RSA

GUC
German University in Cairo

(NETW 1002)
Systems and Network Security
Milestone 2 Submission Report

OWN YOUR IDENTITY.

Milestone 2 Report Submission:

Virtual Machines Network Settings:

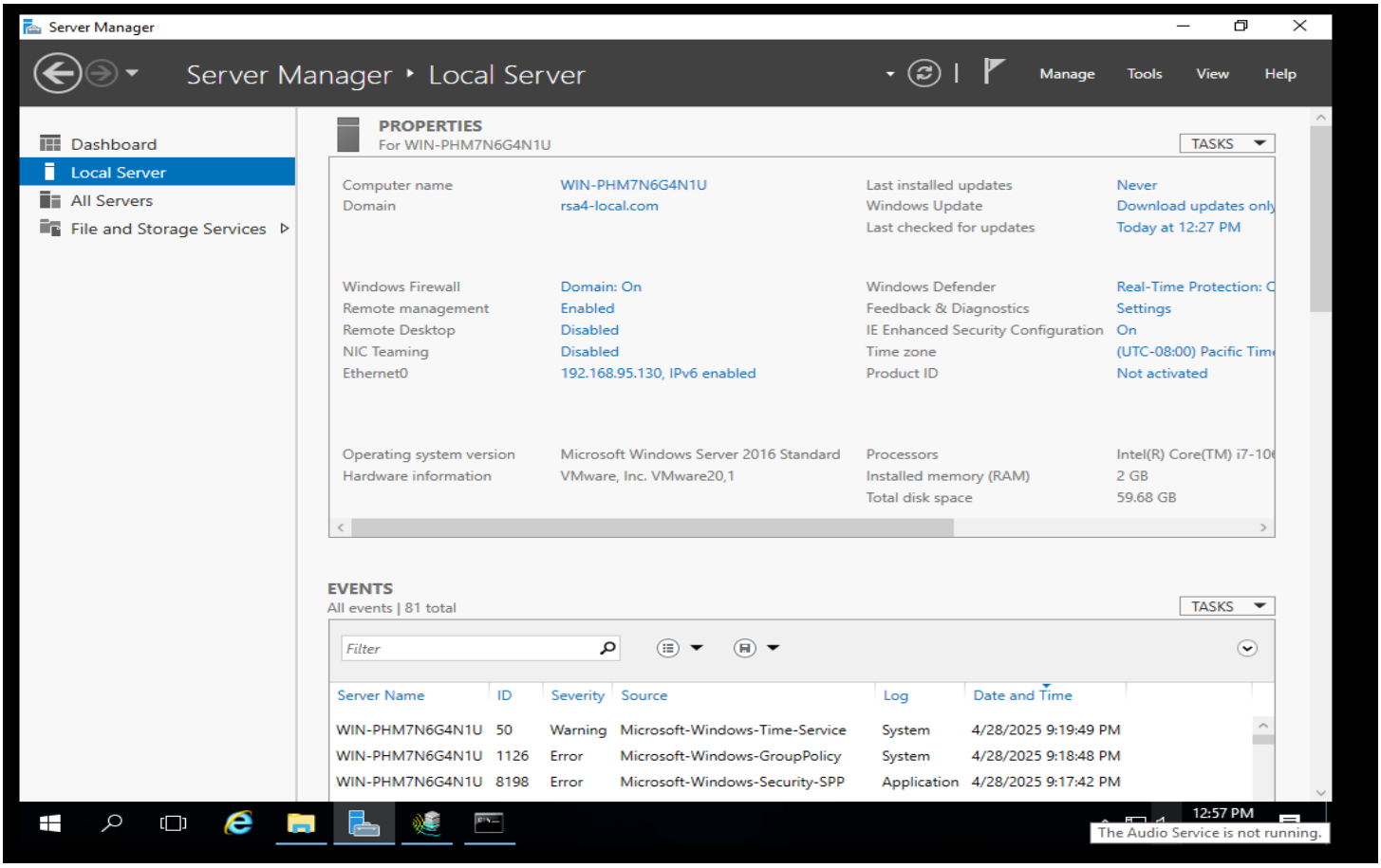
- Virtual Machine #3:

Virtual Machine Function **(Domain Controller/MFA Agent/IDR)**	**MFA Agent**
Operating System (Windows/Linux)	**Windows**
Fully Qualified Domain Name	**rsa4-local.com**
IP Address	**192.168.95.130**
Gateway	**192.168.95.2**
DNS	**Primary:192.168.95.128** **Secondary:8.8.8.8**

Milestone 2 Screenshots:

