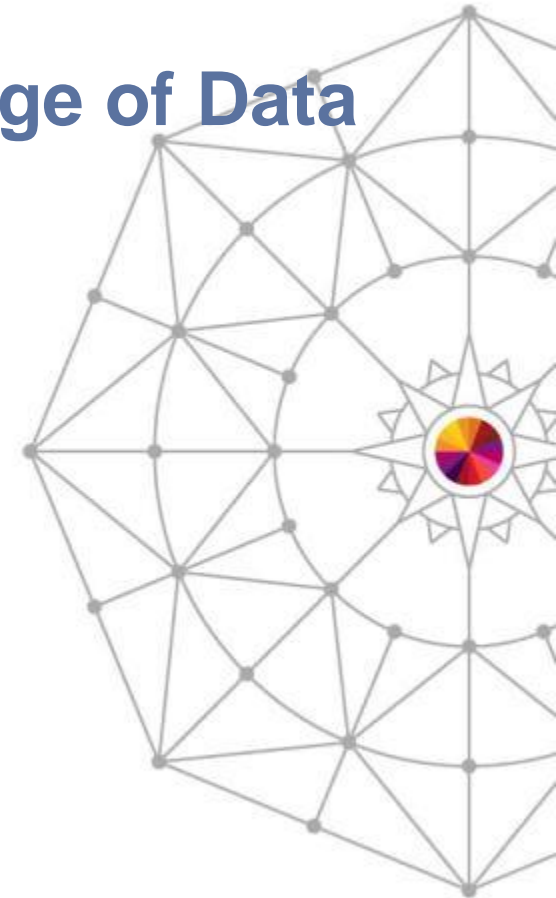


The Old is New Again Engineering Security in the Age of Data Access from Anywhere

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Vanguard Integrity Professionals

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Session 14971



AGENDA

History

1

This part of the presentation discusses the history of the security landscape from an IBM Mainframe perspective, specifically Identity & Access Management.

Today

2

This part of the presentation discusses the challenges enterprises face today with implementing security within their enterprise given the diversity of platforms and application choices.

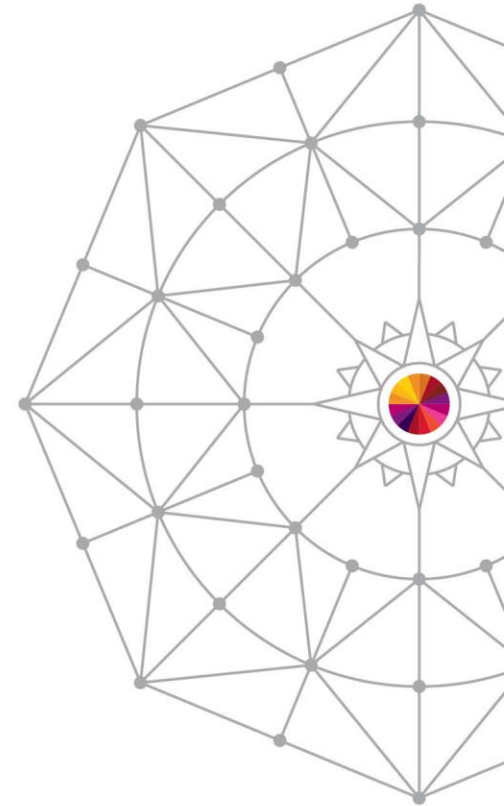
Design Considerations

3

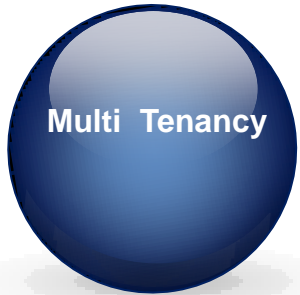
This part of the presentation discusses some security design considerations as your enterprises adopt mobile technology and cloud services.

Do we ever learn from history ?

HISTORY LESSONS



Latest Buzz Words



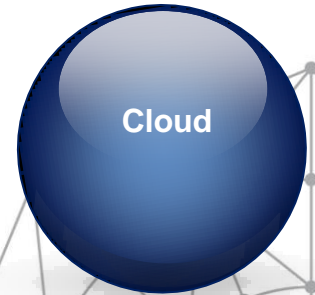
MVS



z/VM



Job Scheduler



Service Bureau



1. It sounds so familiar ??
2. I heard this before ?
3. Oh I remember !
4. It is that old Mainframe!



History – Remember When ?



