FORUM SYSTEMS SENTRY™ VERSION 9.1 RSA SECURID INTEGRATION GUIDE

Forum Systems Sentry™ Version 9.1 RSA SecurID Integration Guide, published January 2021.

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INTRODUCTION TO THE RSA SECURID INTEGRATION GUIDE

Audience for the RSA SecurID Integration Guide

The *Forum Systems Sentry™ Version 9.1 RSA SecurID Integration Guide* is for System Administrators and policy developers who will manage access control to the Forum Sentry WebAdmin interface and build runtime policies using two factor authorization/authentication leveraging Sentry's integration with RSA SecurID.

Conventions Used

A red asterisk (*) aligned with a field term means that this field is required. In this and other documentation, the Web Administration Interface is referred to as the WebAdmin and the Forum Sentry API Gateway™ is referred to as the 'device', 'product' or 'system'.

In this document, all data or commands that must be entered or selected are displayed in boldface. Example:

User name: **johnsmith**
Password: **********

UI screens which display a STATUS column represent the following states:

- Green status light = enabled policy.
- Red status light = disabled policy.

Throughout this and other documents in the Documentation Set, repetitive actions not always shown, this includes:

- View / edit a policy
- Enable / disable a policy
- Delete a policy
- Rename a policy
- Limit display of policies with Search or Max Results fields.

For more information, refer to the Common Operations section of the *Forum Systems Sentry™ Version 9.1 Web-based Administration Guide.*

Customers with plug-in licenses on the system, confirm that your Integration License is visible on the General Info screen under the SUPPORTED FEATURES section.

Any specifications and constraints referenced in this volume appear in the Appendices of this volume.

RSA SecurID Background

RSA SecurID is a mechanism developed by RSA Security for performing two-factor authentication for a user to a network resource. The RSA SecurID authentication mechanism consists of:

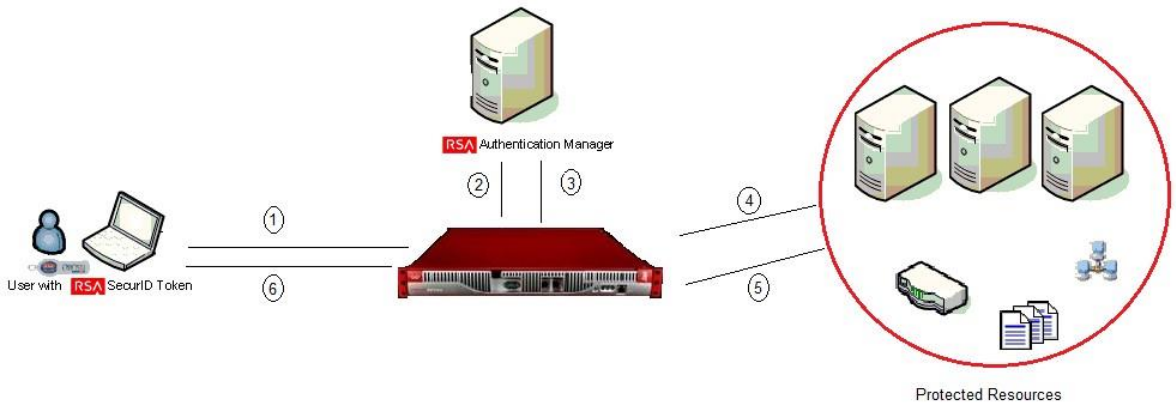
1) A “token” generator – either hardware or software
2) Authentication Agents
3) RSA SecurID Server

Authentication Agents are records in the RSA Authentication Manager database that contain information about the systems for which RSA SecurID authentication is provided. For the purposes of this document, Forum Sentry instances are the Authentication Agents.

The token generator is assigned to a user and generates an authentication code at fixed interval (usually 60 seconds) using a built-in clock and factory encode random key (seed). The seed is different for each and is loaded into the corresponding RSA SecurID server.

The RSA SecurID Server is used to manage authentication agents, user accounts and token generator assignments.

This document provides an overview of configuring Forum Sentry for use with RSA SecurID Authentication. In this solution, Forum Sentry is configured as an Authentication Agent on the RSA Authentication Server to enable two factor authentication to the Sentry WebAdmin interface or to manage end user access to back end web services, applications or any number of back end resources that need to be exposed and controlled.



