

# Identity Risk l'importanza di un approccio integrato per la gestione e mitigazione dei rischi

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## **AGENDA**

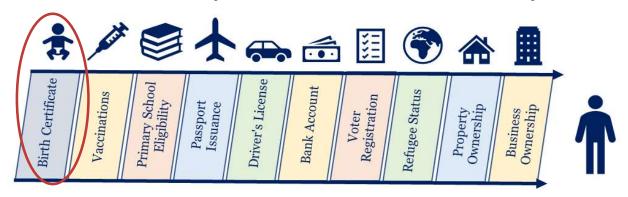
- The Identity Risk
- RSA Archer GRC Suite
- RSA SecurID<sup>®</sup> Suite
- Conclusion





#### The scenario

Today, Digital Identities are used everywhere and associated to everyone and everything





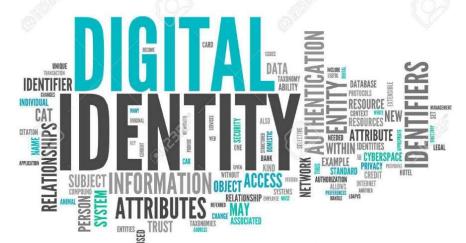
The more they are used, the more they become a <u>complex</u> and interconnected ecosystem of relationships!

#### What do we mean by "digital identity"?

Information on an entity used by computer systems to represent an external agent

(person, organization, application, or device)

ISO/IEC 24760-1 defines identity as "set of attributes related to an entity".



Information contained in a digital identity <u>allows for</u>
<u>assessment and</u>
<u>authentication</u> of a user interacting with a business system on the web to access digital services

For organizations, Digital Identities are huge assets, as they allow external agents to access the critical digital services of the organization!

As such, identities are a key target for some (threat) communities of agents

#### How are digital identities used?

The Identity lifecycle



Joiner Process (provisioning)

#### **CREATE IDENTITY**

- Initial provisioning
- Entitlement Assignment
- Role and Rule Mapping

- Provide the context to discover the relevant threats to consider for the identities and possible impacts.
- At the same time, this information can be used to measure the severity of the risk

#### **CHANGE IDENTITY**

- Initial provisioning
- Entitlement Assignment
- Remap roles and rules

#### **SELF SERVICE**

- Access request/change
- Password management

#### **ACCESS RESOURCES**

- Authentication
- Authorization
- Access Policies
- Single Sign-On





Leaver Process (provisioning)

- COMPLIANCE
- Identity Intelligence
- Access review and certification

#### Risks in using identities

In general, the **concept of risk** is about something that happens (event) over an asset, causing an effect

and leading to a consequence that can impact the business objectives:



Business Impacts

- Avoid Frauds (integrity/extend privileges)
- Avoid identity thefts (confidentiality/steal credentials)
- Identities must always be available (availability)

**Example**: a cyber criminal community (<u>threat</u>) causes a data breach (<u>effect</u>) of personal information (<u>asset</u>) leading to a fine (consequence) that impact the company market share (business impact)

A **shared definition of "identity risk"** does not currently exist, but similarly to other risk categories, some definitions are possible:

- The risk associated to the <u>usage of digital identities</u> (very high level...)
- ➤ The effect of misuse(\*) of identity information in using a digital service
- Unwanted outcome (CIA impact) that stems from an unexpected use of identity information

(\*) "misuse" means "unwanted" or "unexpected" and this can be about both a malicious or unintentional behavior.



#### Identities in organizations

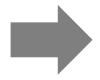
- Every organization can be split into the technology (security) domain and business domain
  - Technology domain typically manages the identities
  - Business domain typically consumes the identities
- This implies that to address Identity Risk we need to consider both technology and business contexts





#### Mitigating Identity Risk...

GOAL: Minimize Identity Risk

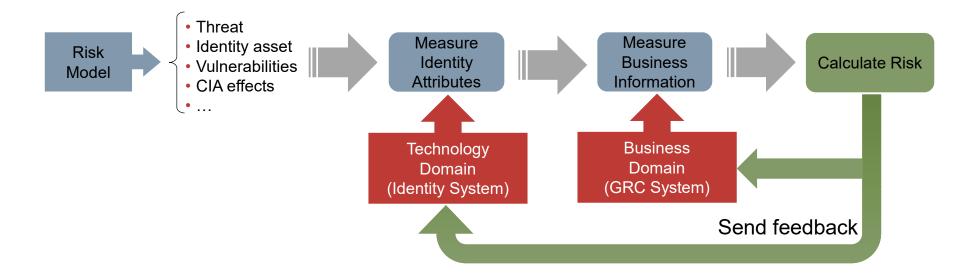


- > ASSESS Identity Risks
  - Identify most relevant scenarios (potential risks)
  - Measure them using a model
  - Compare against threshols
- > Take **ACTIONS** to reduce risks