1. Windows Server virtual machine Installation

*** **FIRST SCREENSHOT:** *Take a full-page screenshot of the* **Server Manager > Local Server**

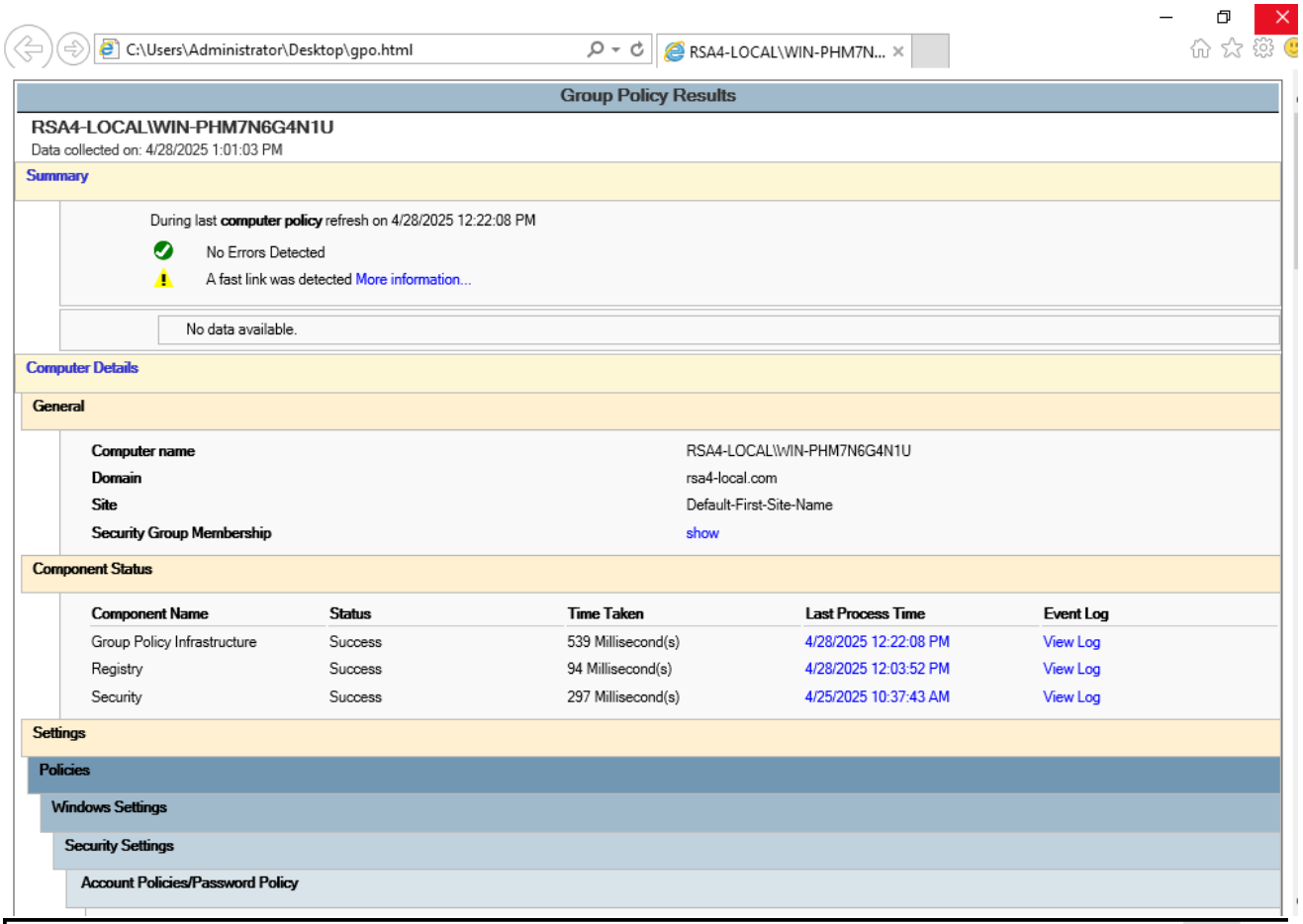


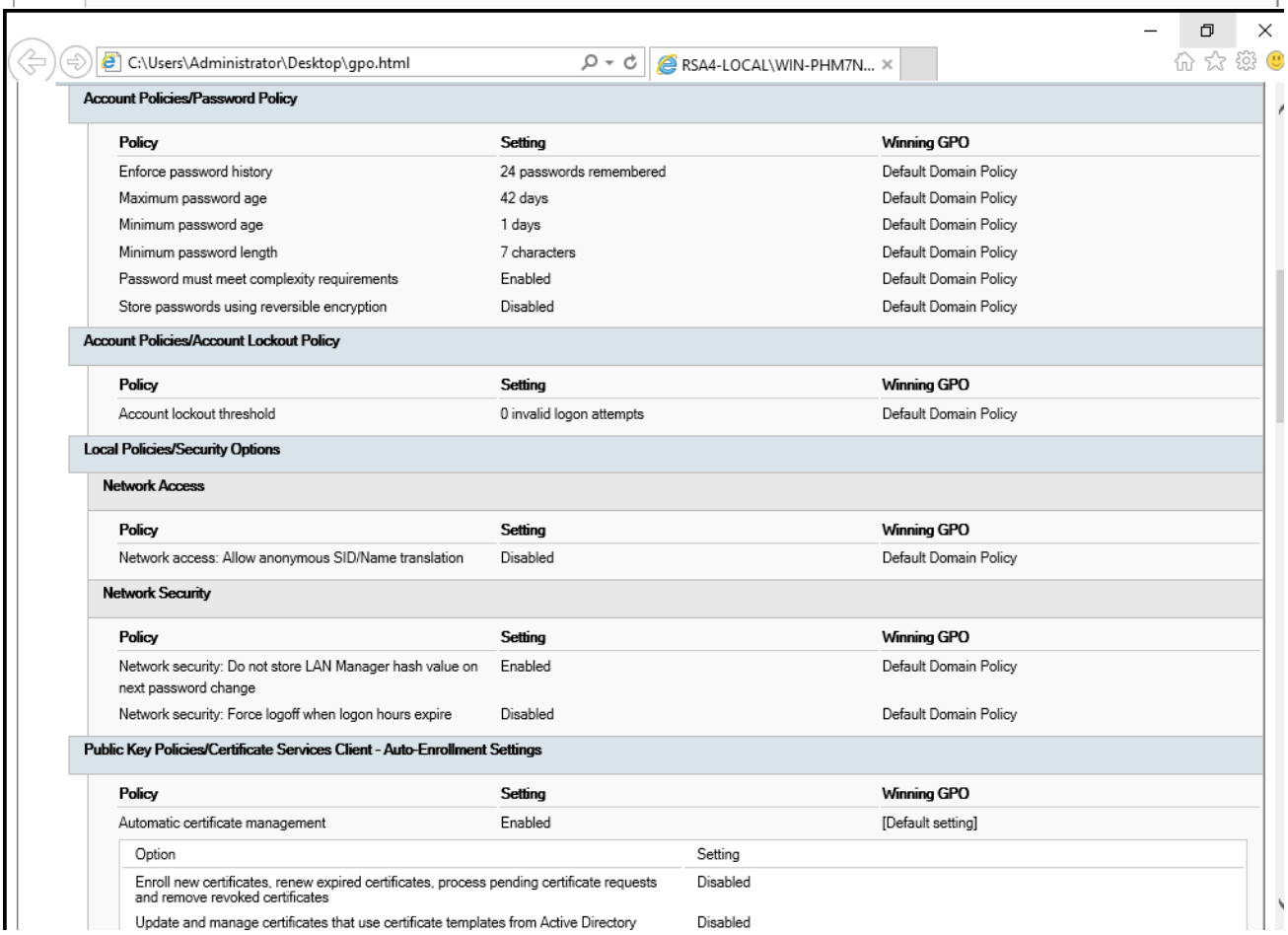
2. RSA MFA Agent Configuration

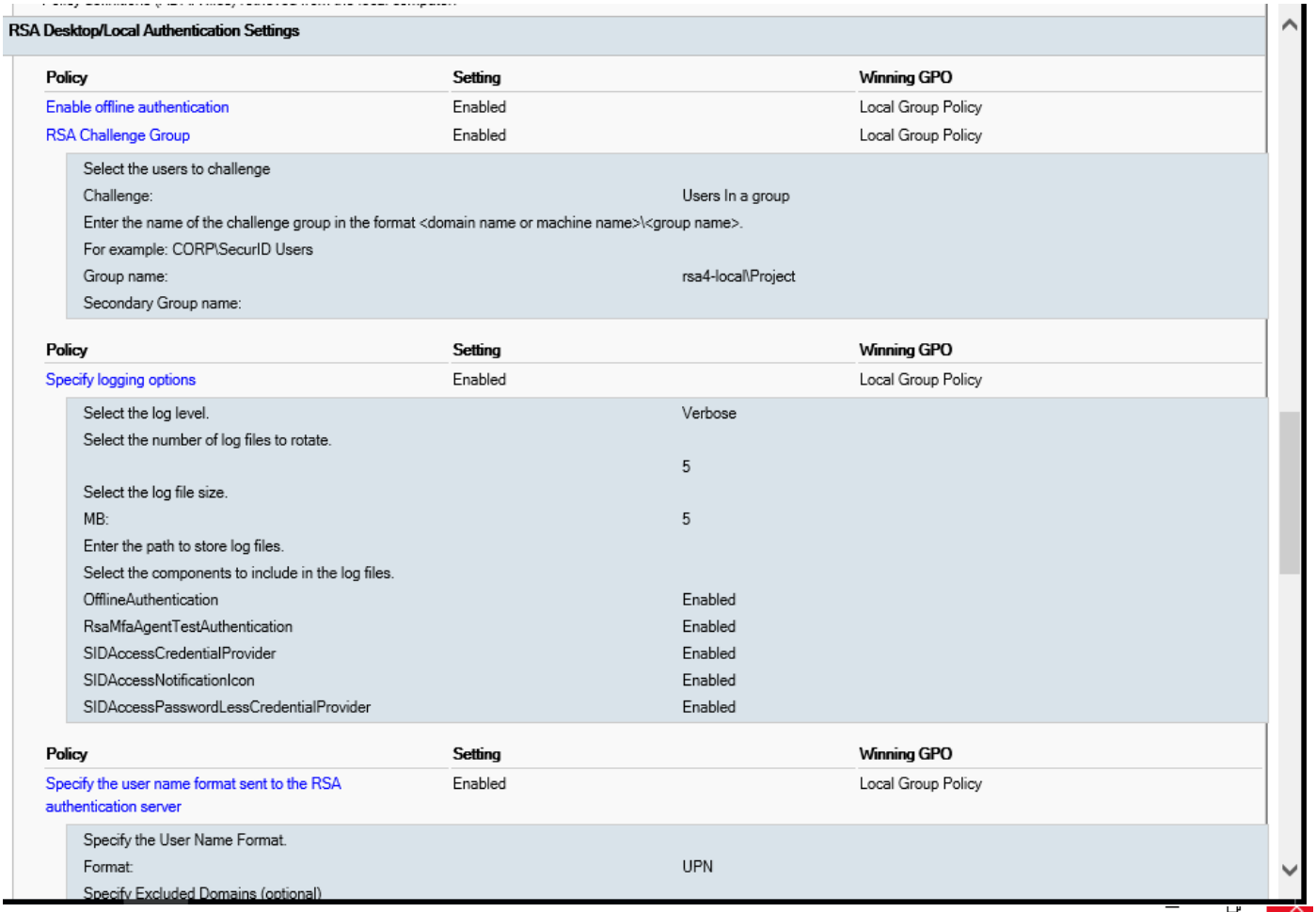
a. Policies applied locally on Windows VM

- Open PowerShell as administrator
- Execute the following command: *gpresult /user administrator /scope computer /h c:\Users\Administrator\Desktop\gpo.html /f*

Note: The username: Administrator could be any other username based on the administrator managing this PC


C:\Users\Administrator\Desktop\gpo.html
RSA4-LOCAL\WIN-PHM7N...
Group Policy Results
RSA4-LOCAL\WIN-PHM7N6G4N1U
Data collected on: 4/28/2025 1:01:03 PM
Summary
During last computer policy refresh on 4/28/2025 12:22:08 PM
No Errors Detected
A fast link was detected More information...
No data available.
Computer Details
General
Computer name RSA4-LOCAL\WIN-PHM7N6G4N1U
Domain rsa4-local.com
Site Default-First-Site-Name
Security Group Membership show
Component Status
Component Name Status Time Taken Last Process Time Event Log
Group Policy Infrastructure Success 539 Millisecond(s) 4/28/2025 12:22:08 PM View Log
Registry Success 94 Millisecond(s) 4/28/2025 12:03:52 PM View Log
Security Success 297 Millisecond(s) 4/25/2025 10:37:43 AM View Log
Settings
Policies
Windows Settings
Security Settings
Account Policies/Password Policy


