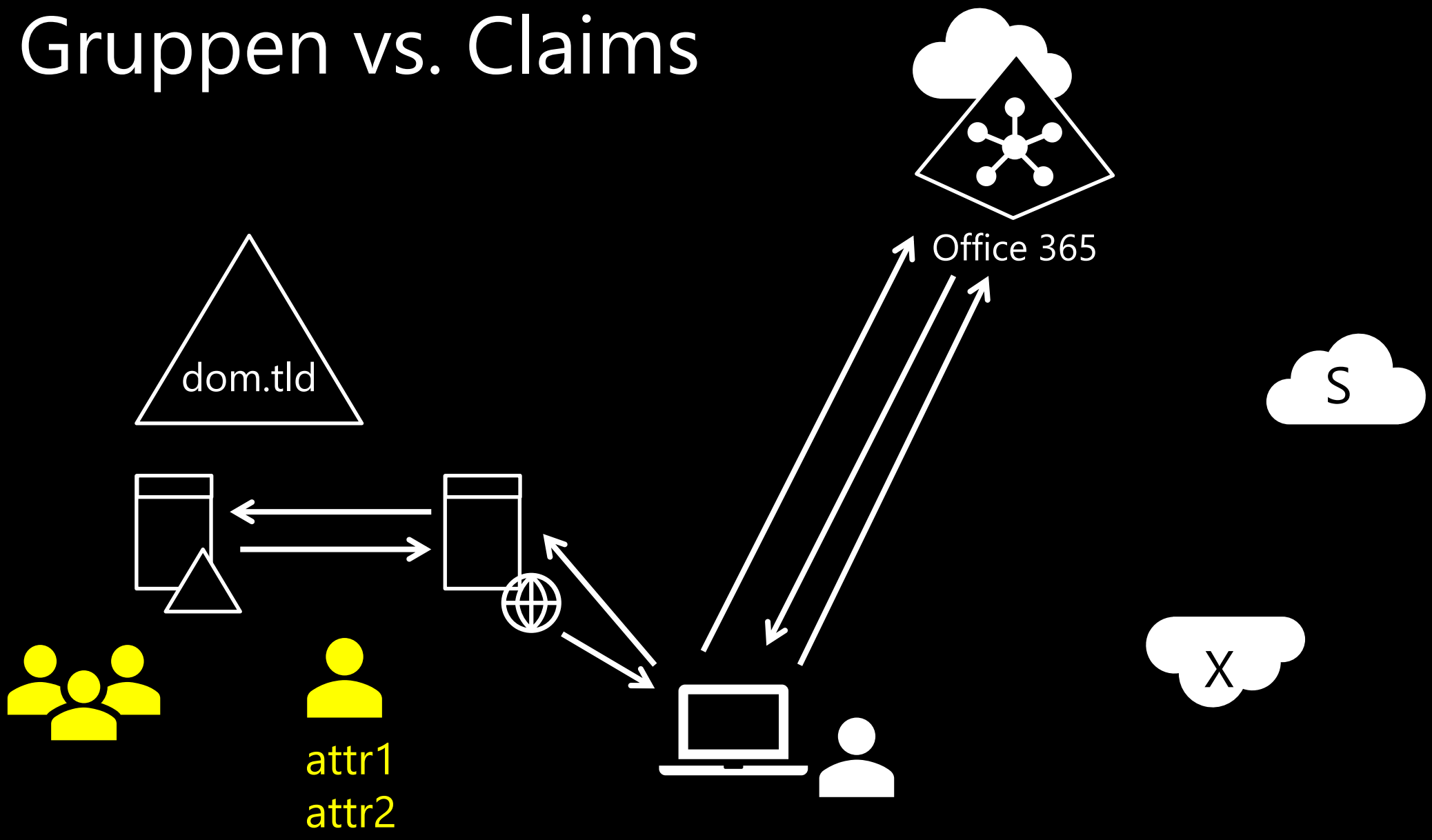


Federation



Vertrauen

Gruppen vs. Claims



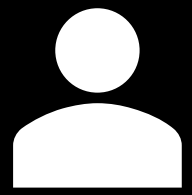
Design for change

Special: UPN für Azure-Auth

userPrincipalName

Benutzer EllenBogen@mydomain.org

