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- Software Architect at Evolveum
- Architect of midPoint identity platform
- Open source professional
- **Identity** practitioner since early 2000s
- Retired Apachee Foundation committer





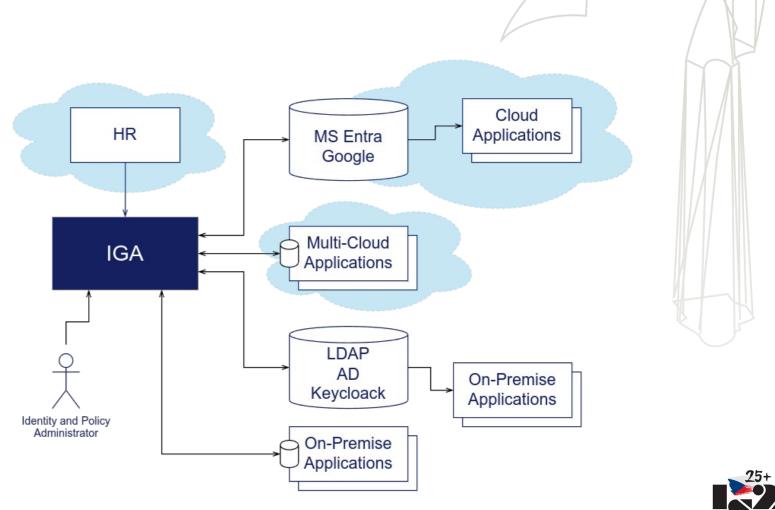






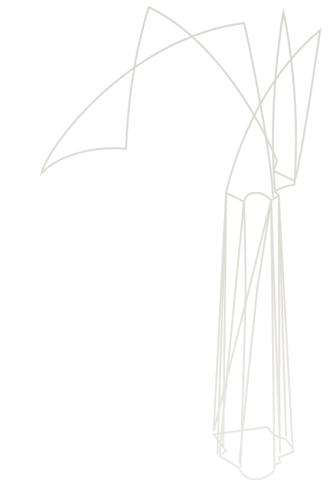
Identity Management and Governance

- It is **not** authentication
- Identity inventory
- Identity lifecycle
- Access control policies
- Governance = high-level policies
- Responsibilities (e.g. owners)
- IGA: Identity Governance and Administration
- Often (shamefully) neglected



If you do not have identity governance, you have no cybersecurity.

Cybersecurity is all about users - their actions, permissions, the value they create and the risk they are posing. If you do not control the users, you control nothing. All your cybersecurity is just an illusion.





Dead Ends / Antipatterns / Bad Practice / Myths

- Simple, easy to understand and wrong
- Identity can be very counter-intuitive
- Dead ends: based on more than two decades of IAM experience
 - + experience from development and use of midPoint

Big Bang

My Data Are Perfect

Al Will Fix It

IAM Is Authentication

IGA Is Access Control

Policies Are Easy

Identity Project

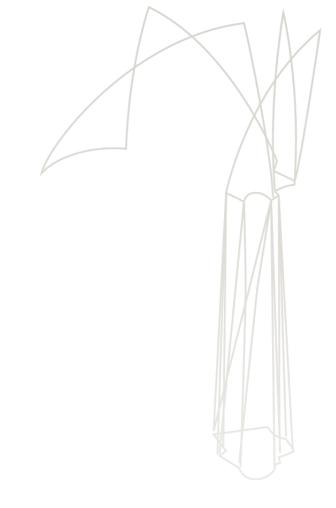
RBAC Is Dead

Access Review Obsession



First Steps In Identity

Usual start: authentication [WRONG]
 Strong authentication of unmanaged accounts => vulnerability





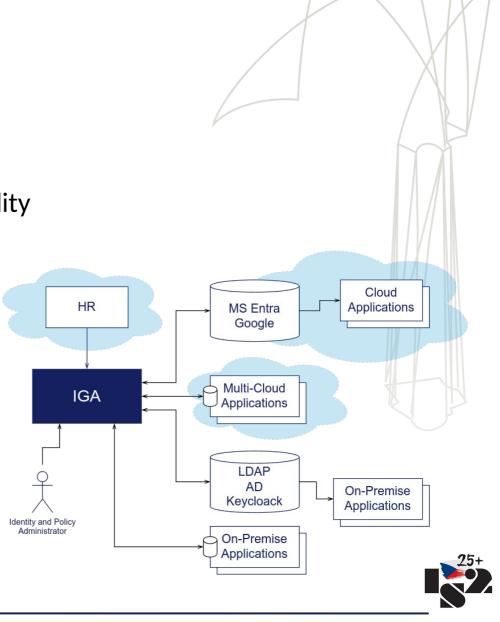
First Steps In Identity

- Usual start: authentication [WRONG]
 Strong authentication of unmanaged accounts => vulnerability
- Identity cannot be an afterthought
- Start with management: inventory, ownership, lifecyle, detect orphaned accounts

[CORRECT]

• Recommendation:

Start your IGA effort early.
It may be "light" IGA, yet it is necessary.