Private Cloud of the 70's

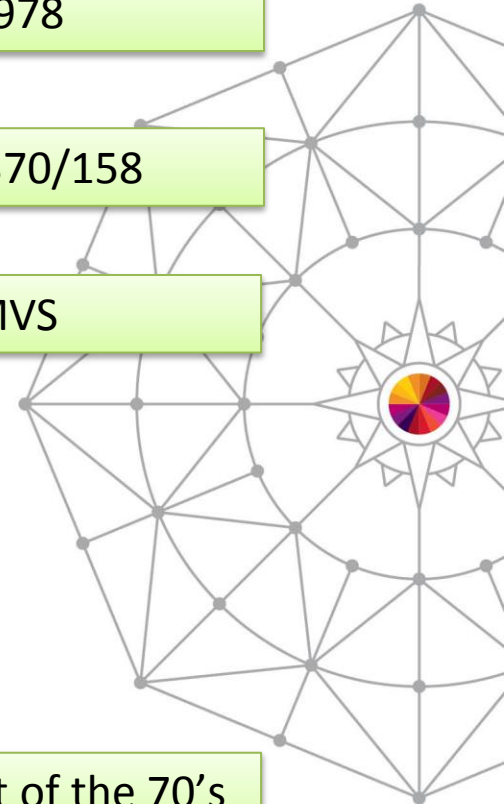


1978

IBM 370/158

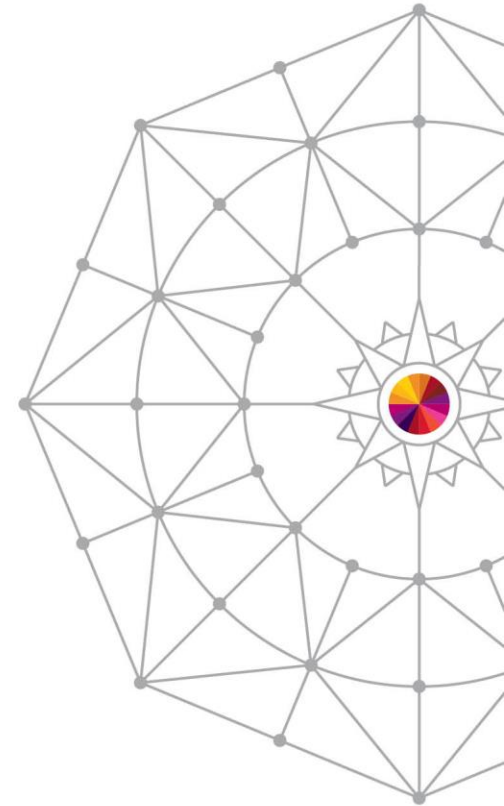
MVS

Thin Client of the 70's

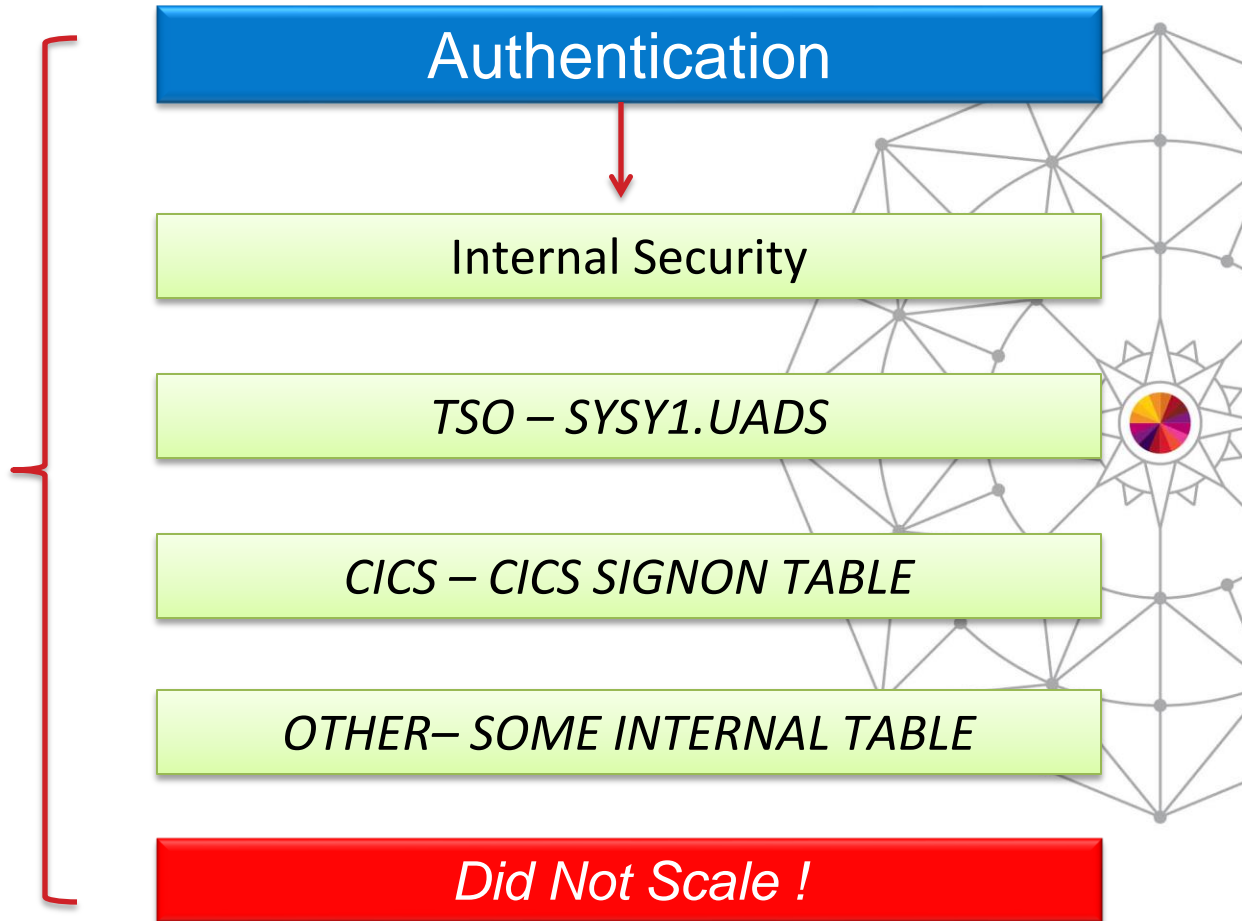


Lessons from the past

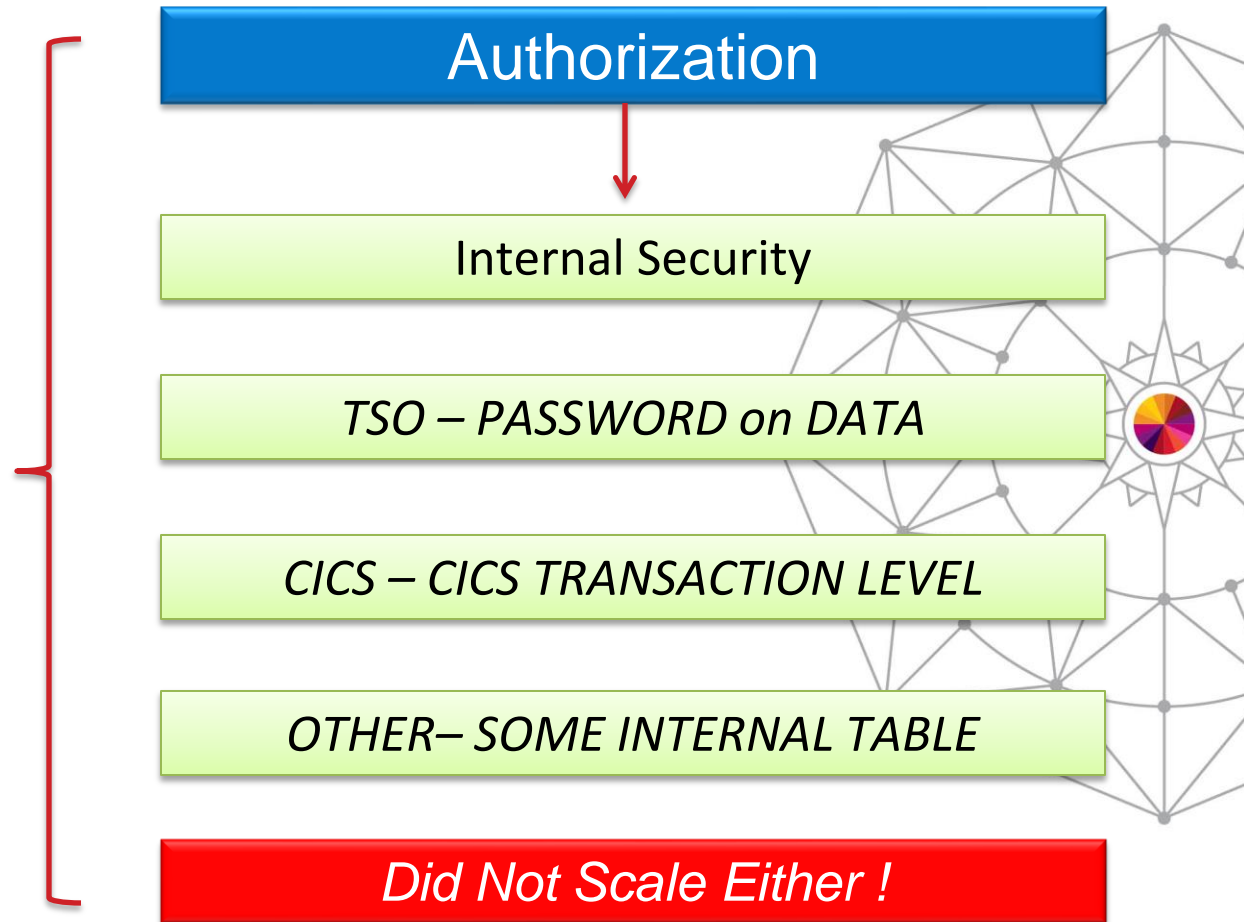
IDENTITY & ACCESS MANAGEMENT



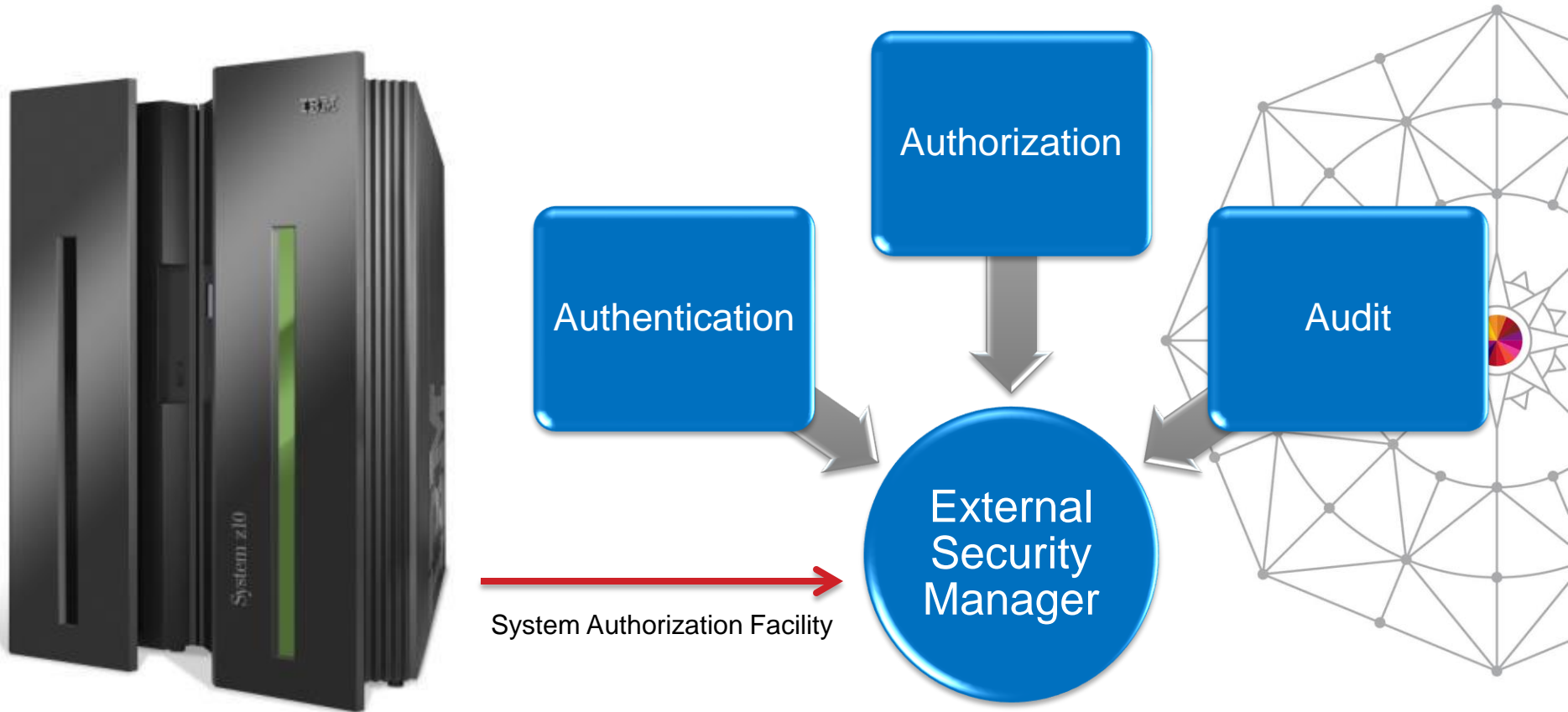
History of I&AM