RSA SecurID Support on the System

Sentry's WebAdmin portal can be used to manage RSA SecurID configuration and supports RSA SecurID tokens for both administrative and run-time access to policies in Sentry. The WebAdmin is a web-based management interface used for monitoring as well as configuring all aspects of Forum Sentry including server, security and network policies.

RSA SecurID Concepts and Definitions

The following table defines various RSA SecurID terms and concepts:

CONCEPT	DEFINITION
Sdconf.rec	The RSA Authentication Manager configuration file.
token	Hardware or software generated and assigned to a user which generates an authentication code.
Sdopts.rec	RSA Authentation Manager optional configuration file.
Authentication agent	Records in the RSA Authentication Manager database that contain information about the systems for which RSA SecurID authentication is provided.
RSA Authentication Manager	The server where RSA Authentication Console has been installed on and is used to manager RSA users, agents, and tokens. It is expected that the reader has access to and working knowledge of the RSA Server.

RSA SECURID CONFIGURATION WITH FORUM SENTRY

Configuring Forum Sentry for use with RSA SecurID involves creating an authentication agent in RSA SecurID that corresponds to the Forum Sentry instance, creating user accounts, and assigning tokens to the user accounts. Forum Sentry is then configured to reference the RSA SecurID server. Lastly, RSA policies are created in Forum Sentry for either runtime or administrative access.

Authentication Agent Configuration

Authentication Agents are records in the RSA Authentication Manager database that contain information about the systems for which RSA SecurID authentication is provided. All RSA SecurID-enabled systems require corresponding Authentication Agents. Authentication Agents are managed using the RSA Security Console.

The following information is required to create an Authentication Agent:

Forum Sentry Hostname
Forum Sentry IP Addresses

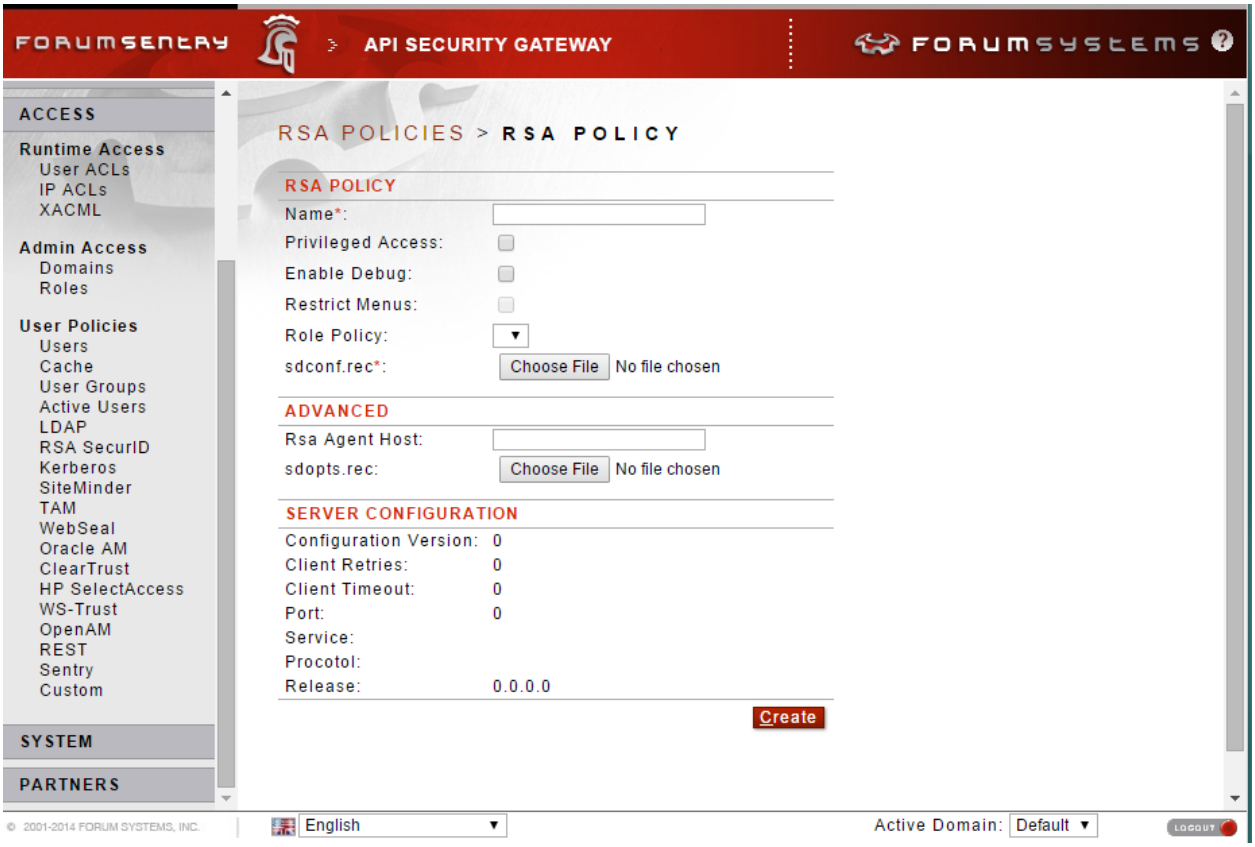
Set the Agent Type to "Standard Agent" when adding the Authentication Agent. This setting is used by the RSA Authentication Manager to determine how communication with Forum Sentry.