## What if all of this could be achieved automatically?



## Mitigating Identity Risk... leveraging on automation!

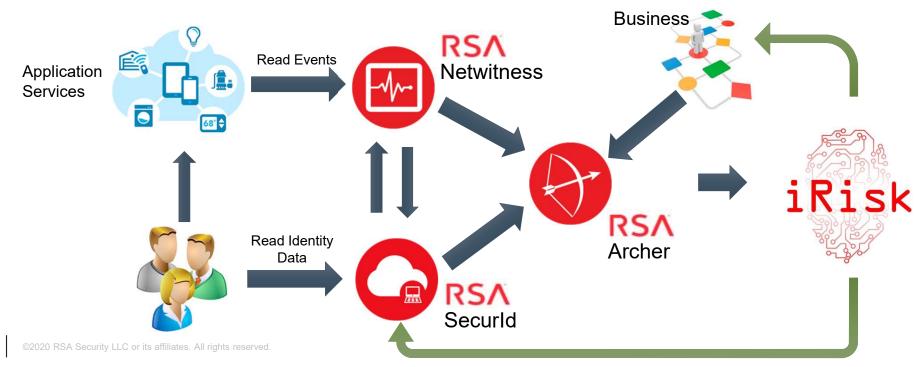




#### Integration is key

<u>Identity</u> (e.g. policy violations) and <u>business</u> (e.g. process criticality) <u>attributes</u> can be gathered from an <u>IAM and GRC system</u> respectively

- Typically these systems are <u>organized as silos</u>
- To achieve our objectives, integration is key: this is what you can achieve with the RSA products
  RSA Securid and RSA Archer GRC Suite





#### Introducing The RSA Archer Suite

RSA RISK AND CYBERSECURITY PRACTICE

> RSA PARTNERS

**ECOSYSTEM** 

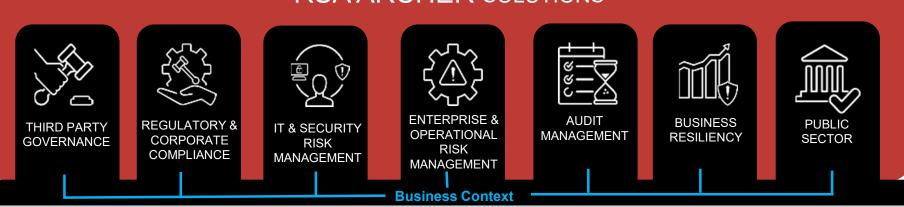


RSA COMMUNITY

RSA EXCHANGE

RSA UNIVERSITY









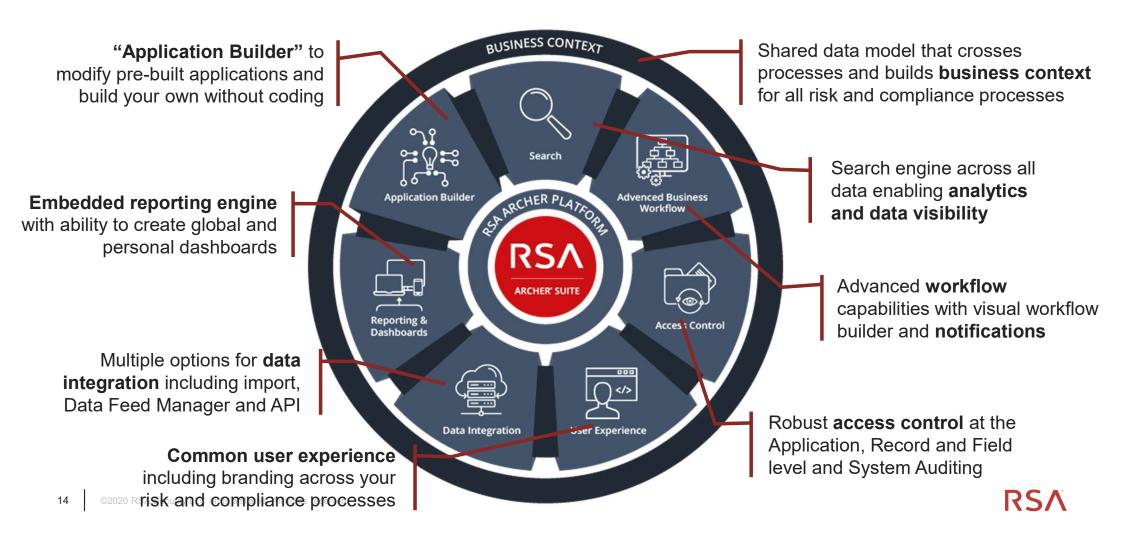
RSA ARCHER PLATFORM







#### Key Features of the RSA Archer Platform



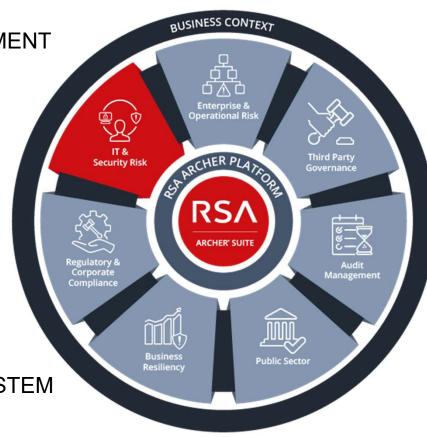
#### Modular and Progressive Approach: Archer Use Cases