C:\Users\Administrator\Desktop\gpo.html
RSA4-LOCAL\WIN-PHM7N...
Account Policies/Password Policy
Policy Setting Winning GPO
Enforce password history 24 passwords remembered Default Domain Policy
Maximum password age 42 days Default Domain Policy
Minimum password age 1 days Default Domain Policy
Minimum password length 7 characters Default Domain Policy
Password must meet complexity requirements Enabled Default Domain Policy
Store passwords using reversible encryption Disabled Default Domain Policy
Account Policies/Account Lockout Policy
Policy Setting Winning GPO
Account lockout threshold 0 invalid logon attempts Default Domain Policy
Local Policies/Security Options
Network Access
Policy Setting Winning GPO
Network access: Allow anonymous SID/Name translation Disabled Default Domain Policy
Network Security
Policy Setting Winning GPO
Network security: Do not store LAN Manager hash value on next password change Enabled Default Domain Policy
Network security: Force logoff when logon hours expire Disabled Default Domain Policy
Public Key Policies/Certificate Services Client - Auto-Enrollment Settings
Policy Setting Winning GPO
Automatic certificate management Enabled [Default setting]
Option Setting
Enroll new certificates, renew expired certificates, process pending certificate requests and remove revoked certificates Disabled
Update and manage certificates that use certificate templates from Active Directory Disabled



RSA Desktop/Local Authentication Settings

Policy	Setting	Winning GPO
Enable offline authentication	Enabled	Local Group Policy
RSA Challenge Group	Enabled	Local Group Policy

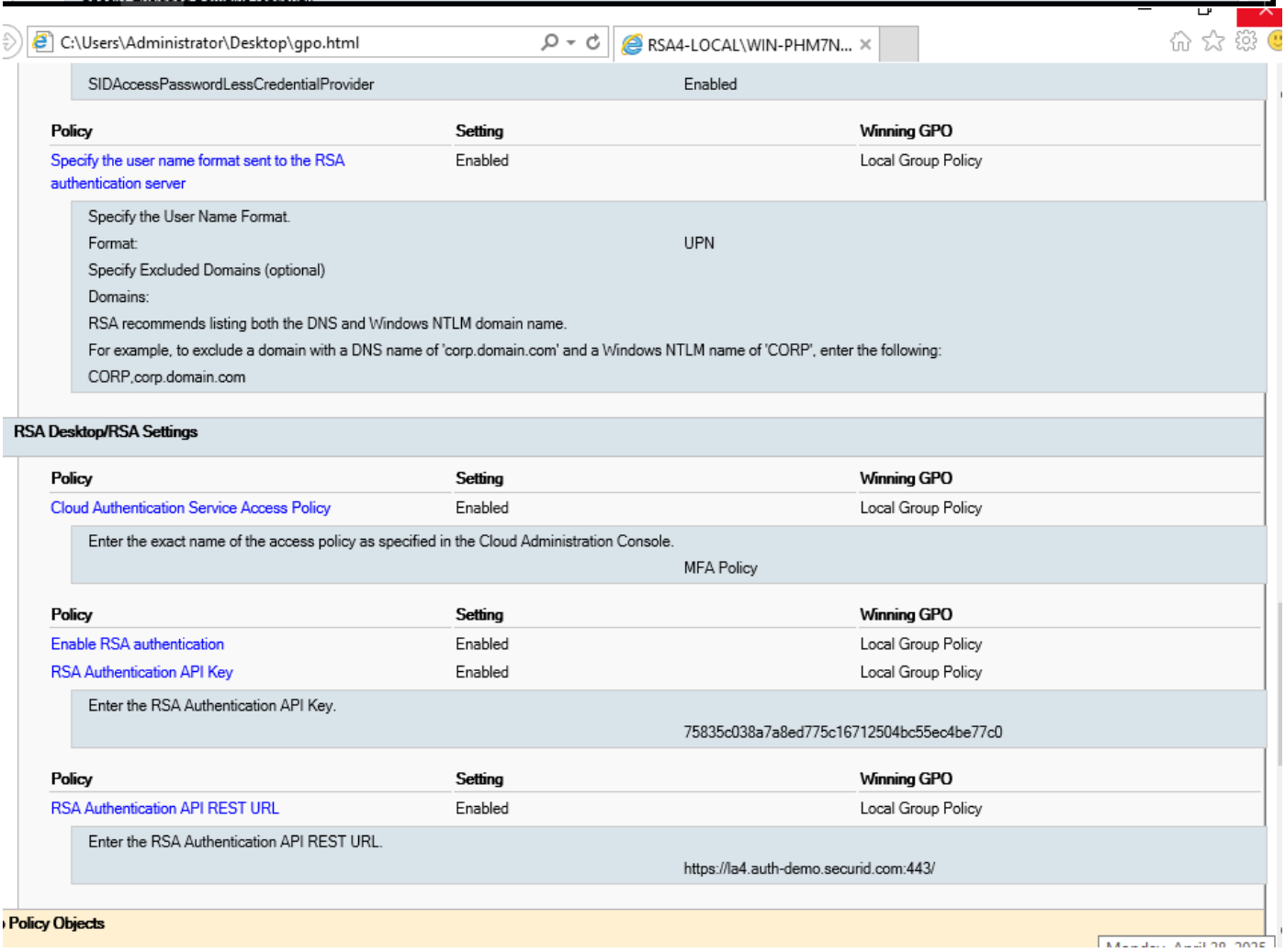
Select the users to challenge	
Challenge:	Users In a group
Enter the name of the challenge group in the format <domain name or machine name>\<group name>.	
For example: CORP\SecurID Users	
Group name:	rsa4-local\Project
Secondary Group name:	

Policy	Setting	Winning GPO
Specify logging options	Enabled	Local Group Policy

Select the log level.	Verbose
Select the number of log files to rotate.	
	5
Select the log file size.	
MB:	5
Enter the path to store log files.	
Select the components to include in the log files.	
OfflineAuthentication	Enabled
RsaMfaAgentTestAuthentication	Enabled
SIDAccessCredentialProvider	Enabled
SIDAccessNotificationIcon	Enabled
SIDAccessPasswordLessCredentialProvider	Enabled

Policy	Setting	Winning GPO
Specify the user name format sent to the RSA authentication server	Enabled	Local Group Policy

Specify the User Name Format.	
Format:	UPN
Specify Excluded Domains (optional)	



SIDAccessPasswordLessCredentialProvider	Enabled

Policy	Setting	Winning GPO
Specify the user name format sent to the RSA authentication server	Enabled	Local Group Policy

Specify the User Name Format.	
Format:	UPN
Specify Excluded Domains (optional)	
Domains:	
RSA recommends listing both the DNS and Windows NTLM domain name.	
For example, to exclude a domain with a DNS name of 'corp.domain.com' and a Windows NTLM name of 'CORP', enter the following:	
CORP,corp.domain.com	

RSA Desktop/RSA Settings

Policy	Setting	Winning GPO
Cloud Authentication Service Access Policy	Enabled	Local Group Policy

Enter the exact name of the access policy as specified in the Cloud Administration Console.	
	MFA Policy

Policy	Setting	Winning GPO
Enable RSA authentication	Enabled	Local Group Policy
RSA Authentication API Key	Enabled	Local Group Policy

Enter the RSA Authentication API Key.	
	75835c038a7a8ed775c16712504bc55ec4be77c0

Policy	Setting	Winning GPO
RSA Authentication API REST URL	Enabled	Local Group Policy

Enter the RSA Authentication API REST URL.	
	https://la4.auth-demo.securid.com:443/