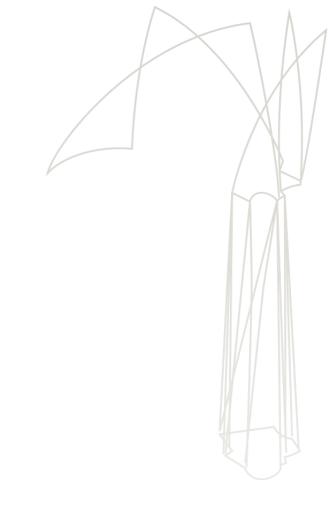


My Data Are Perfect

• Usual start: Raw HR data

li+v,

Data never cross-checked => low quality





[WARNING]

My Data Are Perfect

Usual start: Raw HR data
 Data never cross-checked => low quality

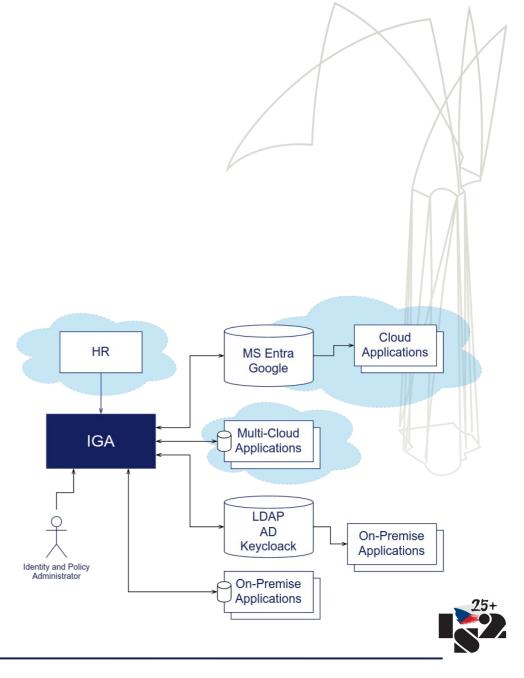
- Data quality is critical for policies and automation
- Clean up the data before use: synchronization, correlation, linking

[CORRECT]

[WARNING]

Recommendation:

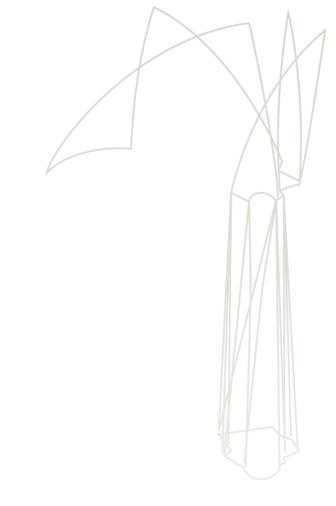
Cortelate and compare source data (HR) with target systems (AD, Entra) to clean up data.



Identity Project

• Identity as a **project** [WRONG]

Big bang, fixed scope, fixed deadline => failure





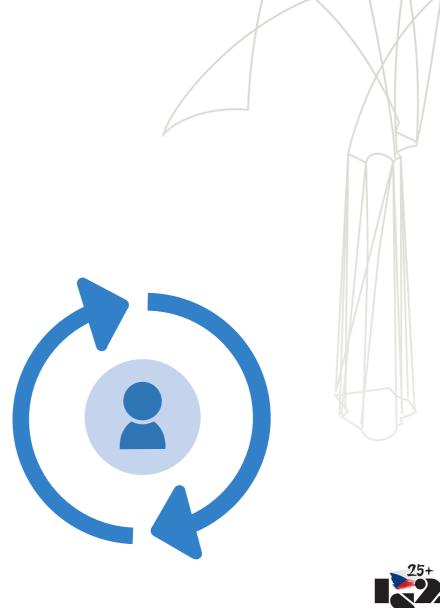
Identity Project

- Identity as a **project** [WRONG] Big bang, fixed scope, fixed deadline => failure
- Identity effort never ends
- Identity is a **program**: iterative and incremental

[CORRECT]

Recommendation:

Start small, proceed in increments. Create sustainable program.



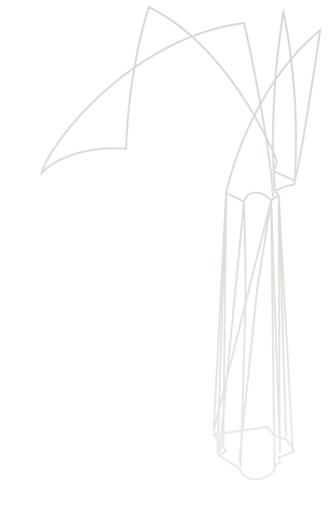


Access Control

• Policies are easy!