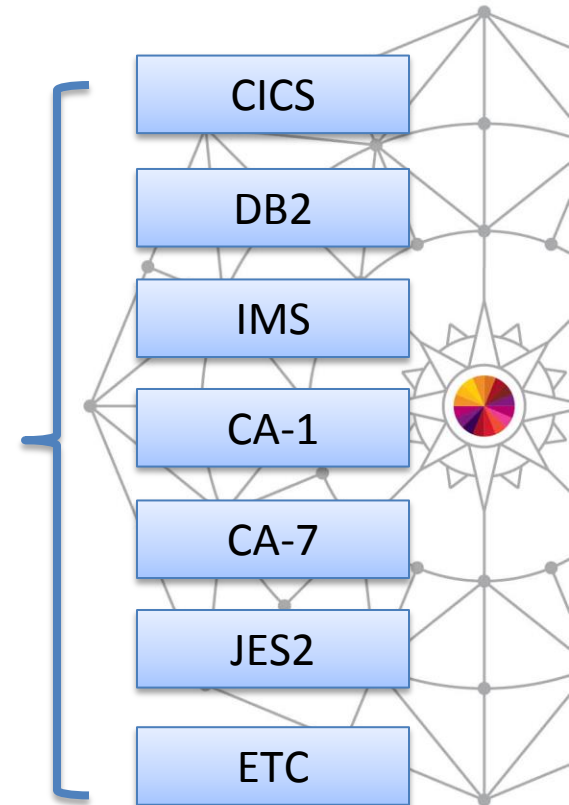
History of I&AM



History of I&AM - Solution



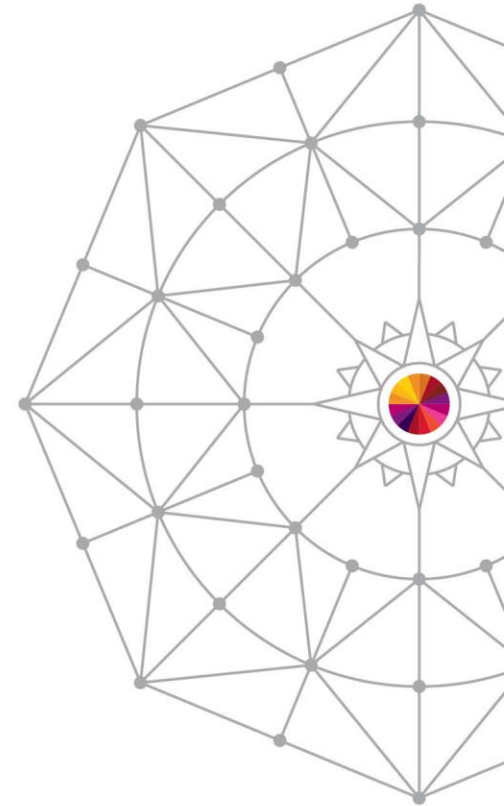
History of I&AM – End State



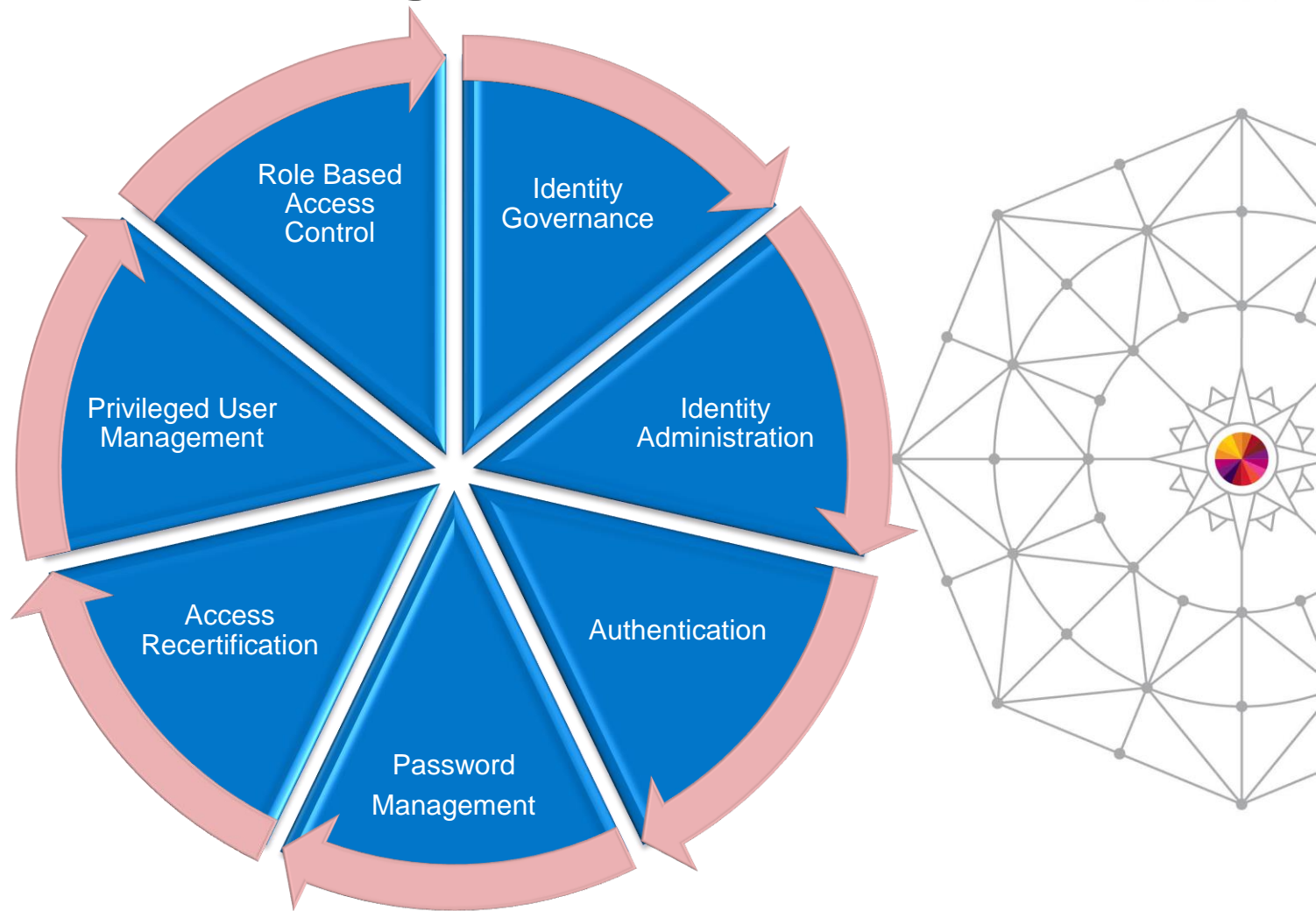
Centralized Authentication, Authorization and Audit

Potholes on the I&AM road to success

ENTERPRISE I&AM CHALLENGES



Identity & Access Management Overview



The Changing Technology World

Yesterday's Cool Technology

Company Owned Devices



Company Policy Enforced !

Today's Cool Technology

Personally Owned Devices



iPad
with Retina display



iPad mini



Company Policy Enforced ?

The Changing Application World

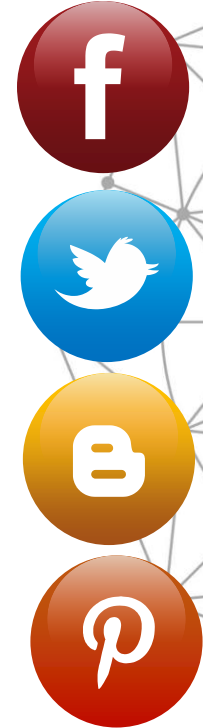
Yesterday's Cool Applications

Company Developed Apps



IAM Relatively Easy

Today's Cool Applications



Cloud Applications & Services



IAM Becomes Complex

Your IT Environment



Mainframe



Distributed



Mobile



Cloud

Challenge: how to implement I&AM in a diverse IT environment ?

Authentication Challenges



Mainframe



Distributed



Mobile



Cloud

Directory Infrastructure Choices

RACF, ACF2, TSS

AD, NIS, LDAP

AD, LDAP

ADFS, SAML ?