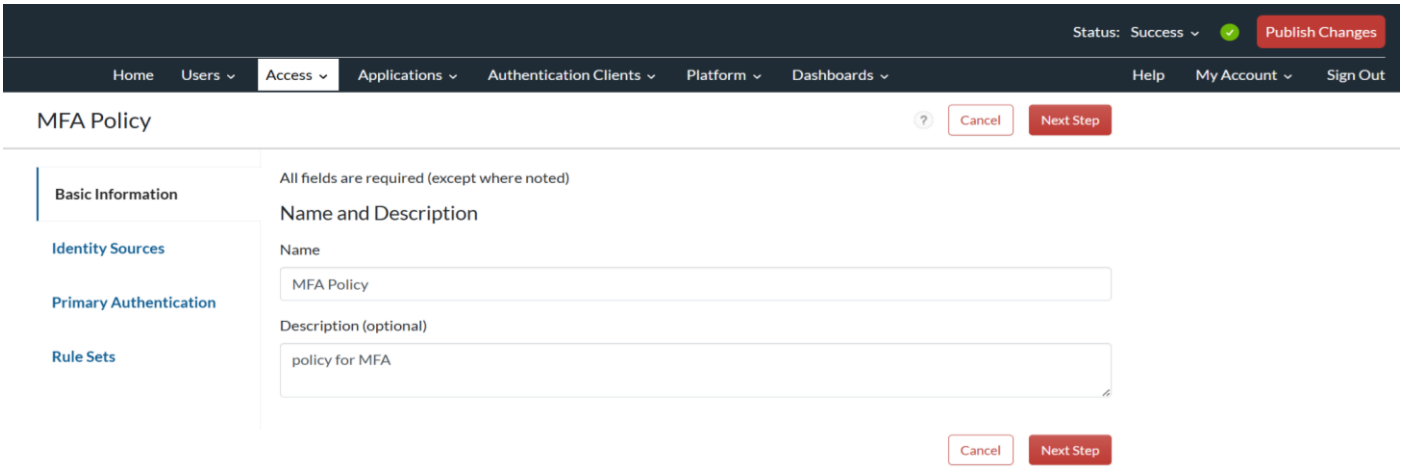
Policy Objects

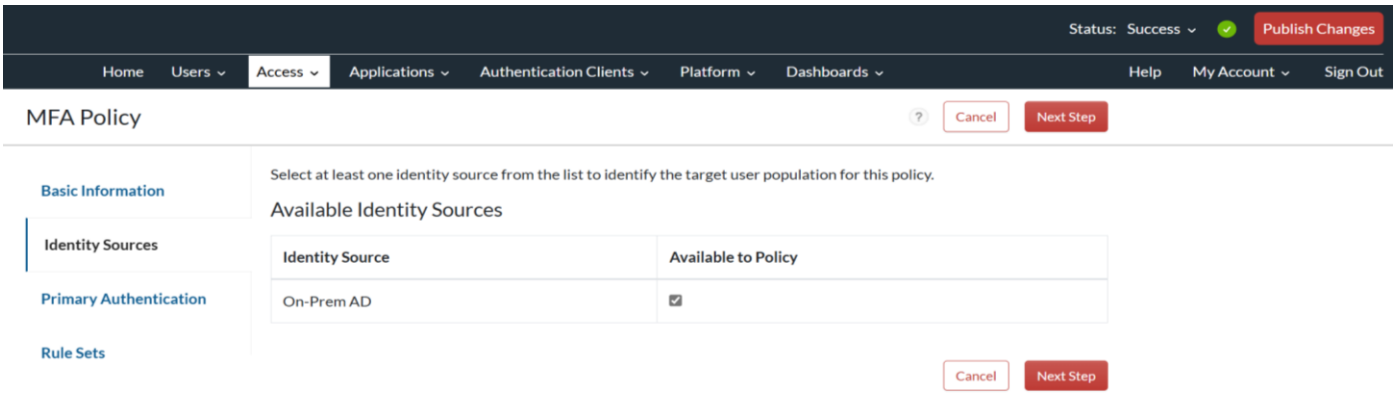
b. Configurations done on RSA CAS side

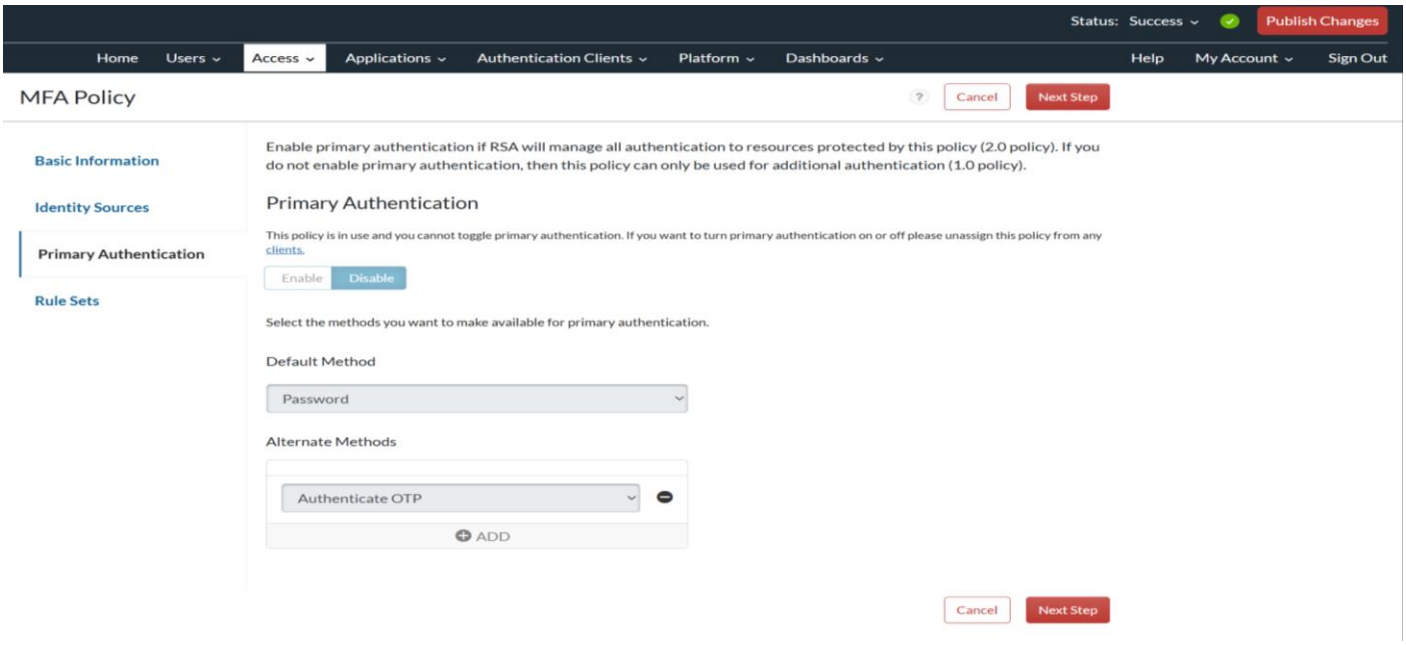
*** **SECOND SCREENSHOTS:** *The configurations mentioned below*

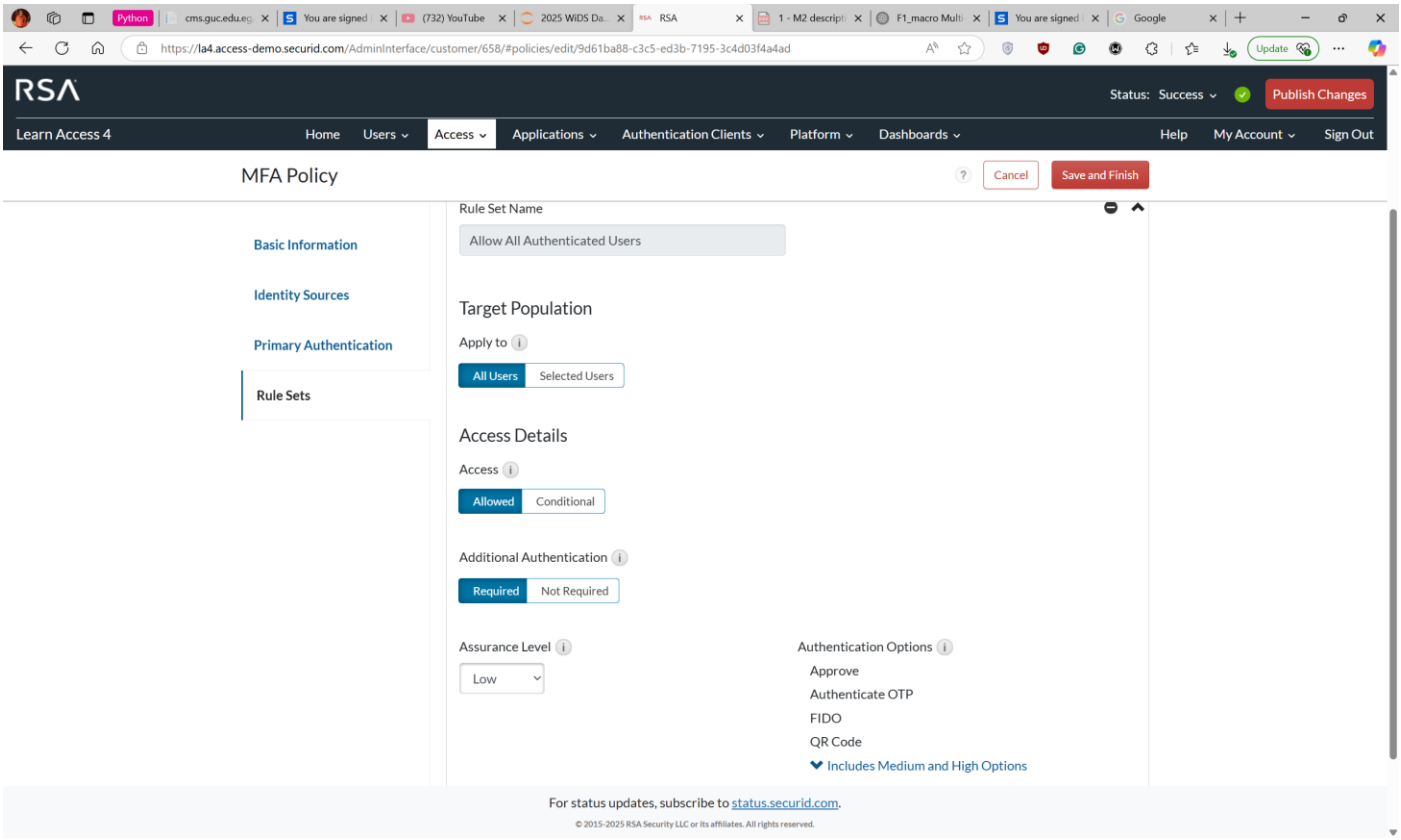
- Access Policy applied
- RSA Authentication API Key
- RSA Authentication API REST URL

