



SANGFOR



IAM

Put Video on Specific Websites And Reject Other Video Configuration Guide

Version 12.0.18



Change Log

Date	Change Description
Dec 03, 2019	Version 12.0.18 document release.

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1 Application Scenario

Allowed internal user to visit to specific video, but rejected to visit other web site video.

Requirement condition:

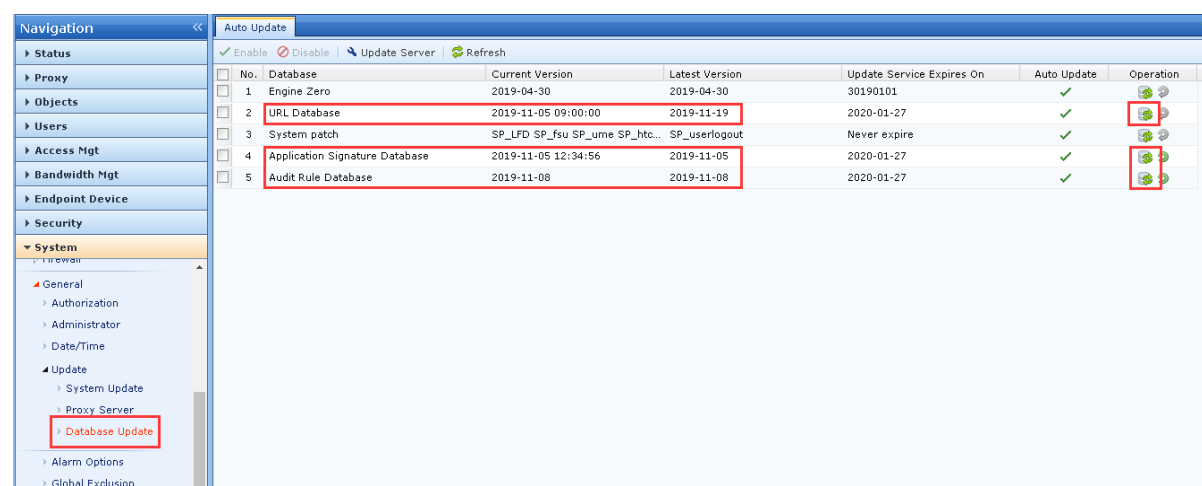
1. Prepare one IAM version 12.0.18 device, with IP address 10.1.3.40.
2. Prepare one PC, with a testing IP address 10.1.3.101.
3. The video browsing address <https://sangfor.com/source/video-videos.html>

2 Configuration Step

First Step: Update database to latest version.

[System] – [General] – [Update] – [Database Update] , verify if the current database version is the latest version, please make sure that [Application Signature Database] has updated to latest version, else click on [Update now] to update to latest version.

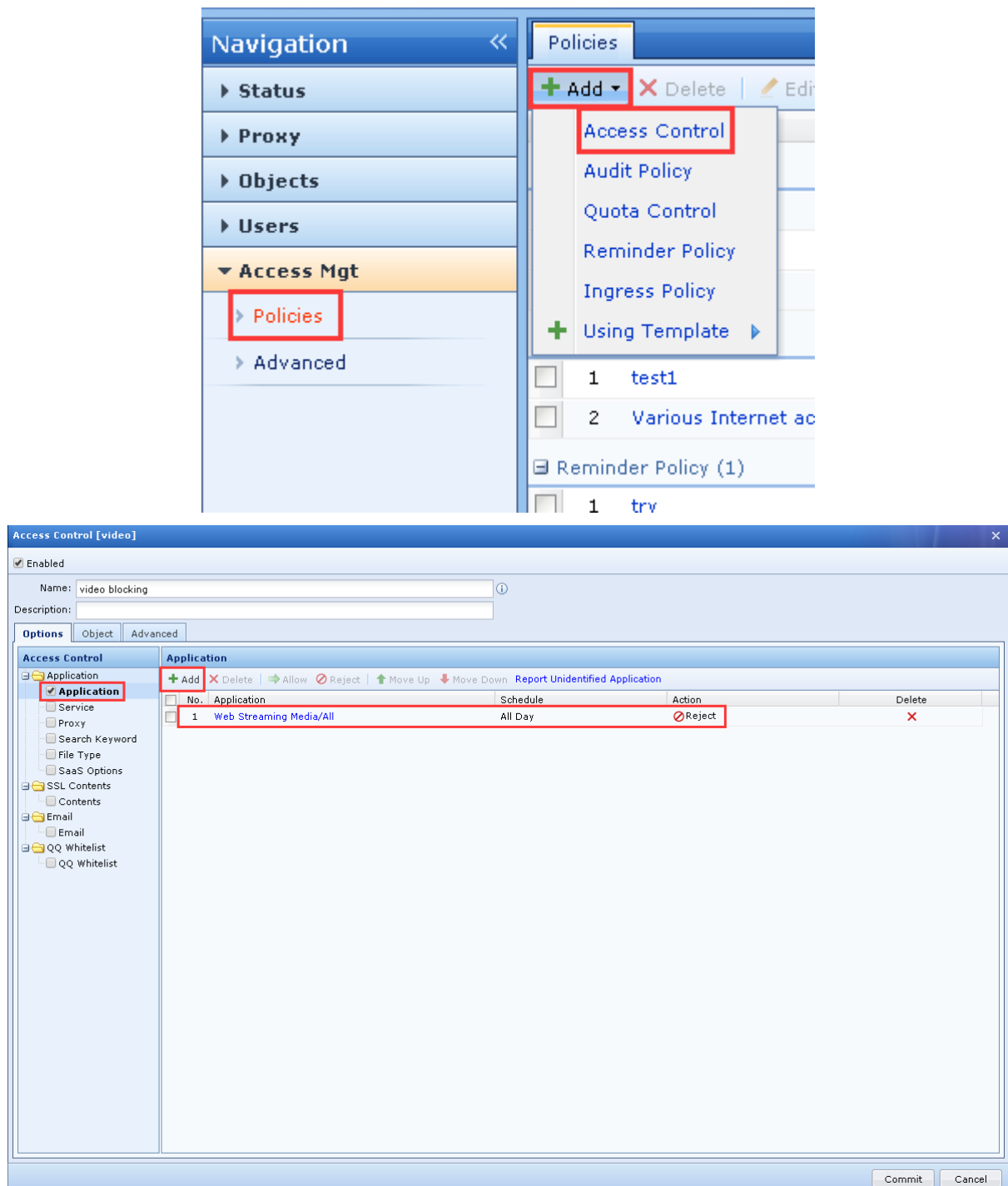
Ensure that [URL Database], [Application Signature Database] and [Audit Rule Database] will have 1 or 2 updates per month.