Challenges

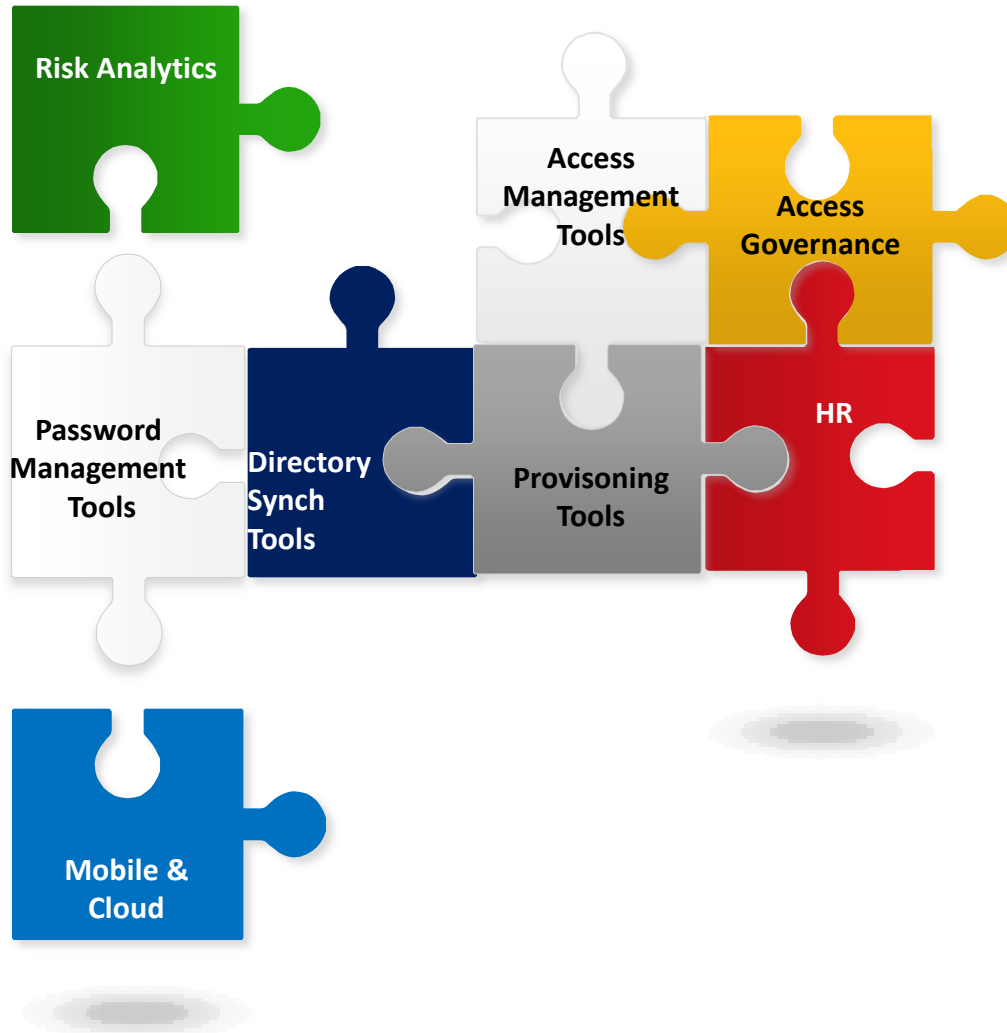
Too Many ID's

Too Many Passwords

Audit Challenges

Increased Helpdesk Calls

End Result - IAM Puzzle



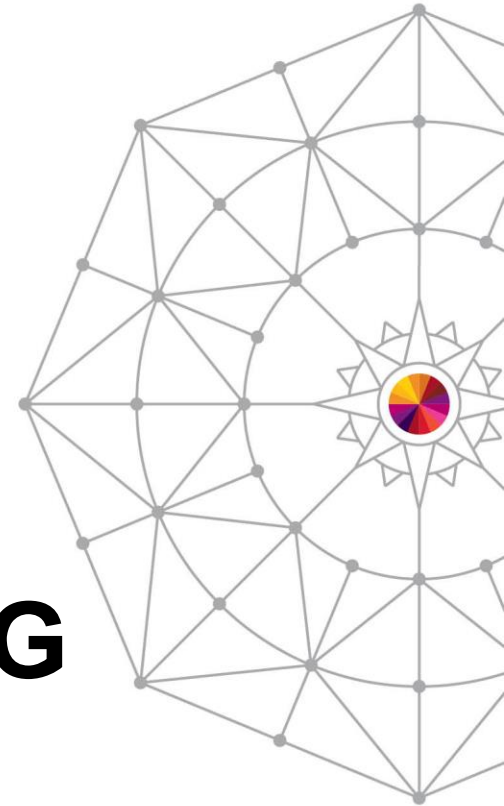
CONCLUSION

Vendor Complexity:
No one vendor provides it all and results in complex integration projects;

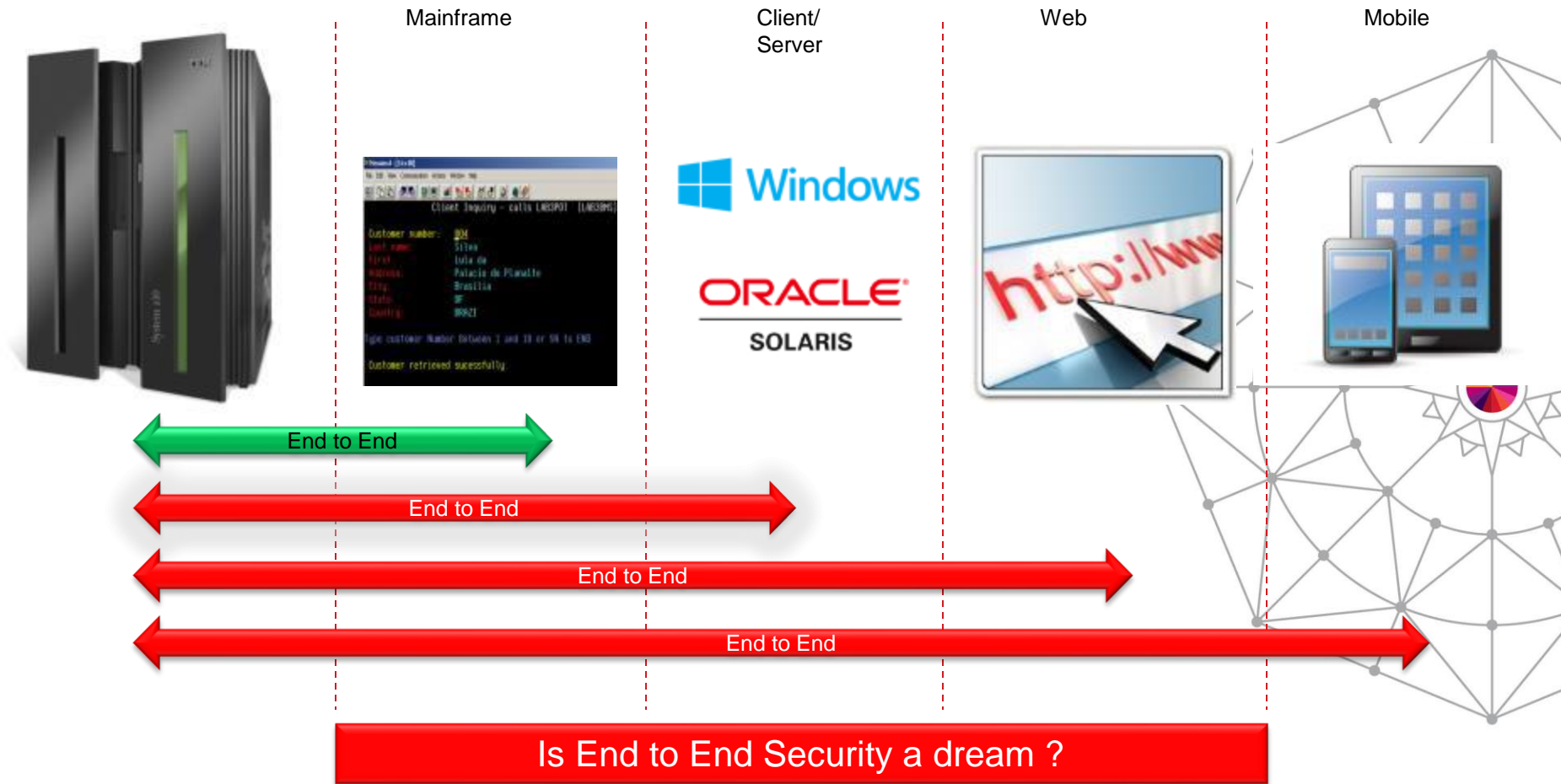
User Frustration:
Too many things to remember