IT & SECURITY POLICY PROGRAM MANAGEMENT

IT RISK MANAGEMENT

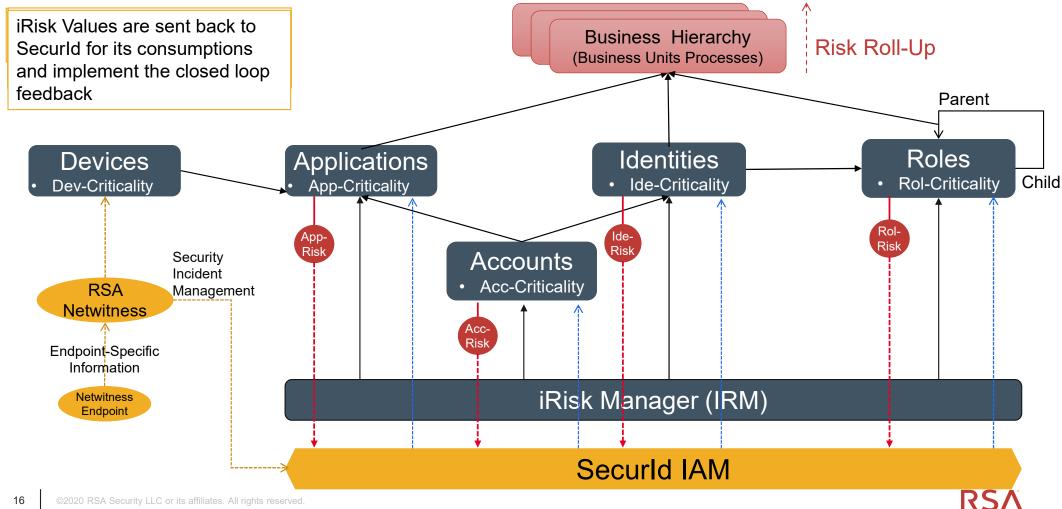
IT SECURITY VULNERABILITIES PROGRAM

- CYBER INCIDENT & BREACH RESPONSE
- CYBER RISK QUANTIFICATION
- IT CONTROLS ASSURANCE
- IT REGULATORY MANAGEMENT
- PCI MANAGEMENT
- INFORMATION SECURITY MANAGEMENT SYSTEM (ISMS)