Note: Hostnames within the RSA Authentication Manager / RSA SecurID Appliance must resolve to valid IP addresses on the local network.

Configure Sentry with RSA SecurID

1. Log on to the WebAdmin and navigate to ACCESS → User Policies → RSA SecurID. On the RSA POLICIES screen, select the New button to create RSA Policy.

2. On the RSA Policy creation screen, enter the RSA Server Manager information.



The required options are the Name and sdconf.ref file. Refer to the following table for a detailed description of all options on the RSA Policy creation screen. When creating an RSA policy for WebAdmin administrative account, check the “Privileged Access” option. Otherwise, leave this option unchecked when creating an RSA policy for runtime access.

3. Select the Create button to create the RSA policy.

The green STATUS light indicates that the RSA Policy is now active and is ready to perform RSA SecurID Authentications.

RSA SecurID Policy Creation Screen Terms

The RSA SecurID configuration screen includes the following terms and definitions:

TERM	DEFINITION
Name	The name this RSA SecurID policy will be referenced by.
Privileged Access	When enabled, the user has access to the WebAdmin as a super user.
Enable Debug	Enables debug log level logs to be created.
Restrict Menu	Enables restricting menus for WebAdmin users.
Role Policy	When restricting menus, the Role Policy dictates which menus the WebAdmin users have access to.
sdconf.rec	The Choose File button allows for the RSA Authentication Manager Configuration file to be selected and uploaded to Sentry. It is also made available for download from Sentry once imported.
RSA Agent Host	Indicates the IP address of the agent host in the Authentication Manger database.
sdopts.rec	The Choose File button allows for the RSA Authentication Manager optional configuration file to be uploaded to Sentry. It is also made available for download from Sentry once imported.
Configuration Version	The version of the sdconf.rec file that is in use. For Authentication Manager 5.1 or later, this number is 14.
Client Retries	The number of times the agent sends authentication data to the Authentication Manager before a timeout occurs.
Client Timeout	The amount of time (in seconds) that the agent waits before resending authentication data to the Authentication Manager.
Port	UDP port of the Authentication Manager authentication service
Service	Name of the RSA Authentication Manager authentication service
Release	The version number of the RSA Authentication Manager
Servers	The IP address that the agent uses to communicate with the server. This address could be the actual IP address of the server you have selected, or it could be an alias IP address assigned to the server. An IP address of 0.0.0.0 indicates that the agent has not yet received communication from the server.