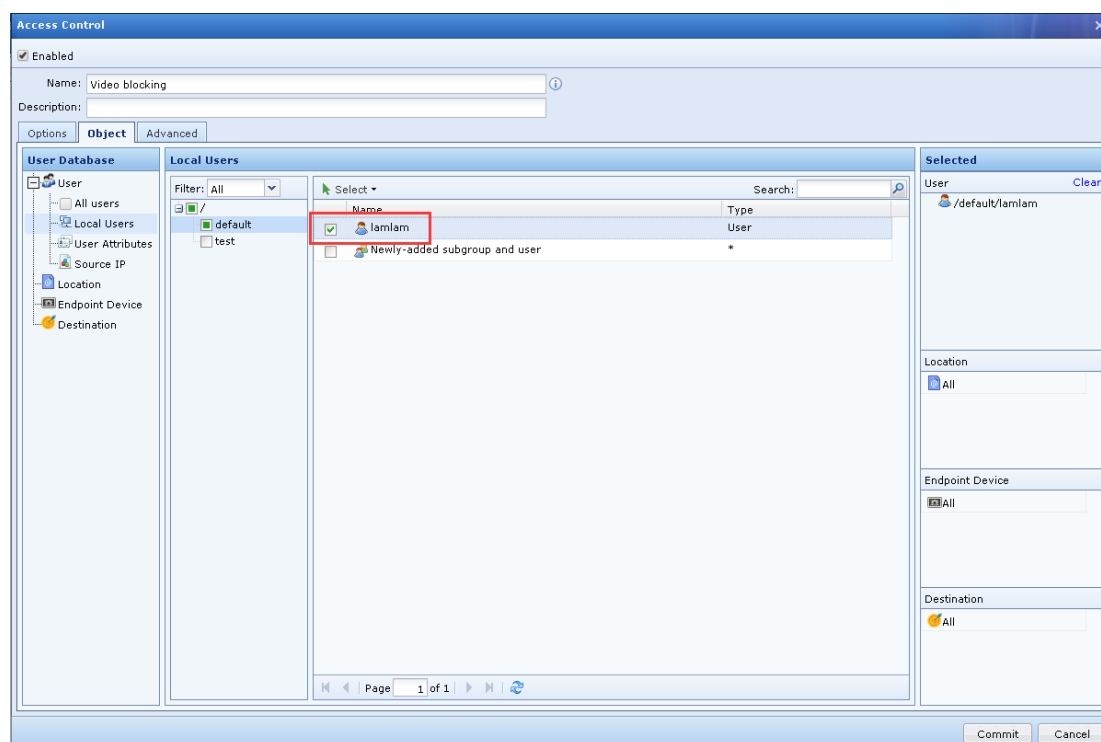


When update the database, please ensure that the license is within the validity period, as well as the device is able to visit website and resolve the domain name normally.

Second Step: Configure access control policy

In [Access Management] – [Policies], click on [Add] – [Access Control] , insert a name for this policy at “Name” bar, then select [Application] , continue click on [Add], select the application [Web Streaming Video/All], [Schedule] as All Day, [Action] as Reject, [Object] you may choose all or some specified user, you will finish the configuration after click on [Commit], the configuration as diagram below.





Third Step: Testing for blocking and targeted release.

By using a PC to watch the video in Sangfor.com, if the video browsing is rejected, checked on the related log in Report Center, determine the causes of video rejected and perform targeted release.