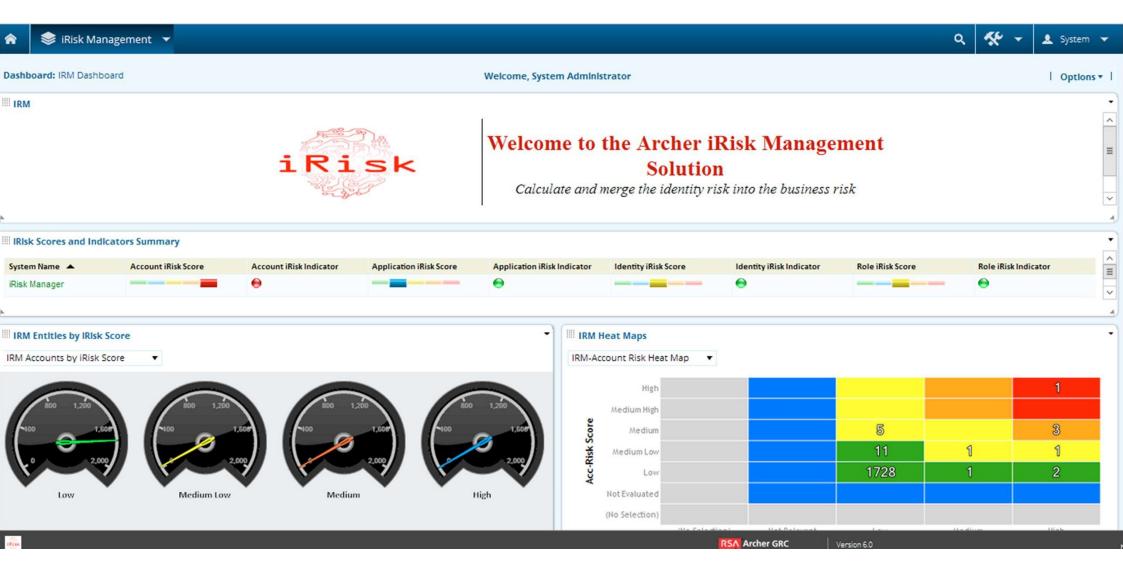




#### Modular and Progressive Approach: Archer Use Cases



### Identity Risk Management Dashboard





#### RSA SecurID SUITE



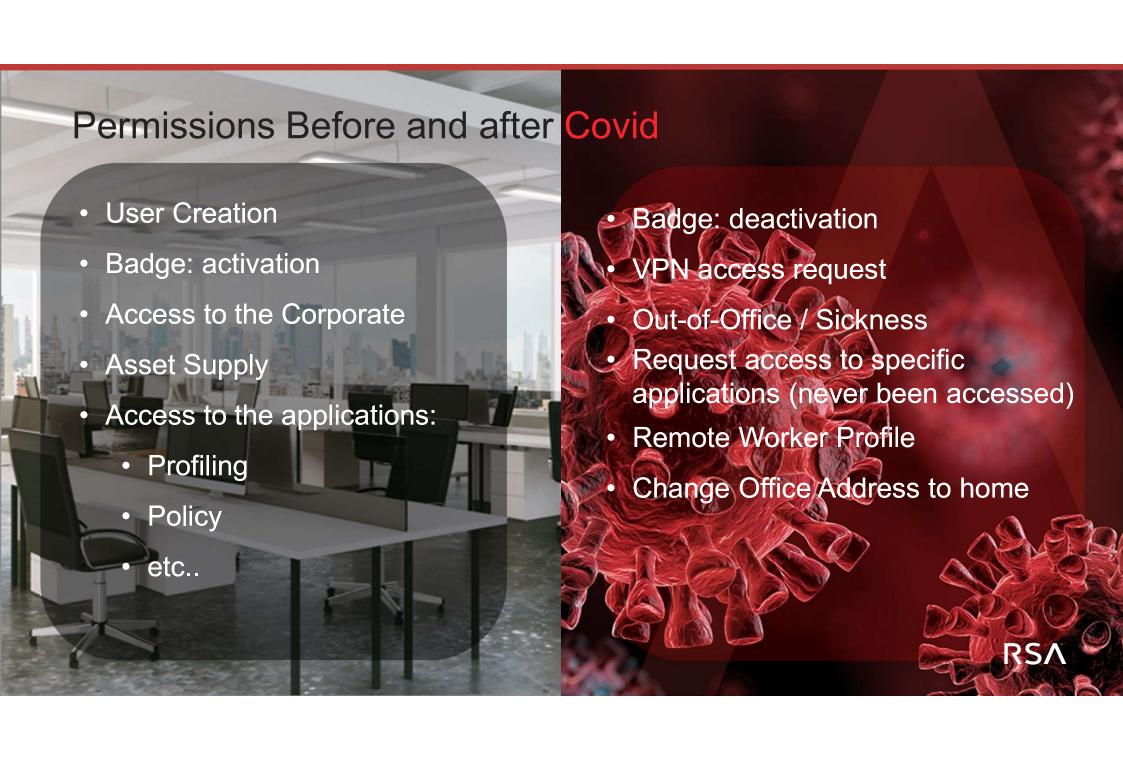
RSA SecurID Suite enables organizations of all sizes to **mitigate identity risk** and maintain compliance without impeding user productivity. It ensures users have appropriate access and confirms they are who they say they are with a **modern**, **convenient user experience** 

RSA SecurID Suite provides unified visibility and control across organizations' many islands of identity.









## Adopting RSA as Identity Solution



- GOVERNANCE OF THE IDENTITIES
- ACCESS TO WHAT I NEED
- DIFFERENT IDENTITIES
- RISK MITIGATION

You Can't protect what you don't know you've got

GIVE TO THE USERS A FACE

RSA



## VISIBILITY AND GOVERNANCE

WHO CAN ACCESS?

HAS AN ACCOUNT BEEN REMOVED?

WHO CAN DO WHAT?

ARE WE IN COMPLIANCE?