RSA SecurID Access Examples

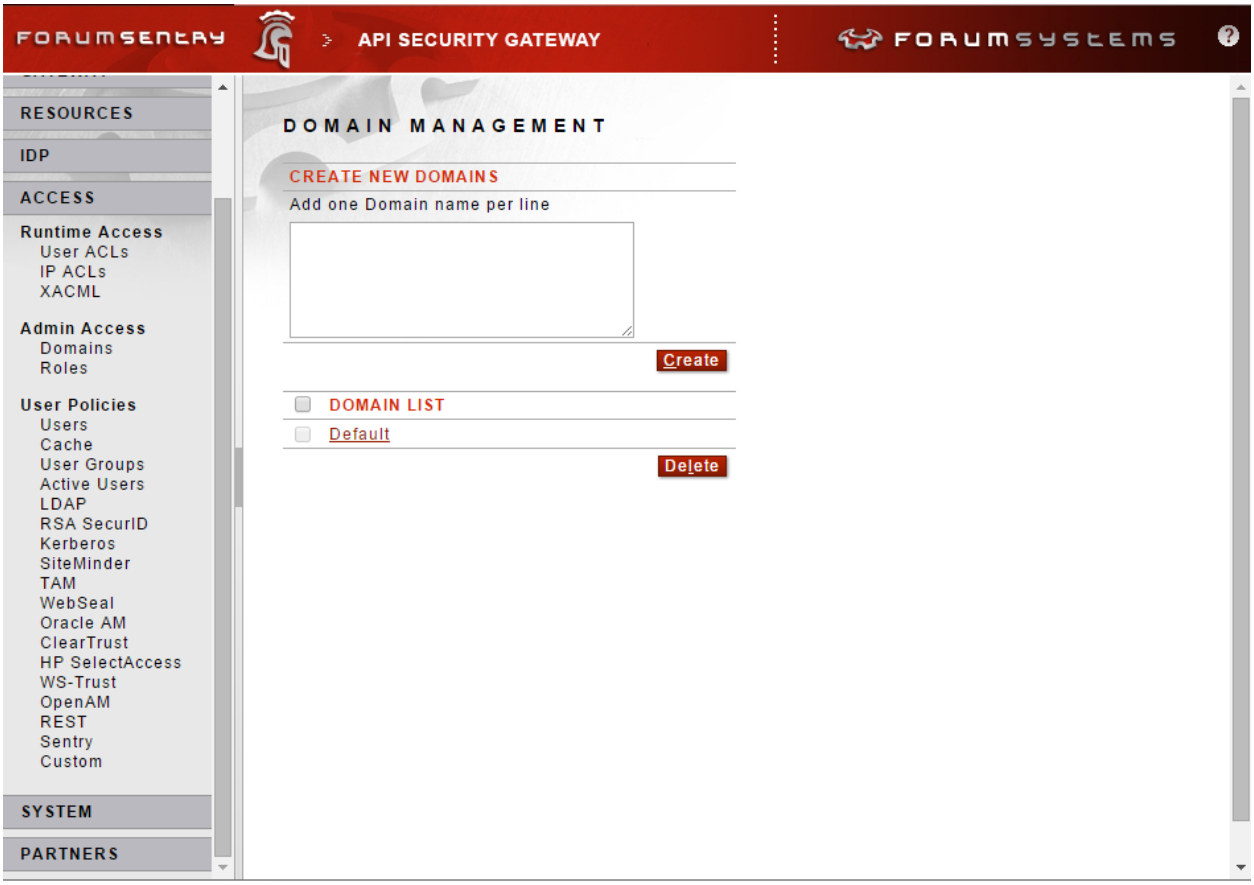
Examples for working with RSA SecurID access include:

- Accessing Forum Sentry WebAdmin using RSA SecurID user with token generator
- Using RSA SecurID(with token) user for runtime access

Note: RSA SecurID user accounts can also be configured for runtime or administrative access to Sentry without the use of tokens. When the user account is configured this way, authentication is achieved using the user account name and password (RSA pin) only without a token.