Kennwort ••••••••••••••



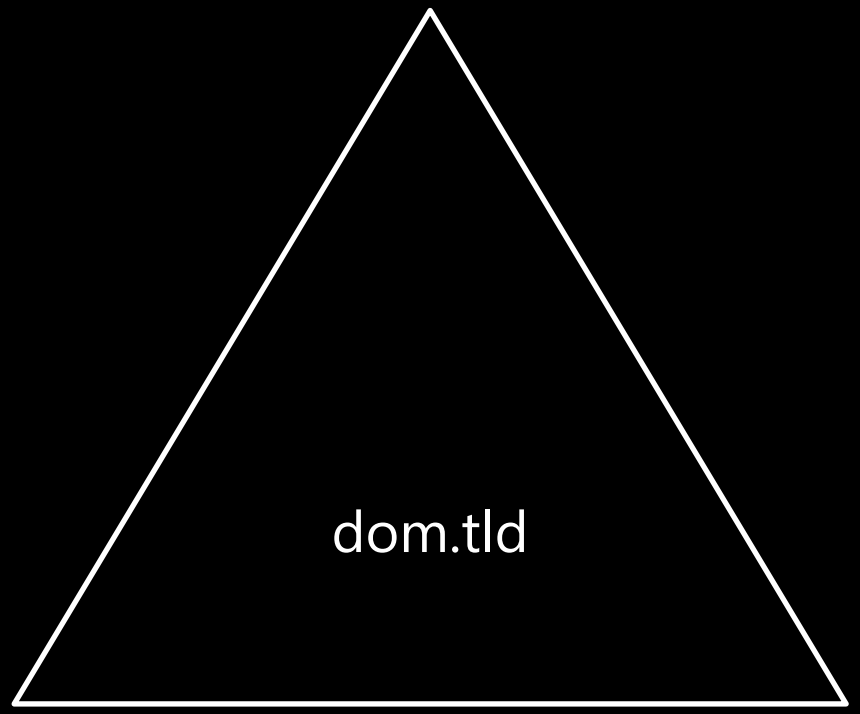
dom\EllenB

EllenB@dom.local

EllenBogen@mydomain.org

4

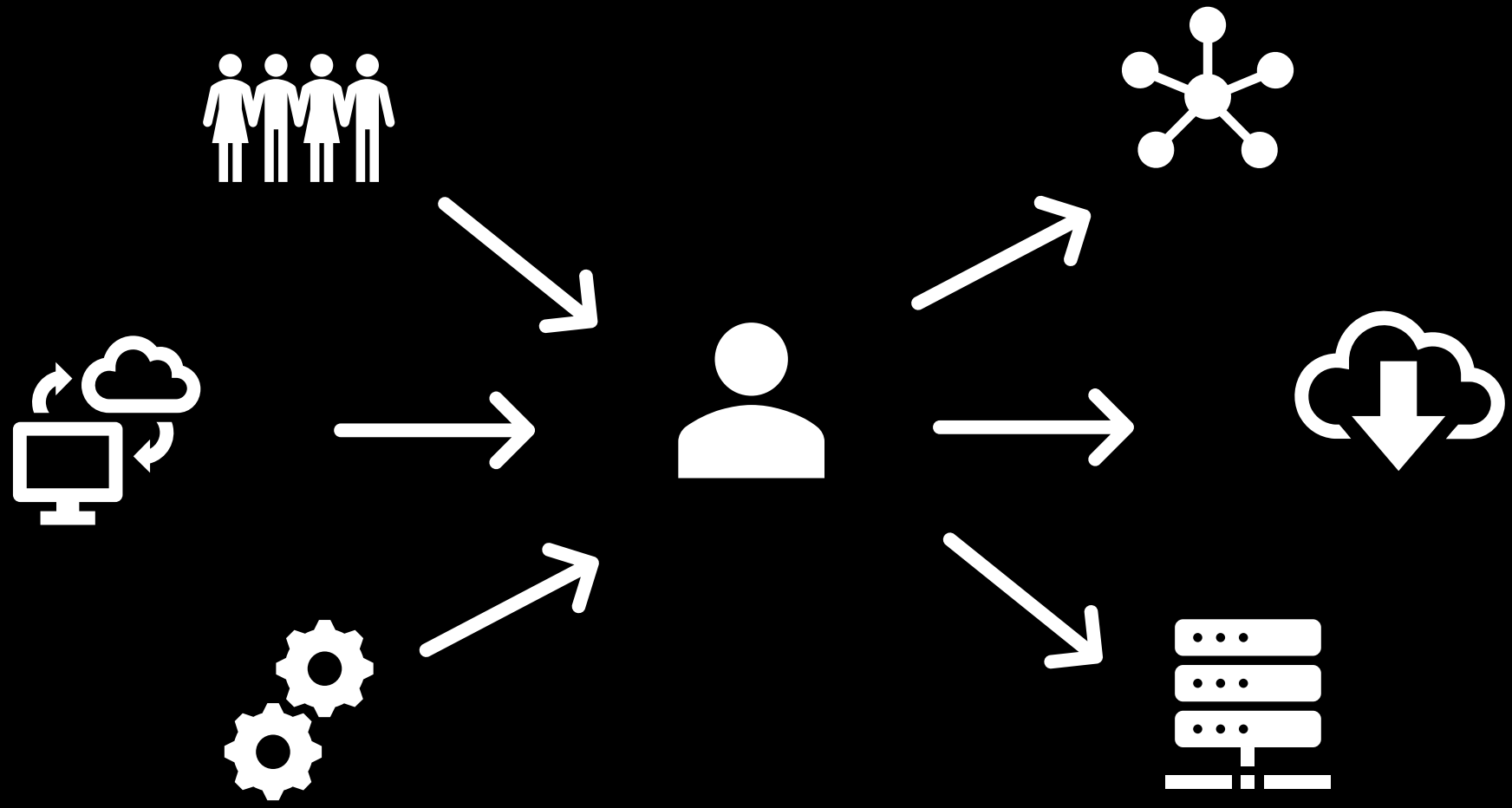
Datenpool: Teile und herrsche



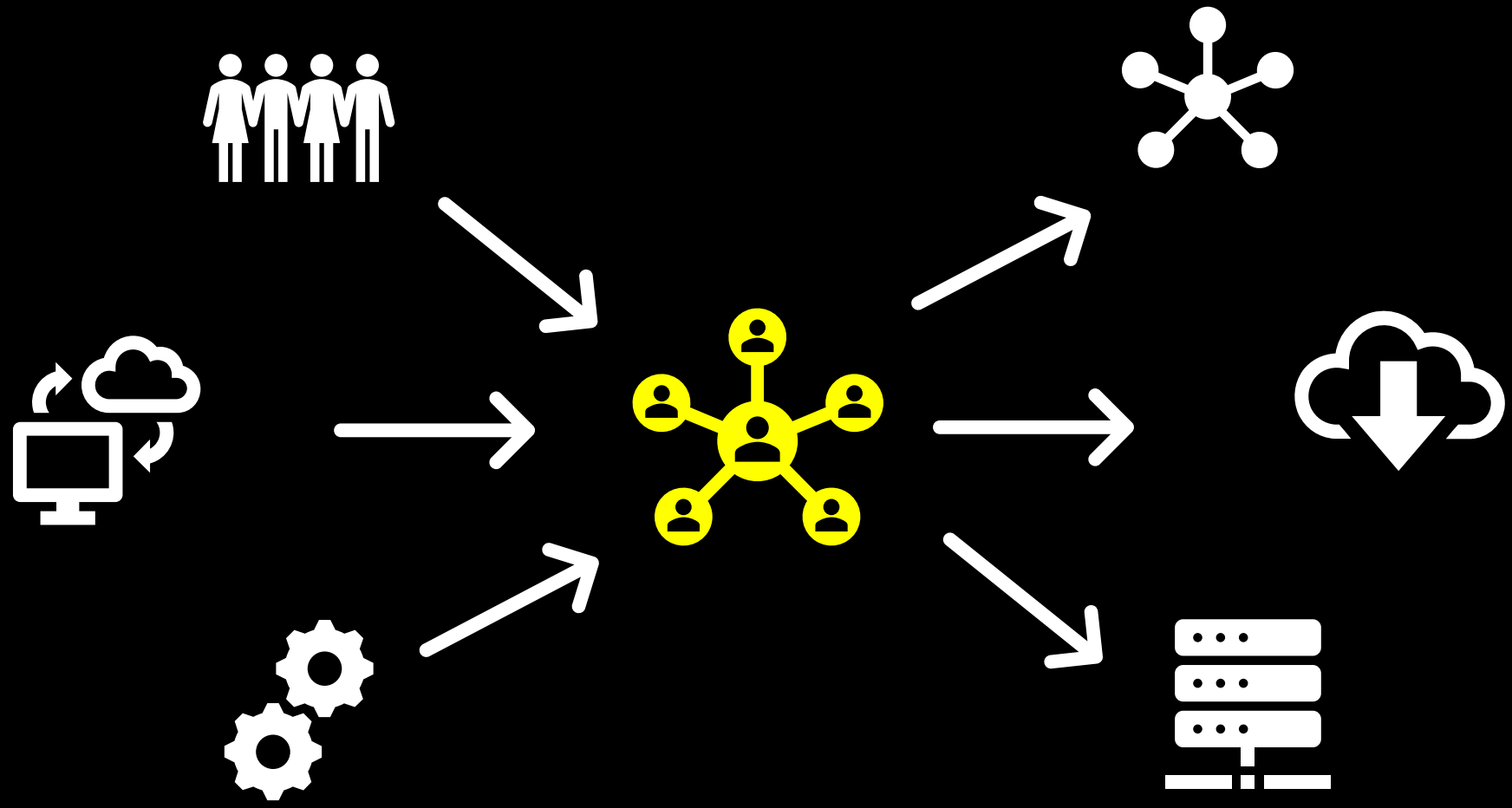