Access Policy applied

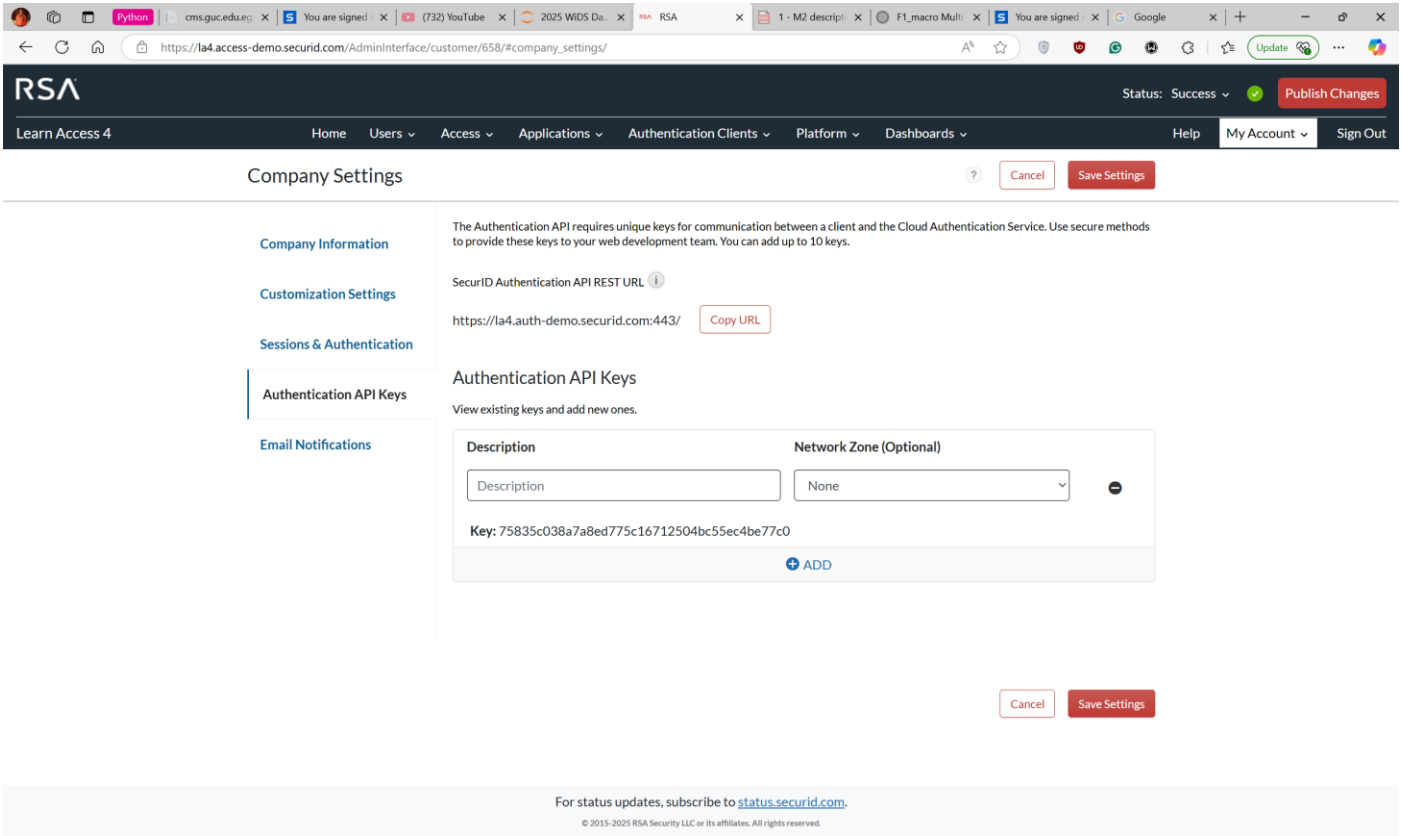






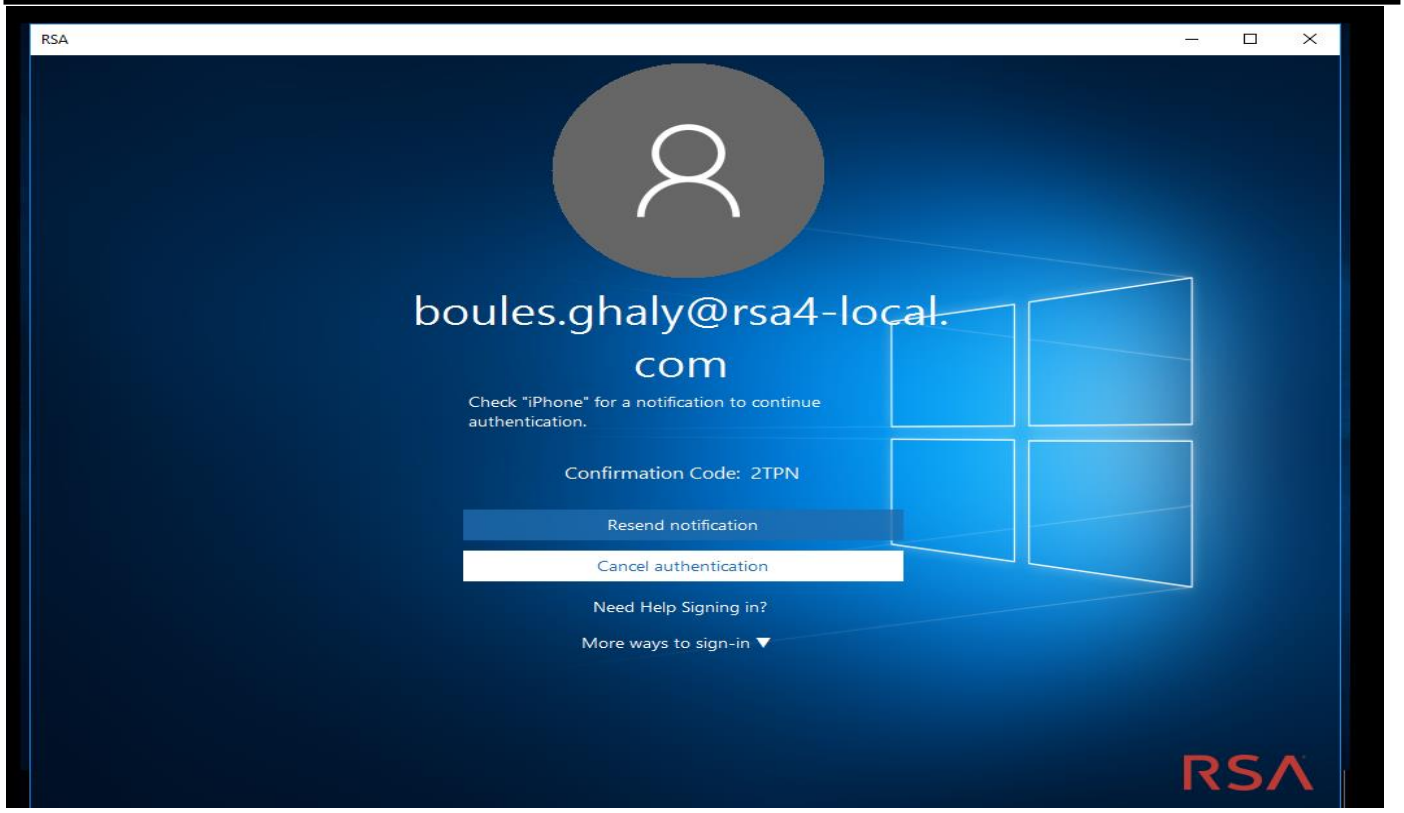


-RSA Authentication API Key
-RSA Authentication API REST URL

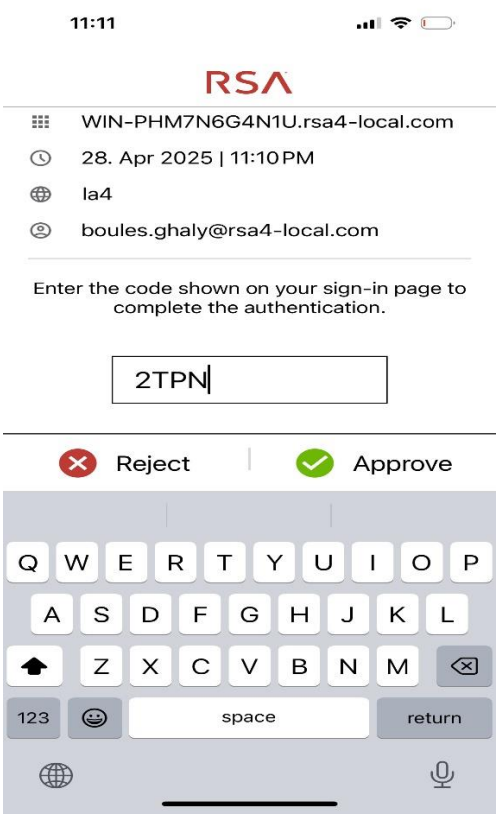


3. RSA MFA Agent Authentication

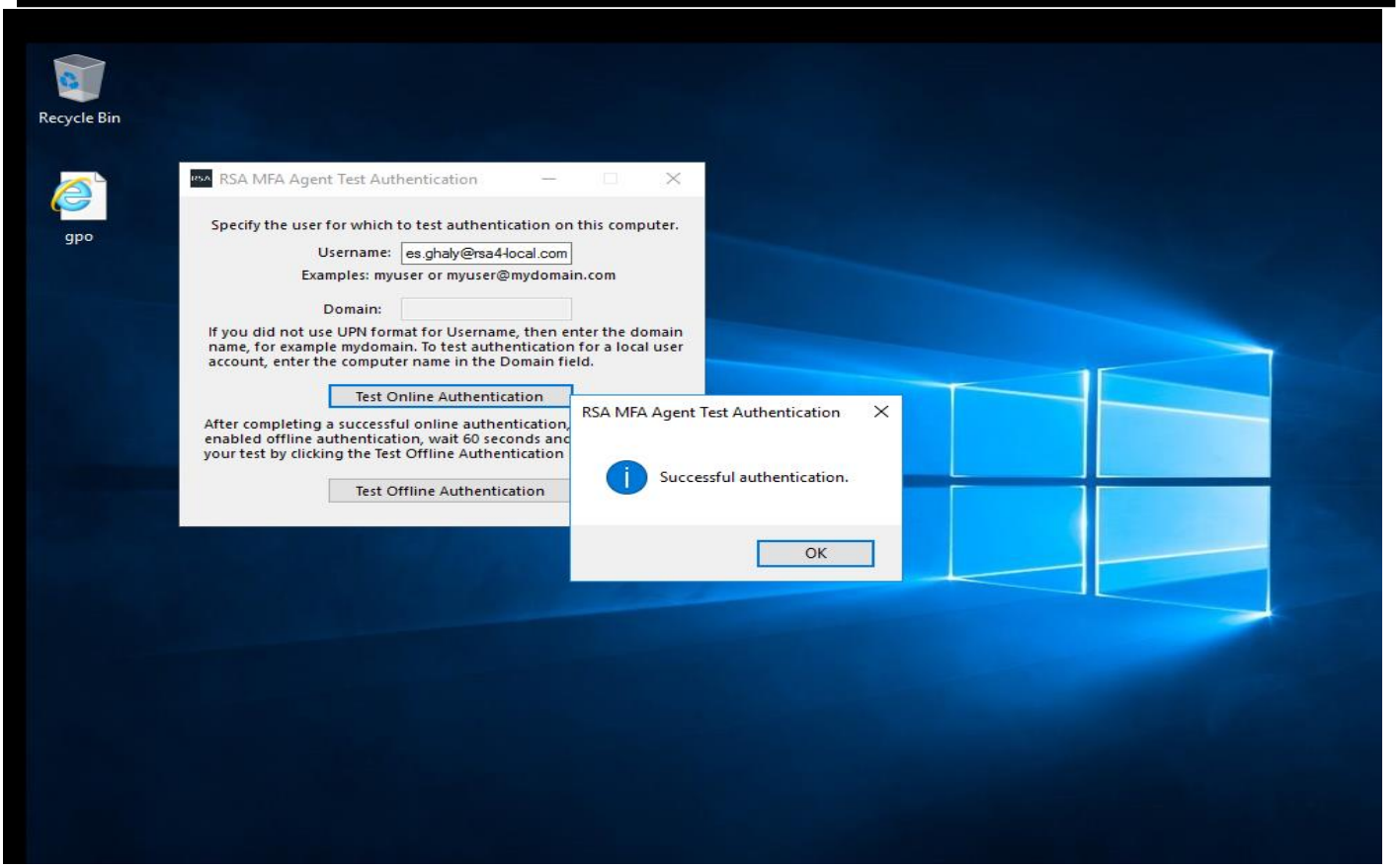
*** THIRD SCREENSHOT: The RSA MFA Agent additional authentication page showing the push notification and code matching feature as a result of testing ONLINE