Design Considerations

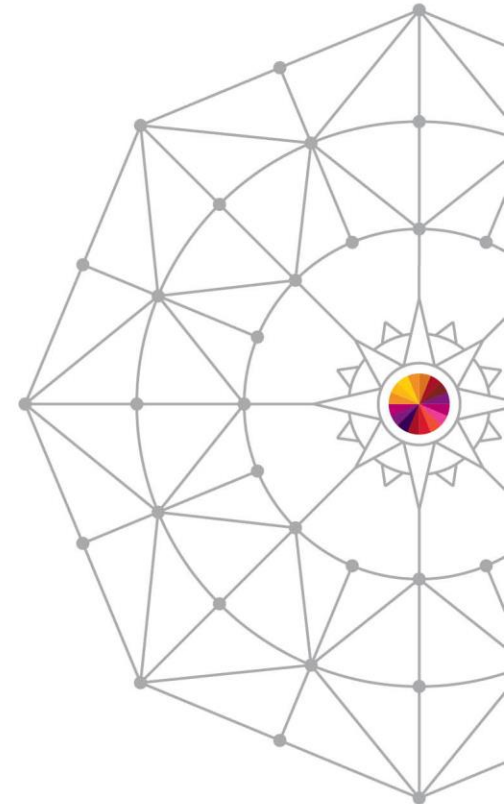
SECURITY ENGINEERING



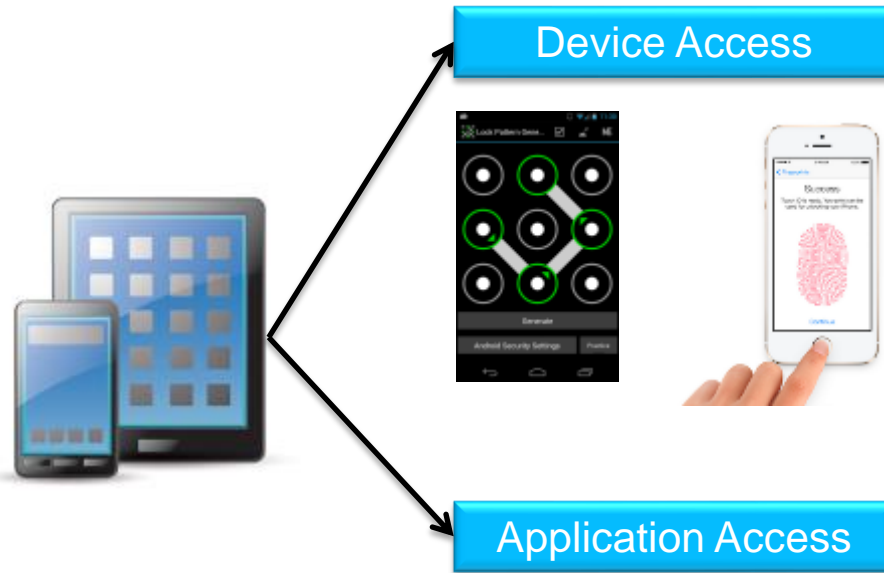
E2E Security Challenges with Data Access From Anywhere