[WRONG]

RBAC is dead, we need to use ABAC/PBAC => huge complexities





Access Control

- Policies are easy! [WRONG]
 RBAC is dead, we need to use ABAC/PBAC => huge complexities
- Policy is complex, and usually not completely known
- Righ tool for the job: regular access → algorithmic ABAC/PBAC irregular access → dynamic RBAC handling of policy exceptions

[CORRECT]

• Recommendation:

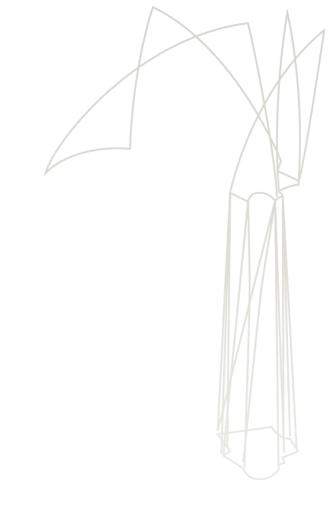
Bottom-up approach: build roles/policies from current state.





Governance vs Management

We set up policies and we are done. [WRONG]
 Policies without proper maintenance => policy rot

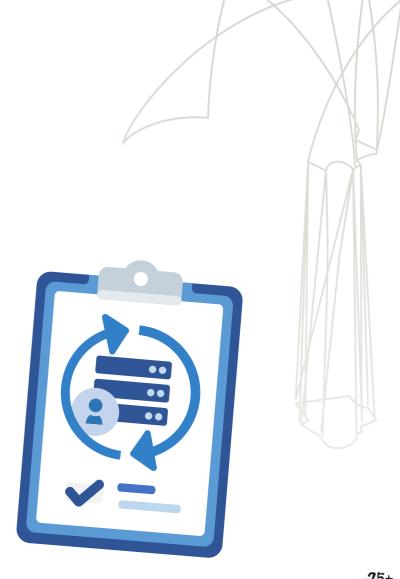




Governance vs Management

- We set up policies and we are done. [WRONG]
 Policies without proper maintenance => policy rot
- Everything needs care and maintenance
- Governance is all about **responsibility**: [CORRECT] inventory, ownership, classification, review
- Recommendation:

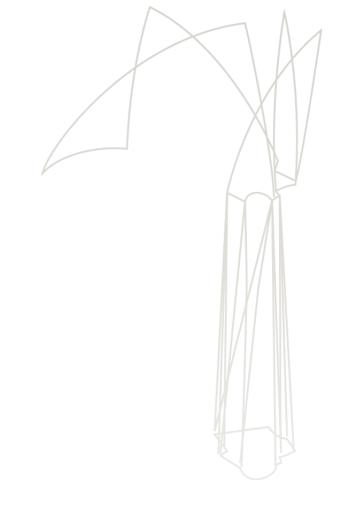
Set up high-level policies to watch over governance. (e.g. checking that every application has an owner)





Acess Review Obsession

Reduce access using access review [WRONG]
 Massive access review campaigns => huge effort, small effect





Acess Review Obsession

- Reduce access using access review [WRONG]
 Massive access review campaigns => huge effort, small effect
- Review fatigue, rubber-stamping
- Policies and automation over reviews [CORRECT]

Recommendation:

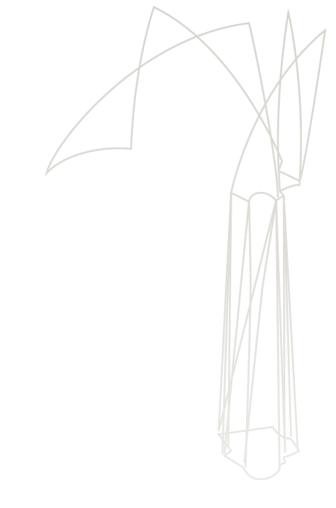
Focused campaigns: risk, privileged access. Prefer micro-certifications (micro-reviews). Bottom-up approach to create policies.





Artificial Intelligence Will Fix It All

Al will do all the things that we cannot [WRONG]
 Over-reliance on Al => your bad decisions get entrenched



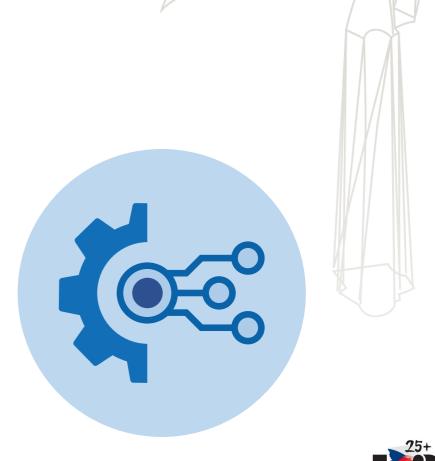


Artificial Intelligence Will Fix It All

- AI will do all the things that we cannot [WRONG]
 Over-reliance on AI => your bad decisions get entrenched
- Nobody knows how your policies should look like
- Human expertise is still essential [CORRECT]
 Al can make human experts more efficient

Recommendation:

Keep human expert in the loop. Start with proven techniques: role mining, outliers. Require *explainability* of AI-based recommendations.





Conclusion

Identity management & governance is necessary for cybersecurity ... yet, it can be confusing

Identity myths https://docs.evolveum.com/iam/myths/

Key recommendation: iterative approach