Authentication



*** FOURTH SCREENSHOT: RSA Authenticator app. screenshot showing the push notification (challenge request) that contains approve/deny buttons



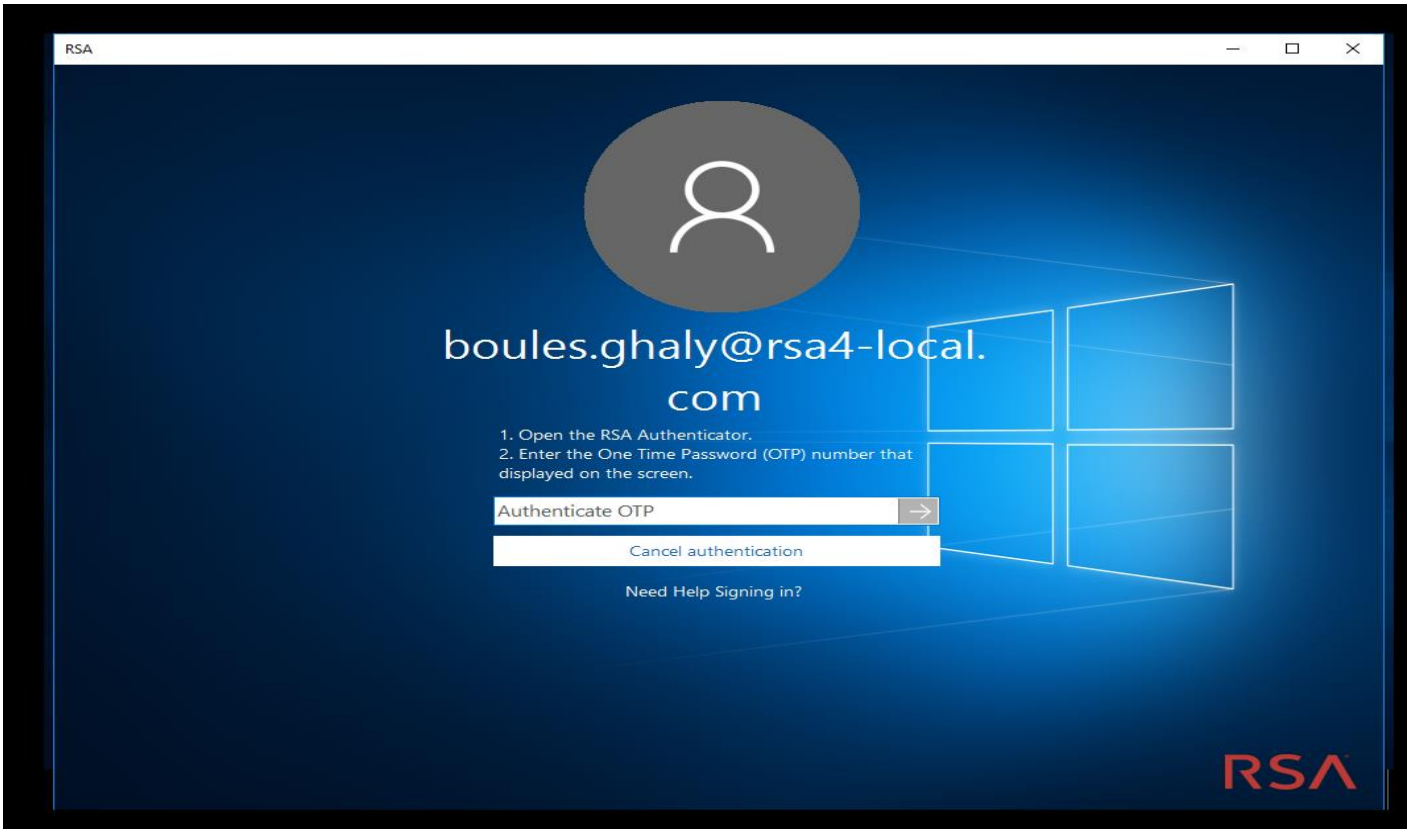
***FIFTH SCREENSHOT: RSA MFA Agent Test Authentication Result (Successful/Failed authentication)



***SIXTH SCREENSHOT: User authentication activity from the RSA CAS User Event Monitor showing successful authentication against RSA MFA Agent