Zentraler Datenspeicher

Zentra eicher

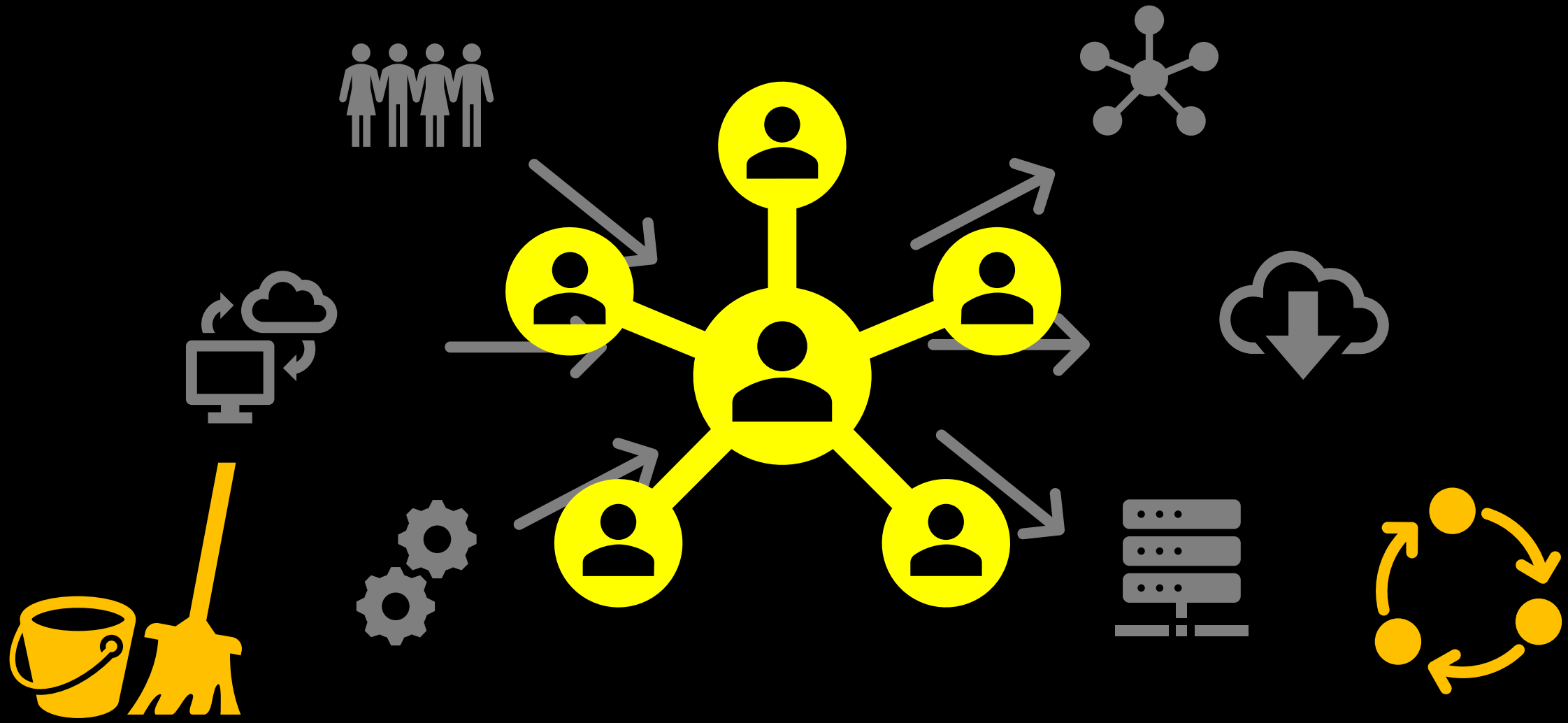
Identitätsdaten



Daten-Drehscheibe

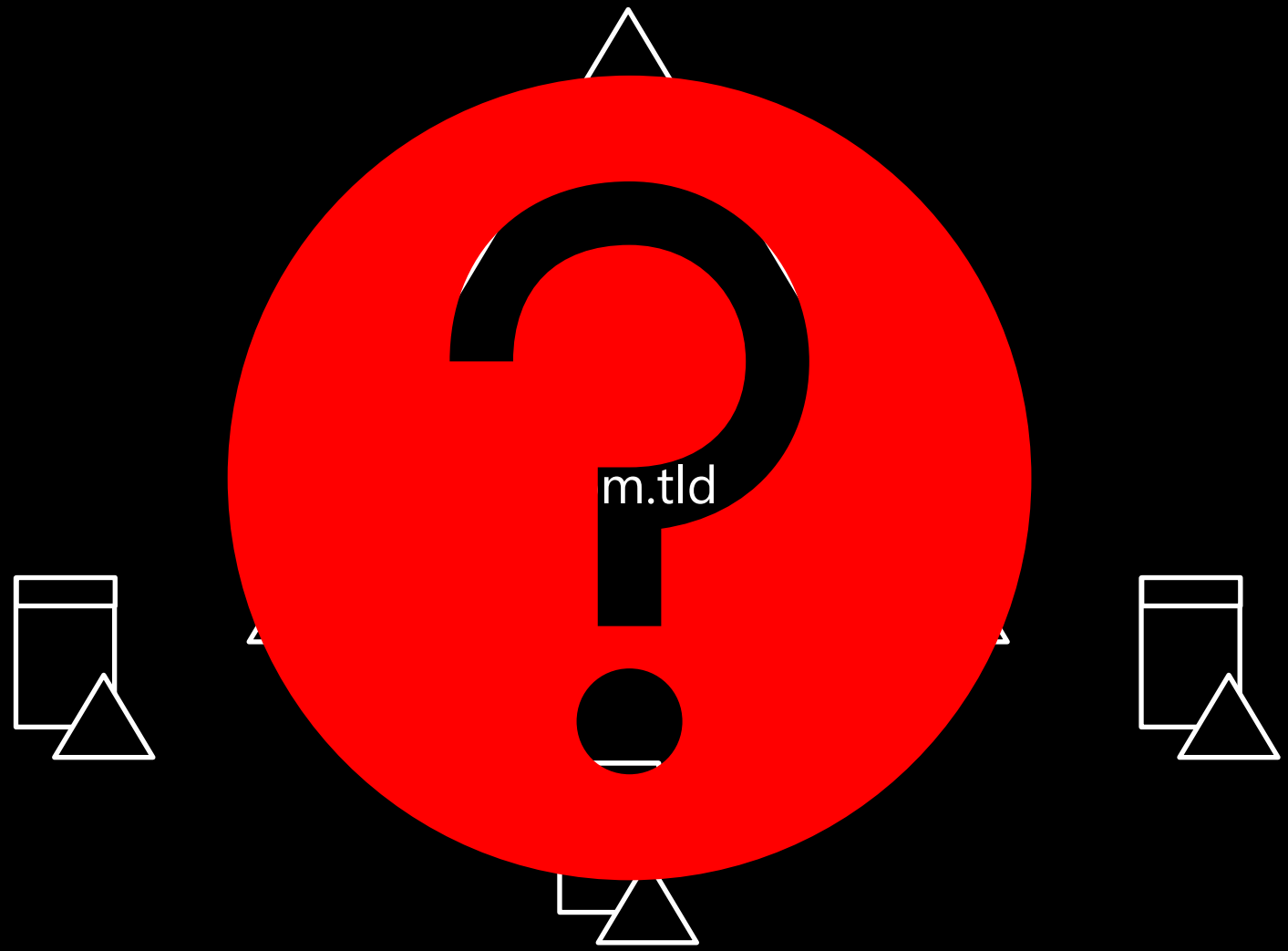


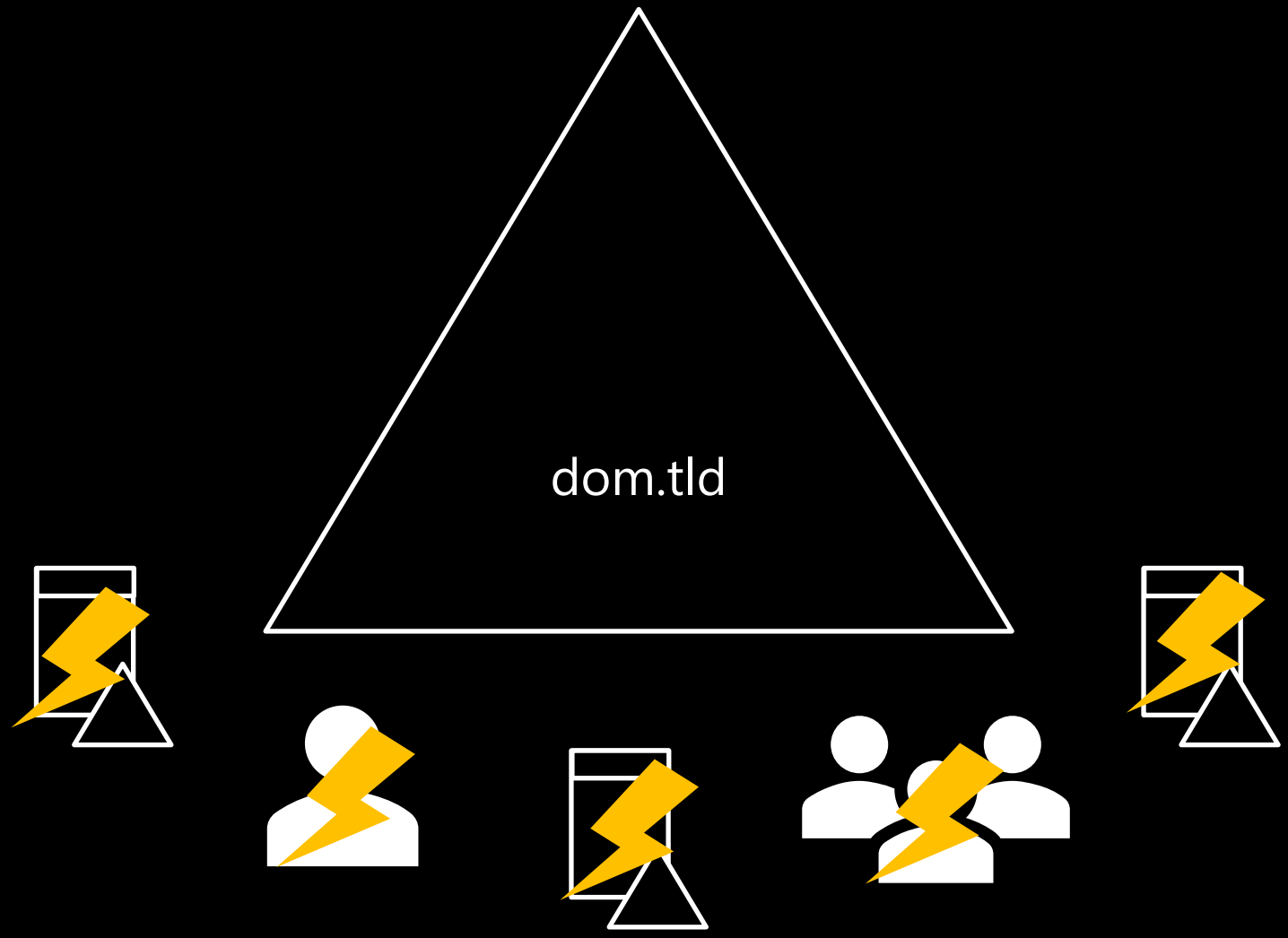
Daten-Drehscheibe