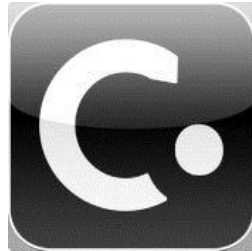
Mobile – BYOD



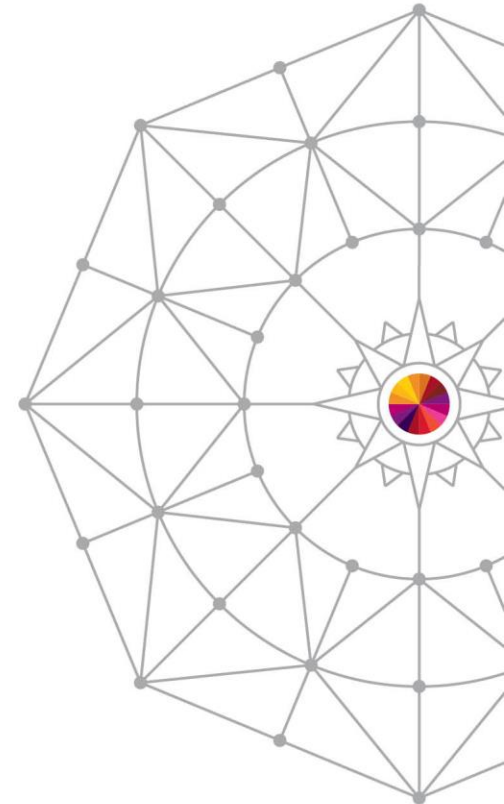
Mobile – Authentication Challenges



Cloud – Authentication Challenges



- **How do we authenticate to a cloud service ?**
 - Leverage existing authentication technology (ADFS etc.)
 - What is the impact to our user (de) provisioning processes?
 - Does the Cloud Provider supports Identity Federation ?
 - Does the Cloud Provider allows for “delegated” authentication?



Design Consideration 1 – Centralized Security Management



1. *Centralized Security Management:*

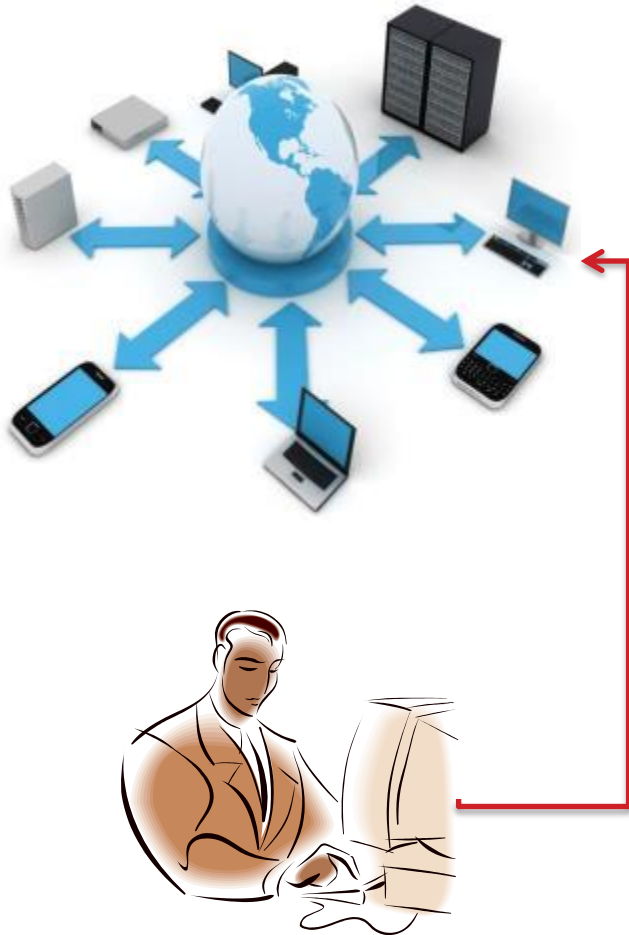
- Centralized Authentication (Private and Public Cloud, Mobile, etc.)
- Centralized Authorization (if required)

2. *Leverage (existing) Security Solutions for:*

- User Provisioning
- Role Based Access Control (RBAC)
- Compliance Reporting
- Security Monitoring

3. *Achieve operational efficiency and reduce capital and operational expense by leveraging existing investment versus new investments.*

Design Consideration II – Centralized Password Management



- 1. User registers their accounts for various platforms using a self service portal to link his/her accounts together.***
- 2. Passwords will be synchronized for all accounts;***
- 3. User will log-on to various applications leveraging one password going forward;***
- 4. All User authentication request will now be authenticated and recorded on one platform and can be reported on leveraging existing reporting and monitoring tools.***

Result: Reduced Sign-On

Design Consideration III – Logging, Monitoring & Reporting



To understand who did what, where and when and how, the logging may need to move to the application itself ?

Summary



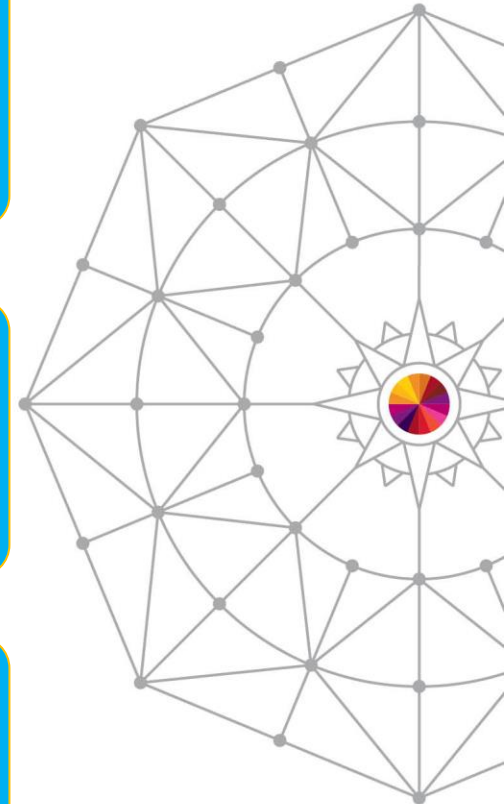
Do not forget what history taught us about security , as we continue to make the same mistakes.



Consider the impact to your security architecture, operations and processes when you implement new capabilities like mobile, cloud etc. as re-engineering is always more expensive.



Get ready for I&AM Cloud Services , sometimes referred to as Bring Your Own Identity.
Companies like Facebook and SALESFORCE want to become your Identity Provider.



Questions & Answers





Thank You
Call us at 800-794-0014 or email us at
info@go2vanguard.com