RSA

A phased approach: Identity Governance

STEP 5: PROVISIONING

STEP 4: ROLE MINING

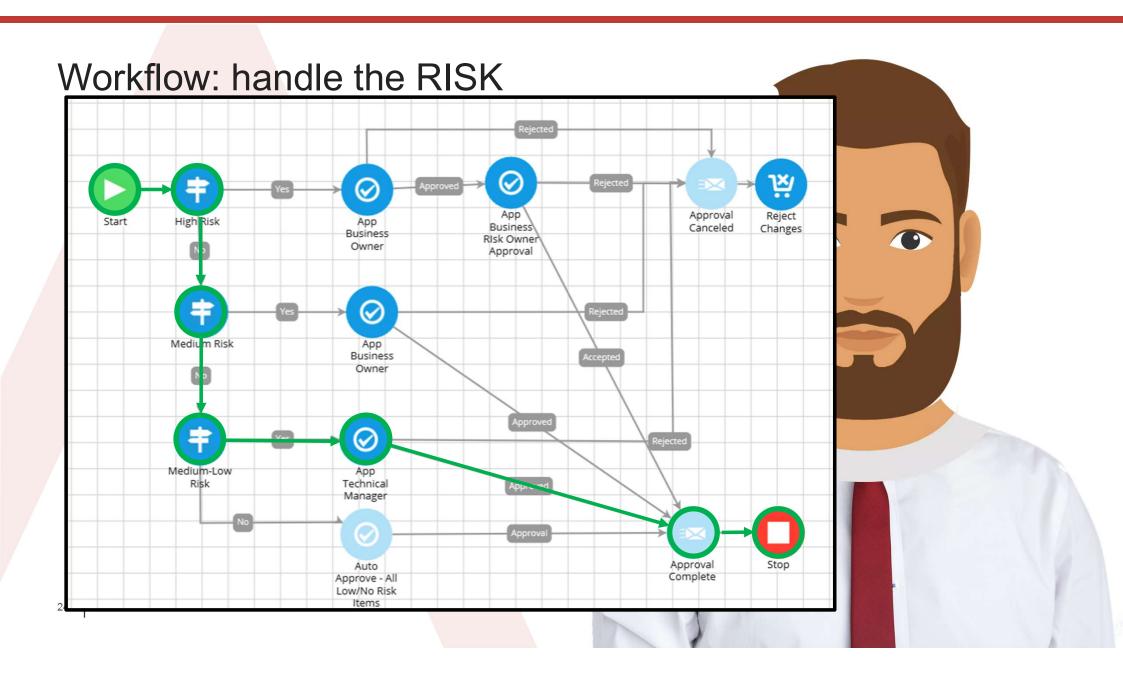
STEP 3: ACCESS REQUEST

STEP 2: POLICY MANAGEMENT

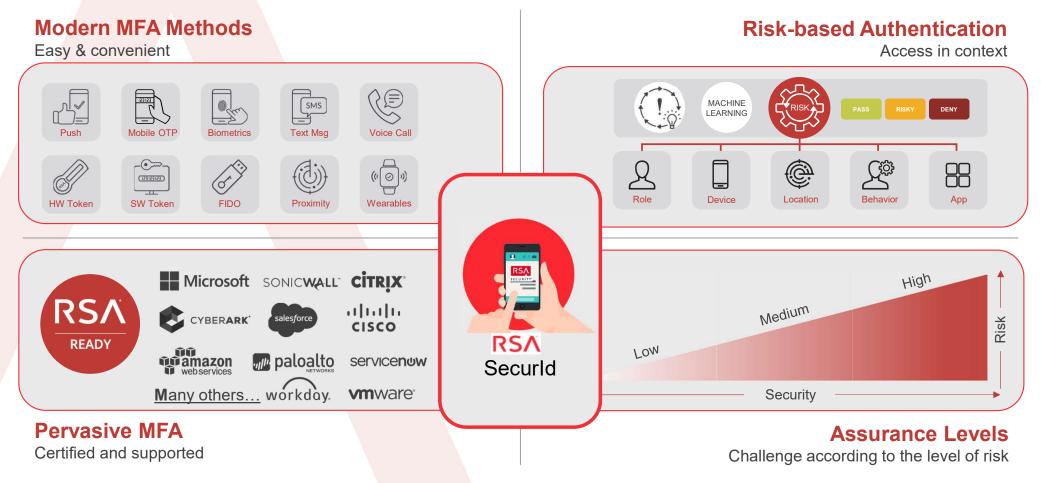
RSA Identity Governance & Lyfecycle

STEP 1: VISIBILITY & CERTIFICATION



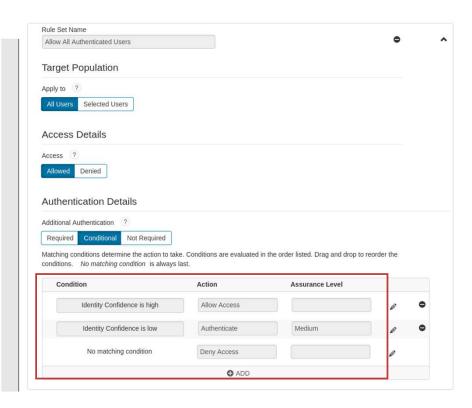


#### Adopting RSA as Strong Authentication

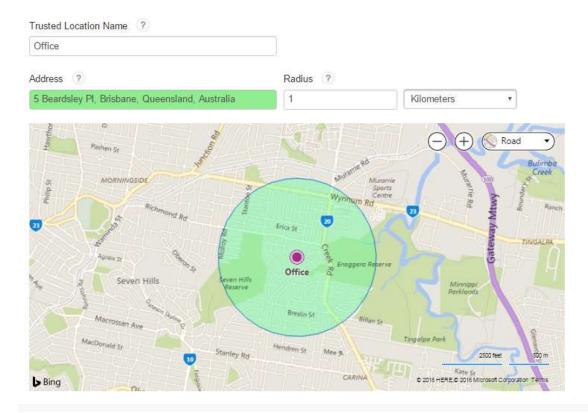


#### Granular policies to manage any situation

#### **Identity Confidence**



#### **Trusted location**





### User Attribute-based authentication

**DEPARTMENT** 

LOCATION

TITLE

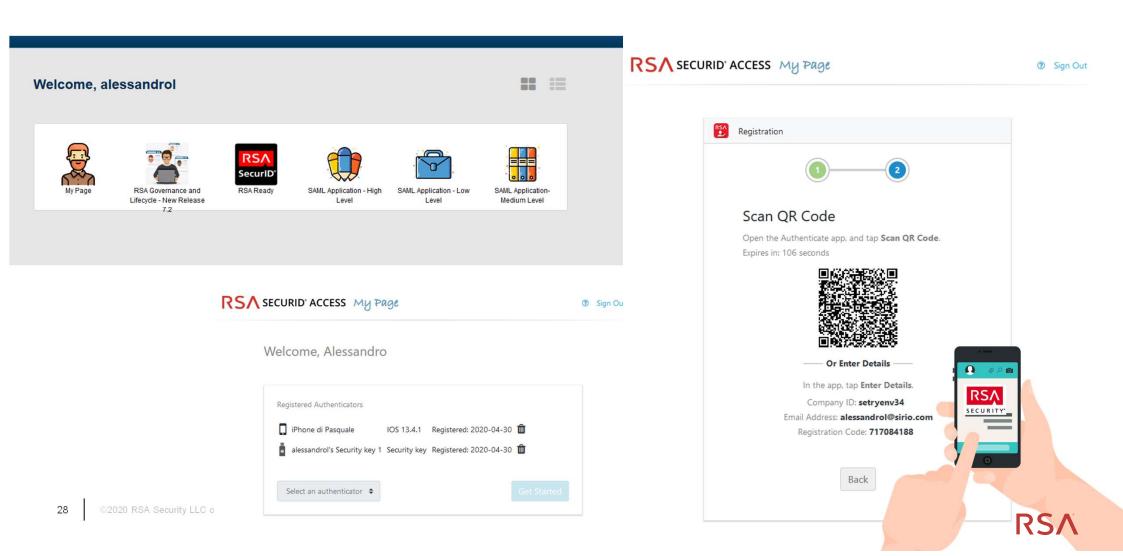