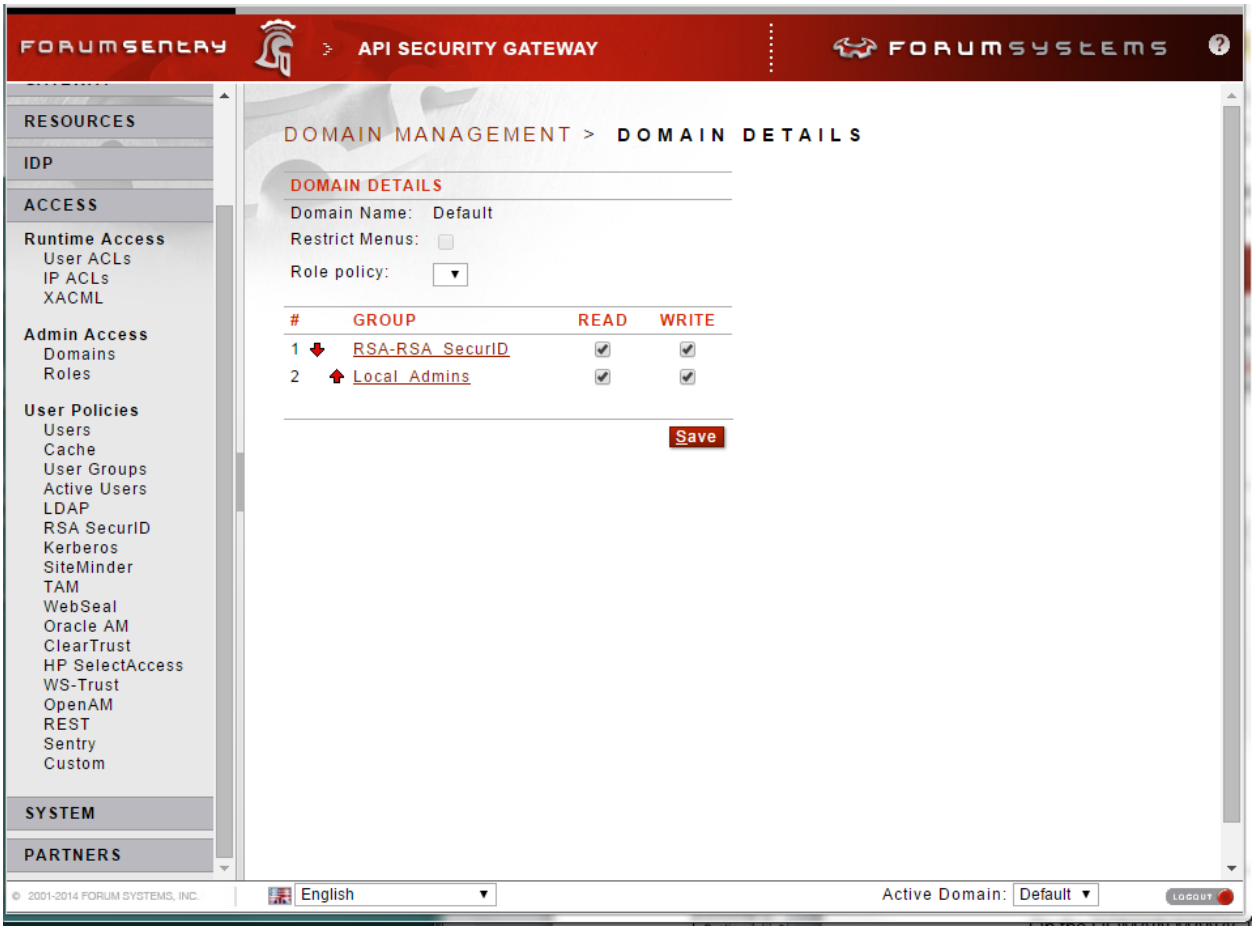
WebAdmin Administration with RSA SecurID

1. To use an RSA policy for WebAdmin administration, ensure that the “Privileged Access” option is enabled in the RSA policy (note that the “Privileged Access” option enables full access, it is also possible to provided limited access). Then log into the Sentry WebAdmin interface and navigate to Access → Admin Access → Domains.



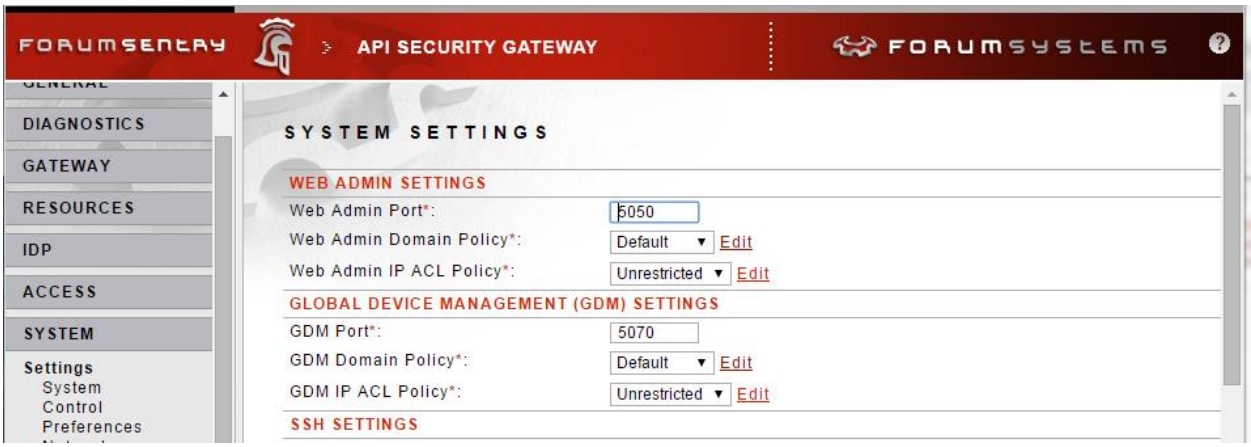
On the DOMAIN MANAGEMENT screen, select or create the Domain to use for WebAdmin administration.