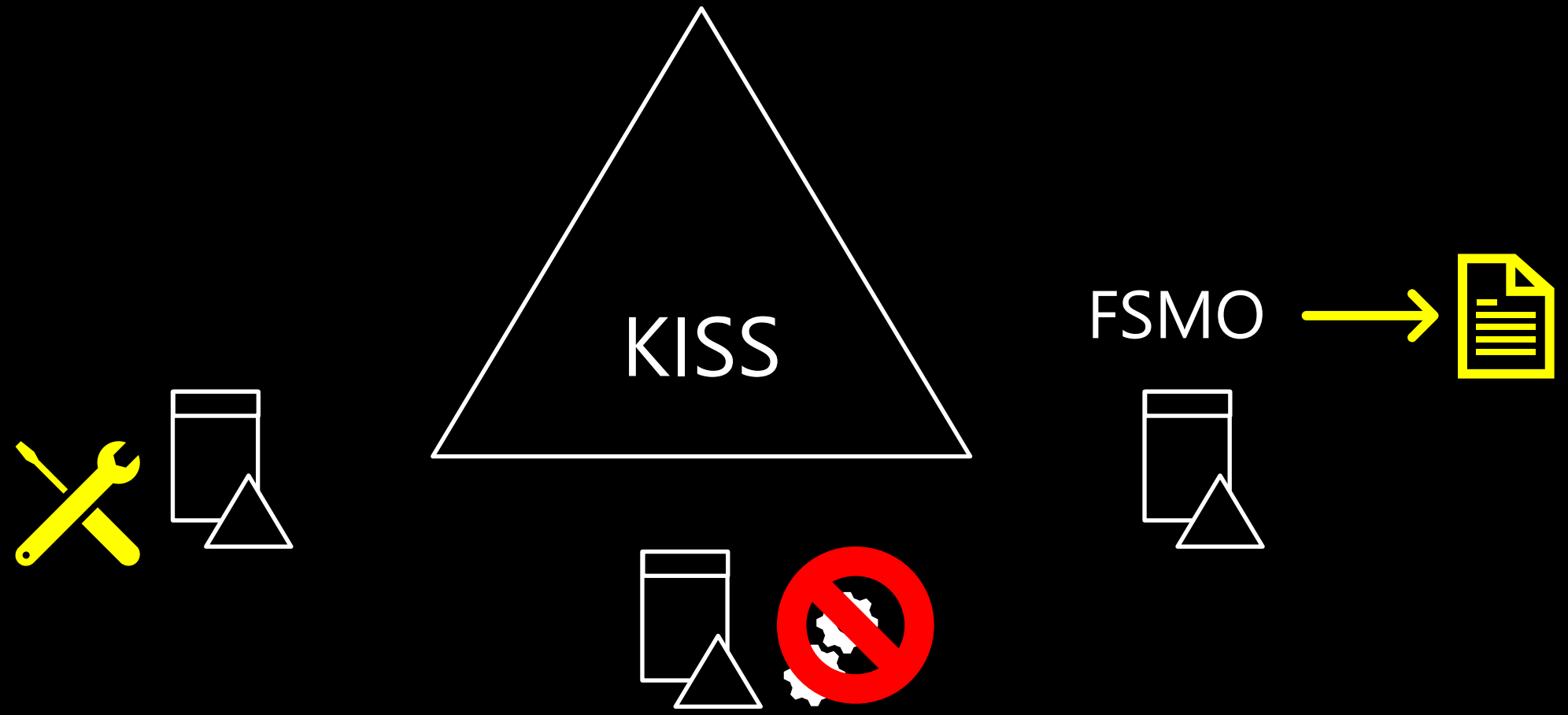
5

Notfall: Von hinten gedacht

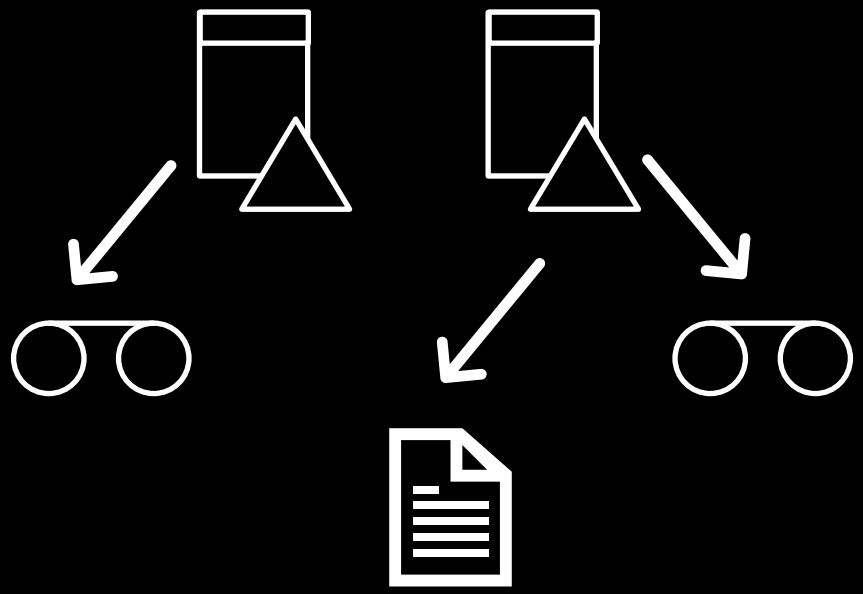

m.tld

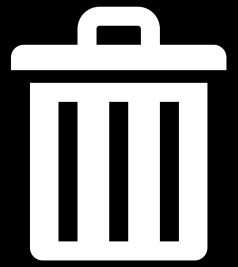

dom.tld

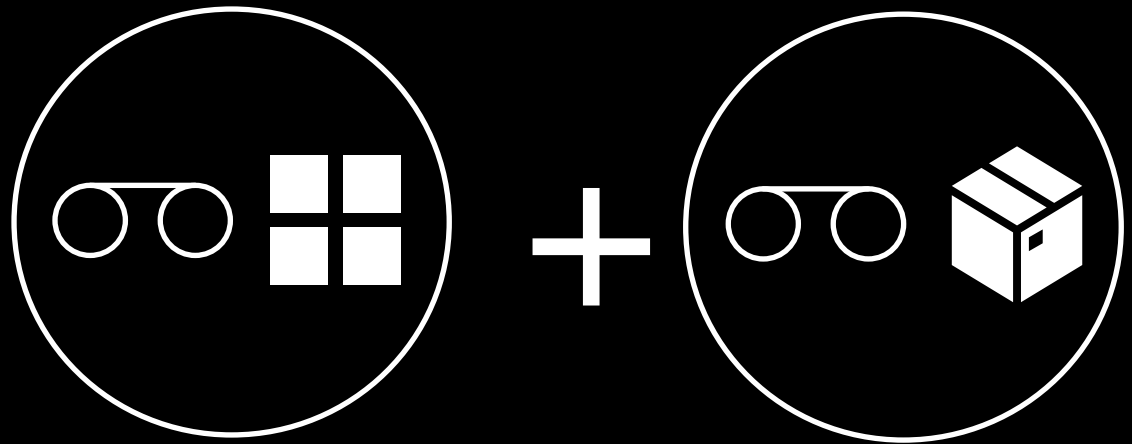
Das Design verhindert den Notfall