LAST LOGIN

SUPERVISOR

**ENROLLED?** 



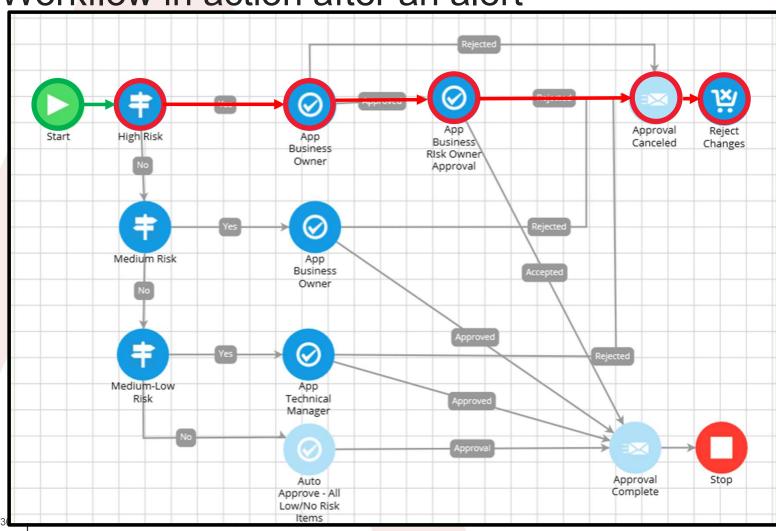
#### SSO Portal and Users Enrollment: An Easy Way!



## Alert: increase the Identity Assurance

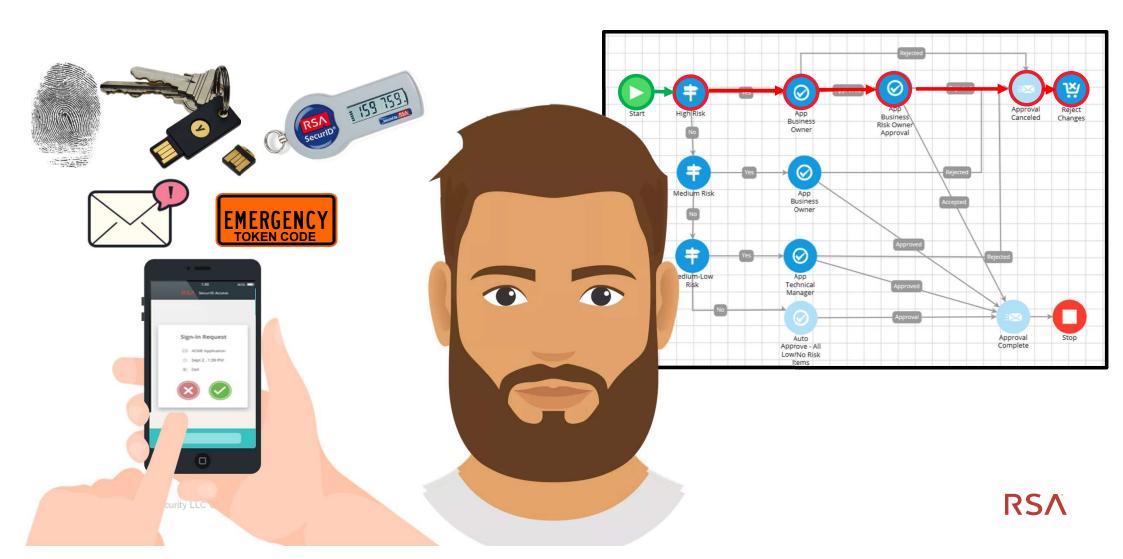


#### Workflow in action after an alert





#### An immediate reaction to an Identity Risk



#### **Orphan Accounts**

#### BACKDOOR TO YOUR ENTERPRISE

of enterprises fail to discover the privileged access accounts in their environment.

never tried to find privileged accounts in their environment

fails or forgets to revoke permissions after a privileged user has been removed; orphan account removed: orphan account