2. On the DOMAIN DETAILS screen, note that an RSA group has automatically been created and added to the listing of available groups to select. The group name will be the name of the RSA policy that was created prefixed with “RSA-“.



Select the READ and/or WRITE check box(es) next to the RSA group to enable the appropriate administrative access for the RSA user accounts. Select the Save button to commit the changes.

3. Once the domain has been modified or created, navigate to the System → Settings → System and select that domain under the Web Admin Domain Policy field.



Initial Login for Web Admin User Accounts

For new RSA user accounts that have not been initialized – a PIN has not been generated for the user account – the user account can be initialized via the Sentry WebAdmin interface. There are two options for initializing an RSA user account via the WebAdmin interface:

1. The PIN can be entered by the user during initial login.
2. A PIN can be generated by the RSA system and presented to the user during the initial login,

Note: RSA SecurID user accounts can also be configured for administrative access to Sentry without the use of tokens. When the user account is configured this way, authentication is achieved using the user account name and password (RSA pin) only without a token.

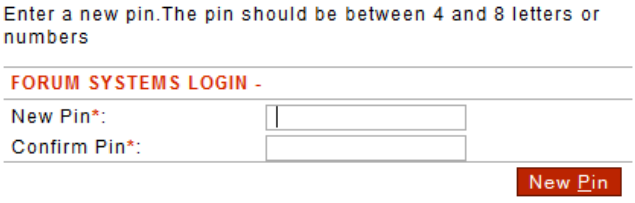
Login Screen:

Once the RSA Policy has been created, an RSA Server Manger account can be used to log into Forum Sentry at the login prompt per the figure below.

User-defined New PIN:

If the RSA Server is configured to allow users to generate their own PIN's, an initial password set by the RSA Server administrator should be used with the user account to first log into Forum Sentry. Subsequently, obtain the initial PIN from the RSA Server administrator.

Log into Forum Sentry with the username and the initial PIN provided by the RSA Server administrator. A prompt will be displayed to create and confirm a new user PIN. Any PIN restrictions regarding PIN length or usable characters is also displayed.

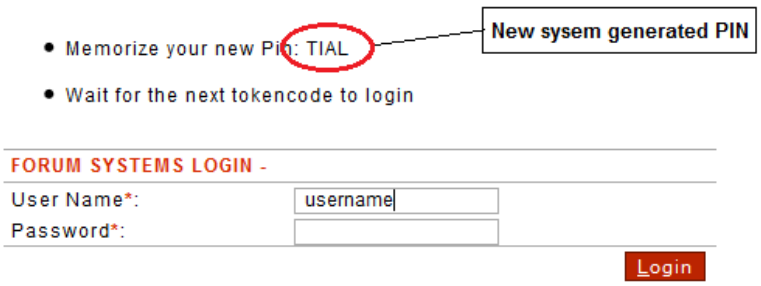


Enter a new PIN and then select the *New Pin* button to confirm and create the user PIN. You will then be returned to the Forum Sentry login page to use the user account name, PIN and token pass code to log in.

Note: The user account password is now the combination of both the PIN and the token pass code. For instance, if the user account PIN is "abc1234", and the current token pass code is "6633 7639", then the password is "abc123466337639".