Cheat Sheet: AD-Backup



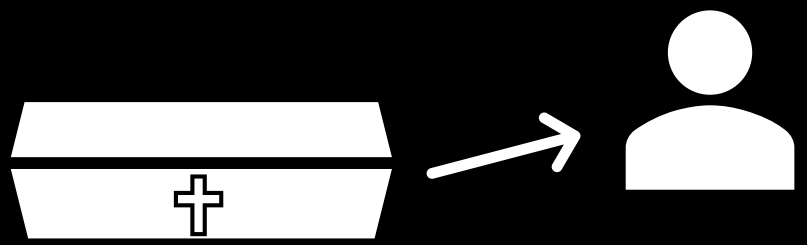


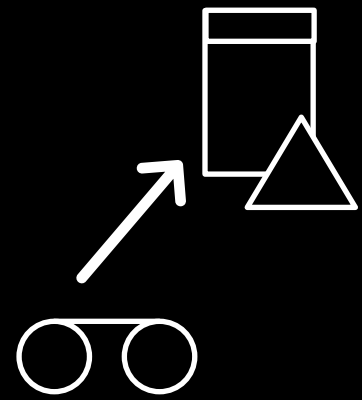


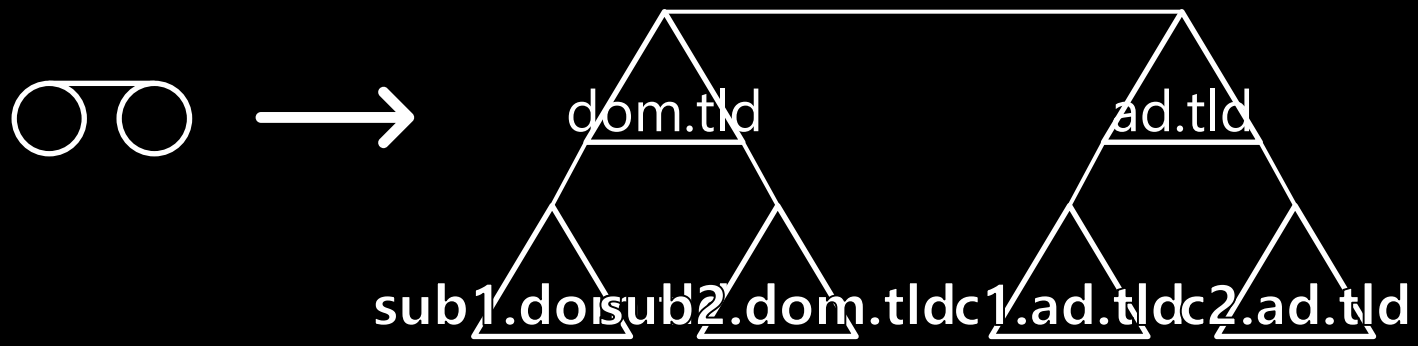
Cheat Sheet Cheat Sheet

- min. 2 DCs pro Domäne sichern
- Textexport aller Objekte bei jedem Backup
  - csvde -f C:\AD\exp.txt -u -l sAMAccountName,objectClass,description
- AD-Papierkorb aktivieren
- min. 1 Backup mit Windows Server Backup (Systemstate)
- Andere Produkte nur als Ergänzung

Üben. Ernsthaft.







Zum Mitnehmen

- 1 Design: Fundament für Identitäten
  - AD-Design prüfen: Einfach genug?
  - Objektorientiert aufbauen
- 2 Sicherheit: Angriffe sind normal
  - Rollen trennen
  - Red Forest Design
- 3 Hybrid-Design: Cloud und lokal
  - AD ist der Identitäts-Anker
  - Namensräume planen
- 4 Datenpool: Teile und herrsche
  - Alle Daten an ihrem Platz
  - Datenverteilung steuern
- 5 Notfall: Von hinten gedacht
  - Das Design verhindert den Notfall
  - Recovery üben