RS/

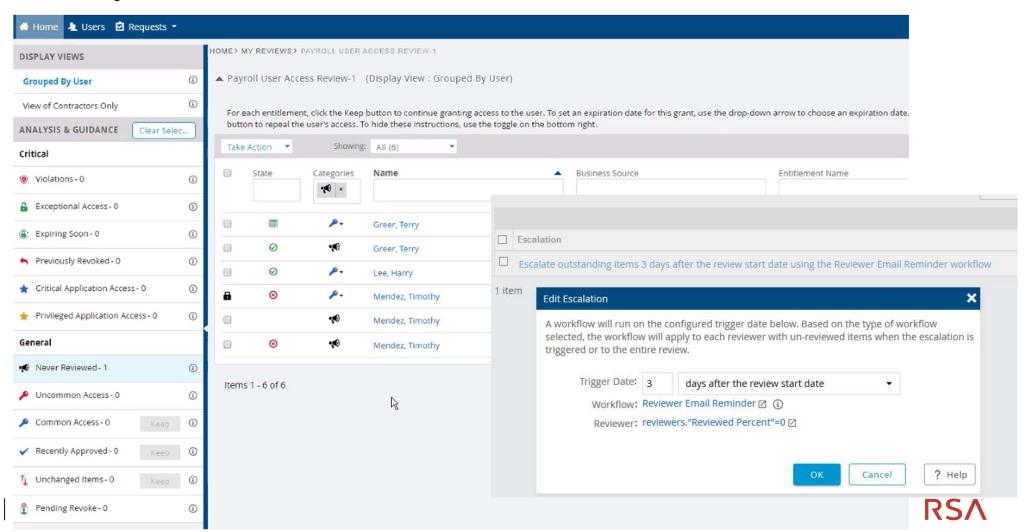
## Make it easy: Business descriptions!

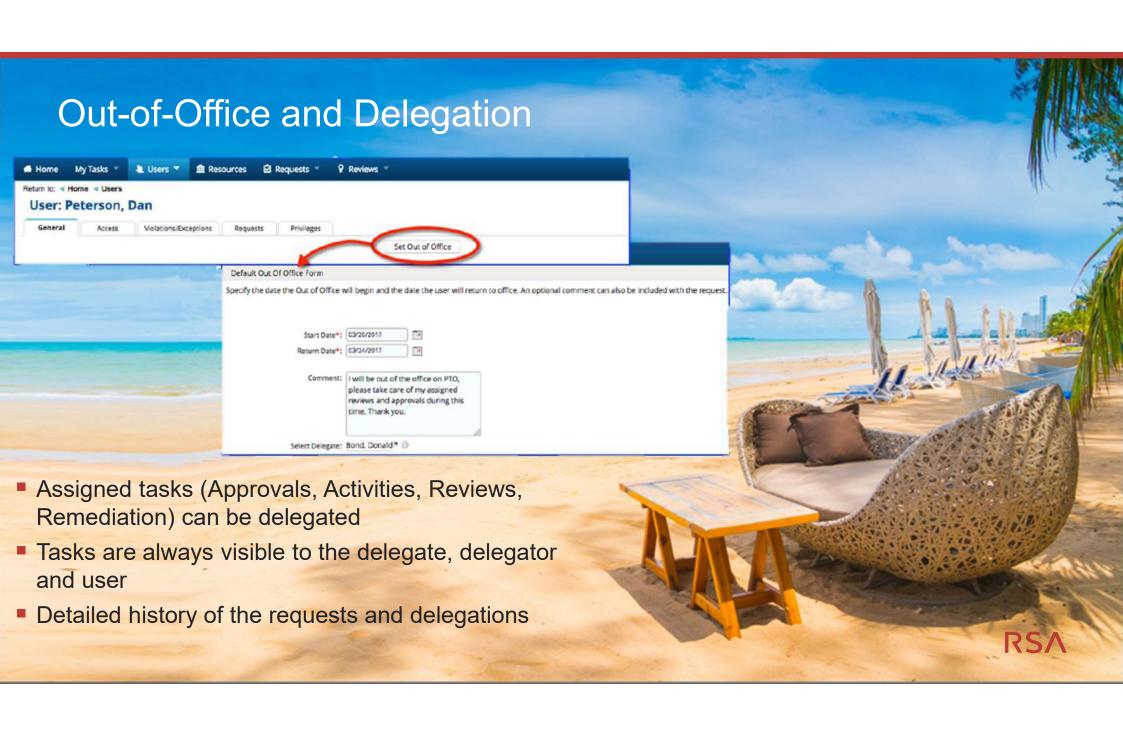
Search: rspfpar											
	Entitlement Name	9 -	Resource Q	}	Entitlement Collector Q	Entitlement Raw Name					
	RSPFPAR : Display profile parameter		RSPFPAR		SAP Entitlement Collector	RSPFPAR : Display profile parameter					
	RSPFPAR_AUTH : All authorizations		RSPFPAR_AUTH		SAP Entitlement Collector	RSPFPAR_AUTH : All authorizations					