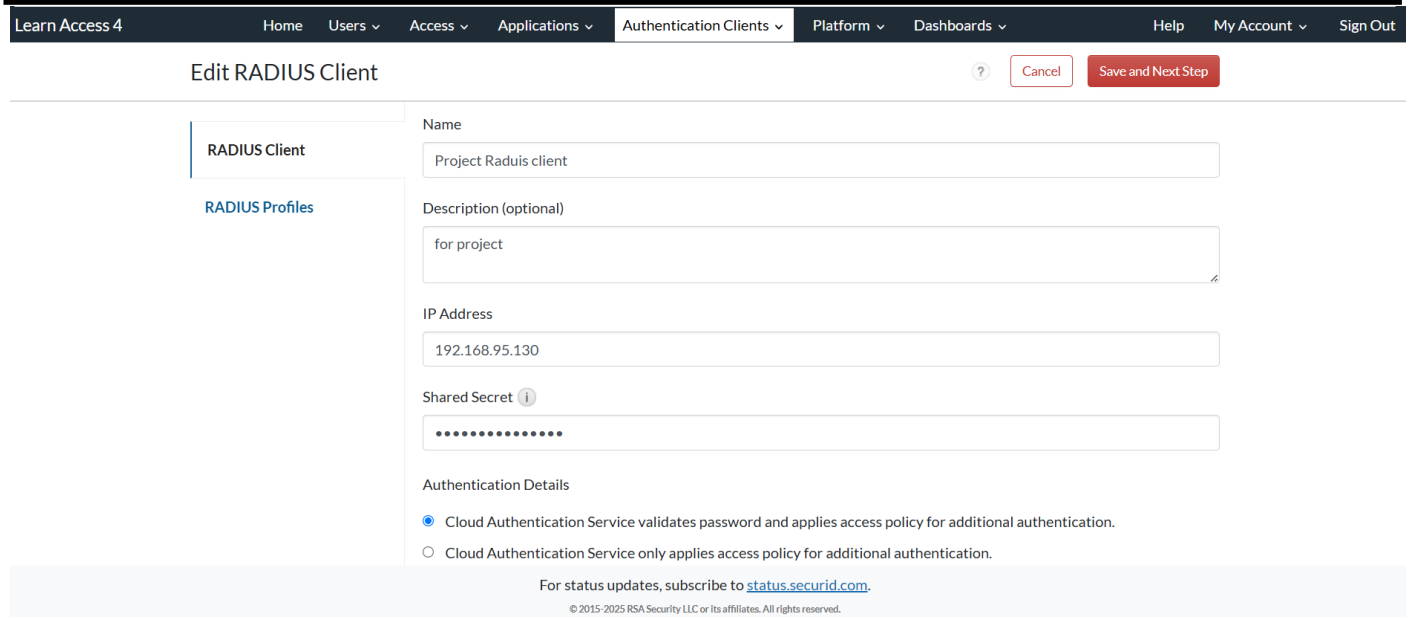
Transaction ID	Timestamp	User ID	Event Code	Description	Application	Assurance Level	Method	Authentication Details
348e7185-02ba-4cdb-90a7-7136618ab1fd	Apr 28, 2025 01:11 PM PDT	boules.ghaly@rsa4-local.com	3014	Offline day data download successful.	WIN-PHM7N6G4N1U.rsa4-local.com		BIOMETRICS	User ID:boules.ghaly@rsa4-local.com, userUuid:989d66d2-d8c7-99b3-7ac8-daeed12af0dc, Credential ID:620148555005, Name:iPhone

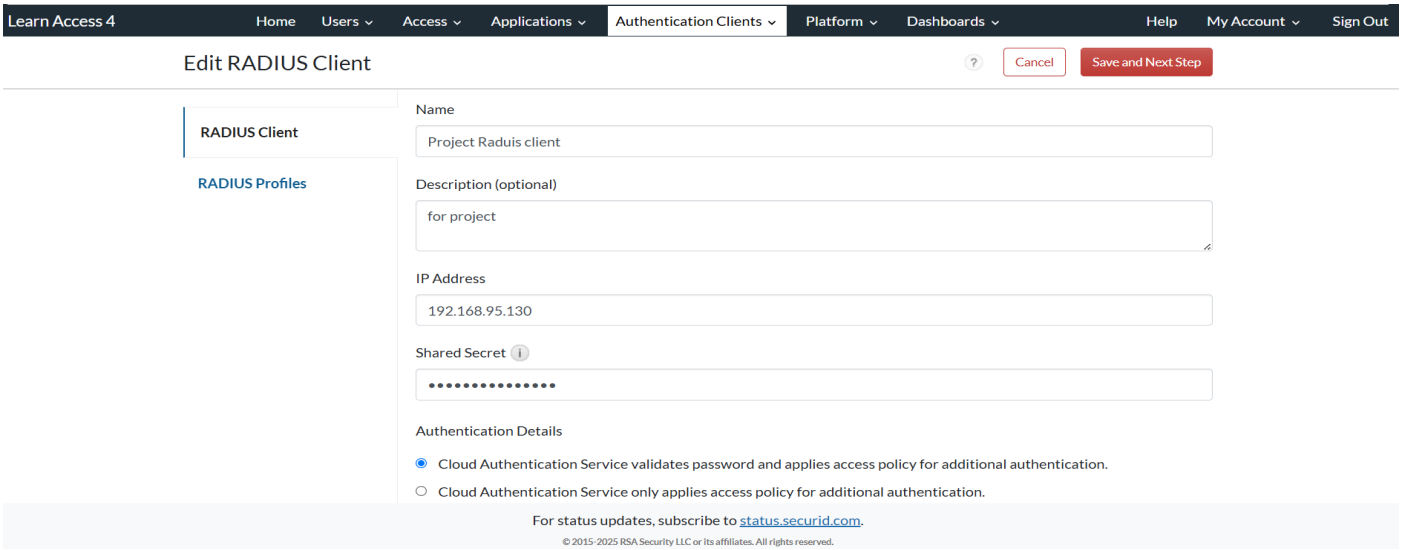
***SEVENTH SCREENSHOT: The RSA MFA Agent additional authentication page showing the push notification and code matching feature as a result of testing OFFLINE Authentication



4. RADIUS client Configurations

***EIGHTH SCREENSHOT: RADIUS Client configurations on the RSA CAS side




Learn Access 4
Home
Users
Access
Applications
Authentication Clients
Platform
Dashboards
Help
My Account
Sign Out
Edit RADIUS Client
Cancel
Save and Next Step
RADIUS Client
RADIUS Profiles
Name
Project Raduis client
Description (optional)
for project
IP Address
192.168.95.130
Shared Secret
Authentication Details
Cloud Authentication Service validates password and applies access policy for additional authentication.
Cloud Authentication Service only applies access policy for additional authentication.
For status updates, subscribe to status.securid.com.
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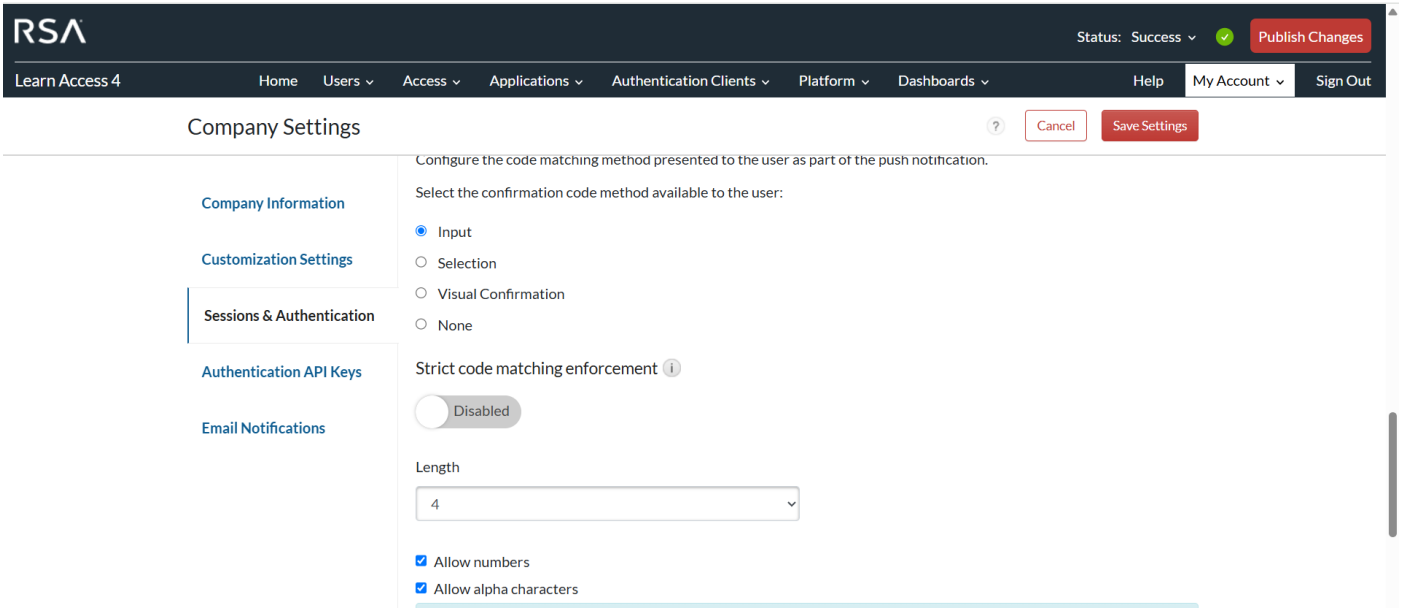
1.0 Access Policy
MFA Policy