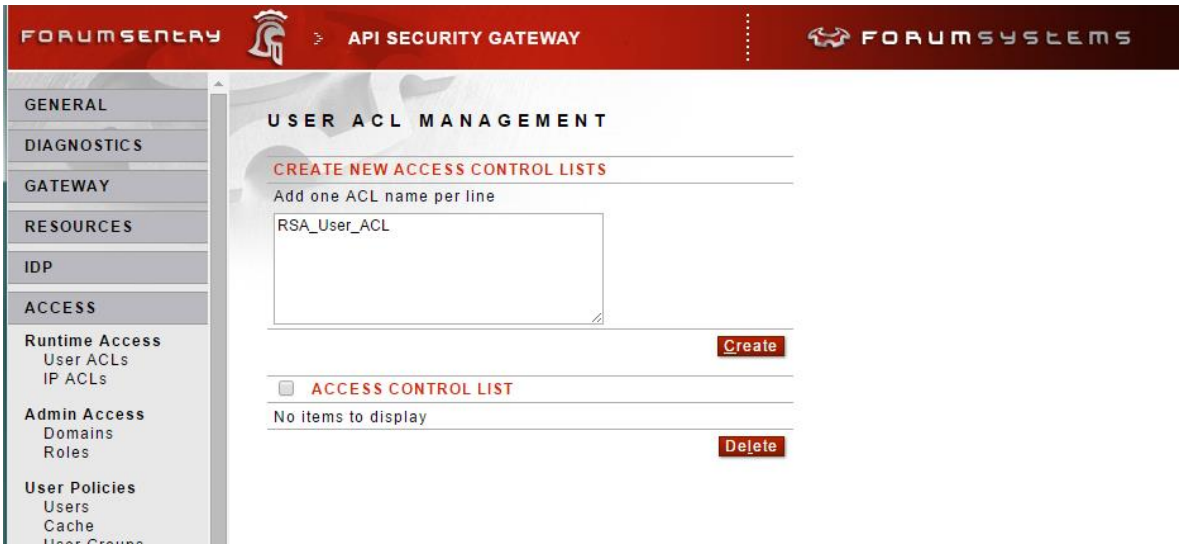
System-generated PIN:

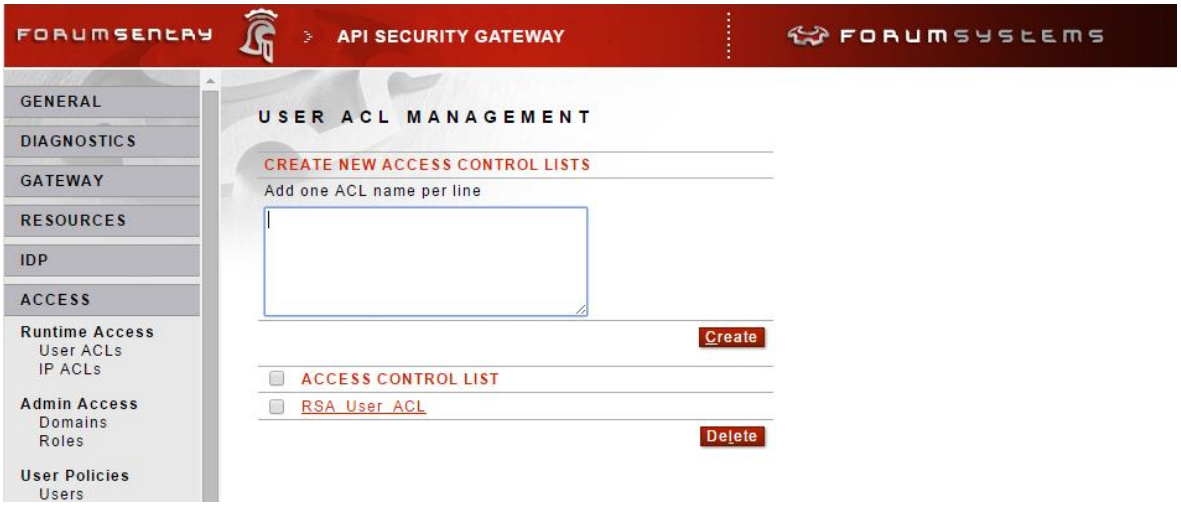
For system generated PIN's, log into Forum Sentry using the assigned username and just the current token code only. A new system generated PIN will be displayed which must be used with all subsequent logins. Record the PIN when displayed as this is the only time Forum Sentry will present the system generated PIN.



Using RSA SecurID User for Runtime Access

1. To use and RSA policy for runtime access, ensure that the “Privileged Access” option is NOT enabled in the RSA policy. Then log into the Sentry WebAdmin interface and navigate to Access → Runtime Access → User ACLs.