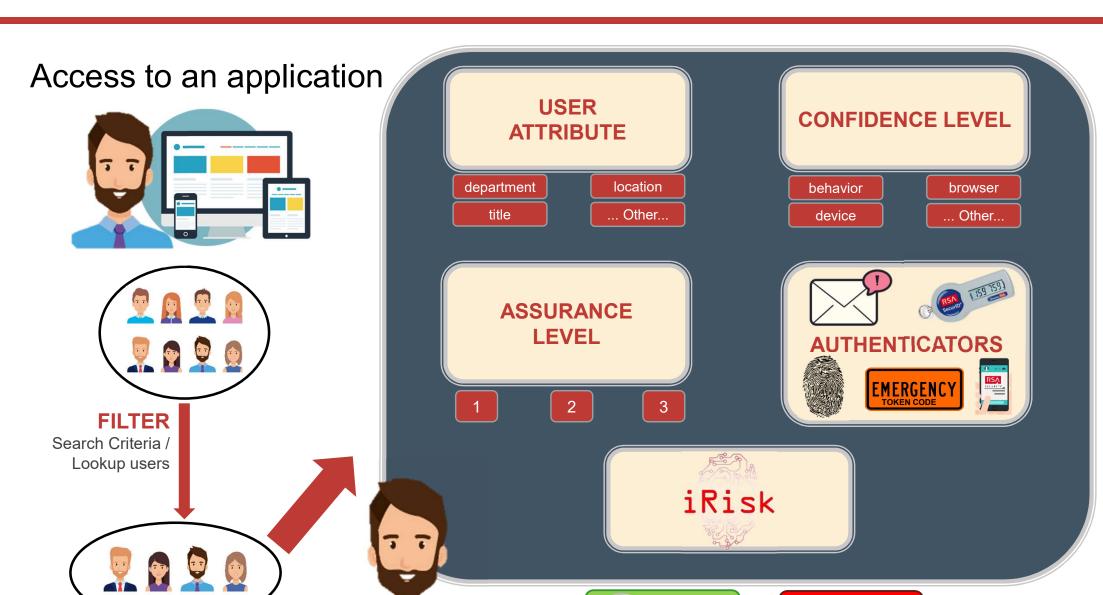


ApplicationRo	le SAP	TRUE	SAP_ASAP_AUTHORENUMGEBUNG	Working in the ASAP Authoring Environment
ApplicationRo	le SAP	TRUE	SAP_ASAP_AUTORENUMGEBUNG	Profile for ASAP Authoring Environment
ApplicationRo	le SAP	TRUE	SAP_ASR_ADIMINISTRATOR	HR Administrative Services : Administrator
ApplicationRo	le SAP	TRUE	SAP_ASR_EMPLOYEE	HR Administrative Services : Employee
ApplicationRo	le SAP	TRUE	SAP_ASR_MANAGER	HR Administrative Services : Manager
ApplicationRo	le SAP	TRUE	SAP_AUDITOR	AIS - Audit Information System
ApplicationRo	le SAP	TRUE	SAP_AUDITOR_A	AIS - Central Authorizations
ApplicationRo	le SAP	TRUE	SAP_AUDITOR_ADMIN	AIS - Administration
ApplicationRo	le SAP	TRUE	SAP_AUDITOR_ADMIN_A	AIS - Administration (Authorizations)
ApplicationRo	le SAP	TRUE	SAP_AUDITOR_BA_A	AIS - Authorizations for SAP Applications (Except HR
ApplicationRo	le SAP	TRUE	SAP_AUDITOR_BA_CFM	Business Audit, Treasury (Transactions)
ApplicationRo	le SAP	TRUE	SAP_AUDITOR_BA_CFM_A 🗘	Business Audit, Treasury (Authorization)
ApplicationRo	le SAP	TRUE	SAP_AUDITOR_BA_CO	AIS - Internal Activity Allocation
ApplicationRo	le SAP	TRUE	SAP_AUDITOR_BA_CO_A	AIS - Internal Activity Allocation (Authorizations)
ApplicationRo	le SAP	TRUE	SAP_AUDITOR_BA_EC_CS	AIS - Consolidation
ApplicationRo	le SAP	TRUE	SAP_AUDITOR_BA_EC_CS_A	AIS - Consolidation (Authorizations)
ApplicationRo	le SAP	TRUE	SAP_AUDITOR_BA_EC_PCA	AIS - Profit Center Accounting
ApplicationRo	le SAP	TRUE	SAP_AUDITOR_BA_EXPORT_DATA	AIS - Data Export
ApplicationRo	le SAP	TRUE	SAP_AUDITOR_BA_FI_AA	AIS - Tangible Assets
AnnlicationRo	lo SAD	TRUE	SAD AUDITOR RA FI APMD A	AIS - Accounts Payable - Master Data (Authorizations

#### Quarterly review with escalation







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#### Conclusion

- Digital identity is pervasive and still the main trigger of most cyber attacks
- Identity risk is a major component within the operational risks, and it's characterized by a very high volatility
- This risk can be measured considering both technology and business factors
- To effectively address and mitigate this risk, speed is a key factor!
- This requires both automation and integration across the products that manage the identity and governance information
- The RSA Securld Suite and RSA Archer Suite allows you to achieve this goal!

## Thank You

RSA

# RSA