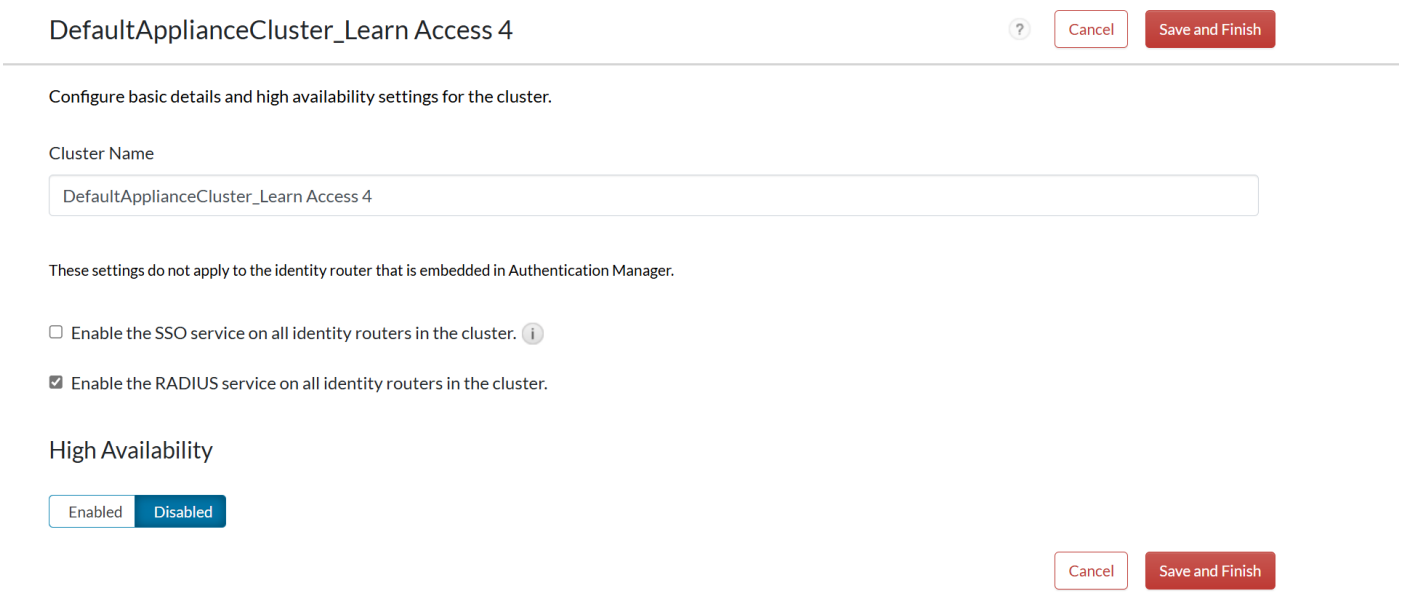

Advanced Configuration


RSA
Status: Success
Publish Changes
Learn Access 4
Home
Users
Access
Applications
Authentication Clients
Platform
Dashboards
Help
My Account
Sign Out
Company Settings
Cancel
Save Settings
Company Information
Customization Settings
Sessions & Authentication
Authentication API Keys
Email Notifications
Configure the code matching method presented to the user as part of the push notification.
Select the confirmation code method available to the user:
Input
Selection
Visual Confirmation
None
Strict code matching enforcement
Disabled
Length
4
Allow numbers
Allow alpha characters

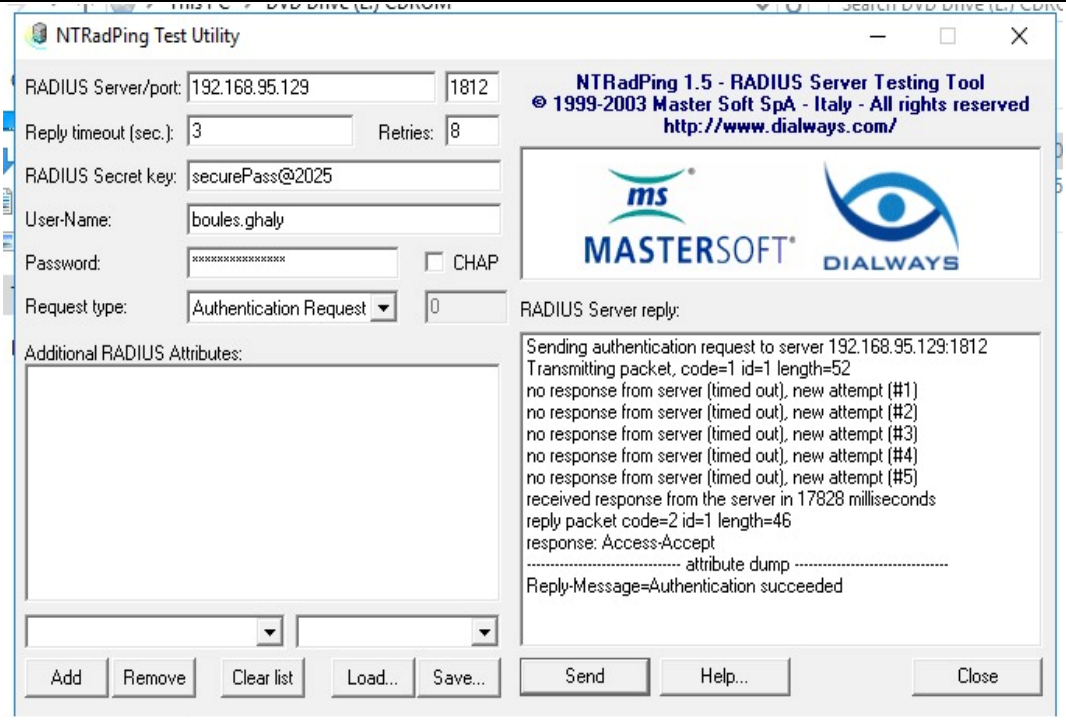
5. RADIUS client Authentication

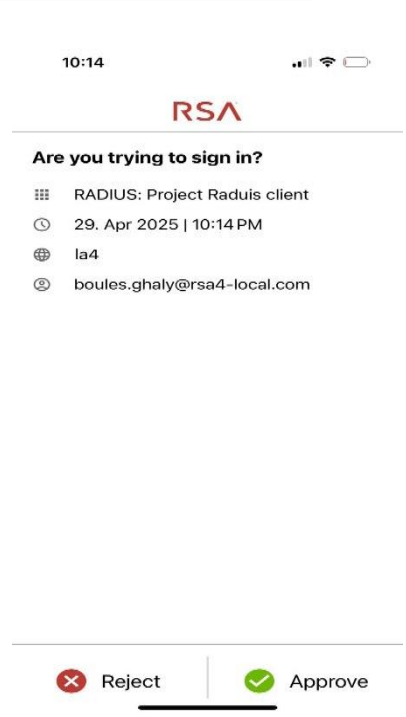
***NINGTH SCREENSHOT: RADIUS Client configurations on the RSA CAS side*

ALREADY done Above in part 4



*** TENTH SCREENSHOT: RSA Authenticator app. screenshot showing the push notification (challenge request) that contains approve/deny buttons*





***ELEVENTH SCREENSHOT: User authentication activity from the RSA CAS User Event Monitor showing successful authentication against RADIUS client*

Showing 1 - 10 of 10 Results

Filter: User ID/Transaction ID Last: 4 hours All Events Search Include Verbose Logs

Transaction ID	Timestamp	User ID	Event Code	Description	Application	Assurance Level	Method	Authentication Details
9dd7945e-7d70-4812-8fb0-d0c6ea709a90	Apr 29, 2025 12:14 PM PDT	boules.ghaly@rsa4-local.com	20302	Multifactor authentication succeeded.	RADIUS: Project Raduis client			Policy Name: MFA Policy; attempt_id: bf10e279...
9dd7945e-7d70-4812-8fb0-d0c6ea709a90	Apr 29, 2025 12:14 PM PDT	boules.ghaly@rsa4-local.com	801	Biometric authentication succeeded.	RADIUS: Project Raduis client	Low	BIOMETRICS	attempt_id: bf10e279...