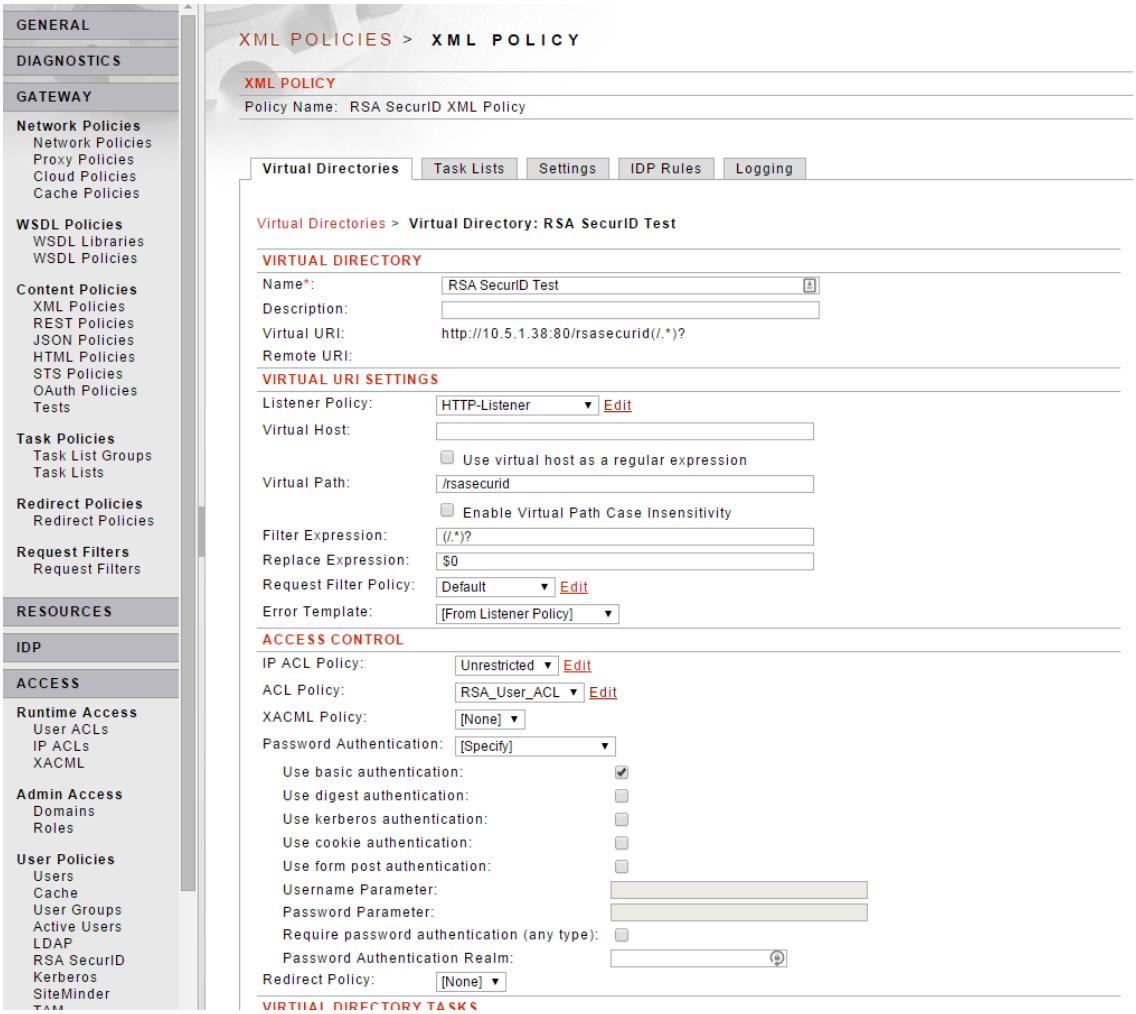




Select an existing user ACL or enter the name of a new ACL and select the create button.

2. On the USER ACL DETAILS screen, note that an RSA group has automatically been created and added to the listing of available groups to select. The group name will be the name of the RSA policy that was created prefixed with “RSA-“.

Select the EXECUTE check box next to the RSA user group to add it to the AC and select the Save button to commit the changes. Once created, the ACL can be added to content policy virtual directories as seen below.



APPENDIX

Appendix A - RSA SecurID References

The following table lists various RSA SecurID references:

SPECIFICATION	REFERENCES SECTION OR DETAILS
RSA SecurID	http://www.emc.com/security/rsa-securid/index.htm
RSA SecurID Hardware Tokens	http://www.emc.com/security/rsa-securid/rsa-securid-hardware-tokens.htm
RSA SecurID Tokenless Authentication	http://www.emc.com/security/rsa-securid/rsa-risk-based-authentication.htm
RSA Authentication Manager	http://www.emc.com/security/rsa-securid/rsa-authentication-manager.htm
RSA SecurID Customer Support	http://www.emc.com/support/rsa/index.htm