1. Checked the activity log that recorded in Internal Record Center, as we can see the user has enter Sangfor.com to get view on the video. The diagram as below.

No.	Username	Group	Endpoint Device	App Category	Application	Action	Time	Details
10	lamiam	/default	PC	Social Networking	Other Web Social Networking(HT...	✓ Log	2019-12-02 16:29:03	
11	lamiam	/default	PC	Visit Web Site	IT Related	✓ Log	2019-12-02 16:29:03	
12	lamiam	/default	PC	Social Networking	Other Web Social Networking(HT...	✓ Log	2019-12-02 16:29:03	
13	lamiam	/default	PC	Visit Web Site	IT Industry	✓ Log	2019-12-02 16:29:03	
14	lamiam	/default	PC	Web Streaming Media	Youtube encryption Browsing	✗ Reject	2019-12-02 16:29:01	
15	lamiam	/default	PC	Unidentified App	Unidentified App	✓ Log	2019-12-02 16:26:50	
16	lamiam	/default	PC	Unidentified App	Unidentified App	✓ Log	2019-12-02 16:26:35	
17	lamiam	/default	PC	NET Protocol	SANGFOR_Protocol	✓ Log	2019-12-02 16:2350	
18	lamiam	/default	PC	Visit Web Site	Other Enterprise Website	✓ Log	2019-12-02 16:22:23	
19	lamiam	/default	PC	NET Protocol	QUIC	✓ Log	2019-12-02 16:21:07	
20	lamiam	/default	PC	Unidentified App	Unidentified App	✓ Log	2019-12-02 16:18:13	
21	lamiam	/default	PC	Unidentified App	Unidentified App	✓ Log	2019-12-02 16:14:45	

Details		Show Less	
Users: lamiam Groups: /default			
Source IP:	192.168.19.22	Endpoint Devices	PC
Locations:	Not specified		
App Category	NET Protocol		
Application	SANGFOR_Protocol		
Dst IP	1.2.3.4		
Action	Log		
Endpoint Details	PC(Windows PC)		
Src Port	53022		
Port	999		
App Category	SANGFOR_Protocol		

2. In between the time user access Sangfor.com, it has recorded a video rejected record. As the diagram below, it has been identify as **[Web Streaming Media] – [Youtube encryption Browsing]** has been rejected.

Time Taken: 0.22s | Period: 2019-12-02 00:00:00 to 2019-12-02 23:59:59 All Day | Actions: Log, Reject, Alert

No.	Username	Group	Endpoint Device	App Category	Application	Action	Time	Details
10	lanlan	/default	PC	Social Networking	Other Web Social NetworkingHT...	✓ Log	2019-12-02 16:29:03	
11	lanlan	/default	PC	Social Networking	Visit Web Site	✓ Log	2019-12-02 16:29:03	
12	lanlan	/default	PC	Social Networking	Other Web Social NetworkingHT...	✓ Log	2019-12-02 16:29:03	
13	lanlan	/default	PC	Social Networking	Visit Web Site	✓ Log	2019-12-02 16:29:03	
14	lanlan	/default	PC	Web Streaming Media	Youtube encryption Browsing	⊗ Reject	2019-12-02 16:29:01	
15	lanlan	/default	PC	Unidentified App	Unidentified App	✓ Log	2019-12-02 16:26:50	
16	lanlan	/default	PC	Unidentified App	Unidentified App	✓ Log	2019-12-02 16:26:05	
17	lanlan	/default	PC	NET Protocol	SANGFOR Protocol	✓ Log	2019-12-02 16:23:50	
18	lanlan	/default	PC	Visit Web Site	Other Enterprise Website	✓ Log	2019-12-02 16:22:23	
19	lanlan	/default	PC	NET Protocol	QUIC	✓ Log	2019-12-02 16:21:07	
20	lanlan	/default	PC	Unidentified App	Unidentified App	✓ Log	2019-12-02 16:18:13	
21	lanlan	/default	PC	Unidentified App	Unidentified App	✓ Log	2019-12-02 16:14:45	

Entries Per Page: 50

Details

Users: lanlan | Groups: /default

Source IP: 192.168.19.22 | Endpoint Device: PC

Location: Not specified

App Category: Web Streaming Media

Application: Youtube encryption Browsing

Dest IP: 172.217.31.54

Action: Reject

Endpoint Details: PC(Windows PC)

DNS: lyting.com

Src Port: 56590

Port: 443

3. Currently we need to perform some editing on the policy **[Video blocking]**, click on **[Add]** and select the application as **[Web Streaming Video/Youtube encryption Browsing]** and **[Web Streaming Video/Encrypted Youtube Video]**, and action as **[Allow]** then click on **[Commit]**.

Access Control [video blocking]

Enabled

Name: video blocking

Description:

Options | Object | Advanced

Access Control

- Application
 - Service
 - Proxy
 - Search Keyword
 - File Type
 - SaaS Options
 - SSL Contents
 - Contents
 - Email
 - Email
 - QQ Whitelist
 - QQ Whitelist

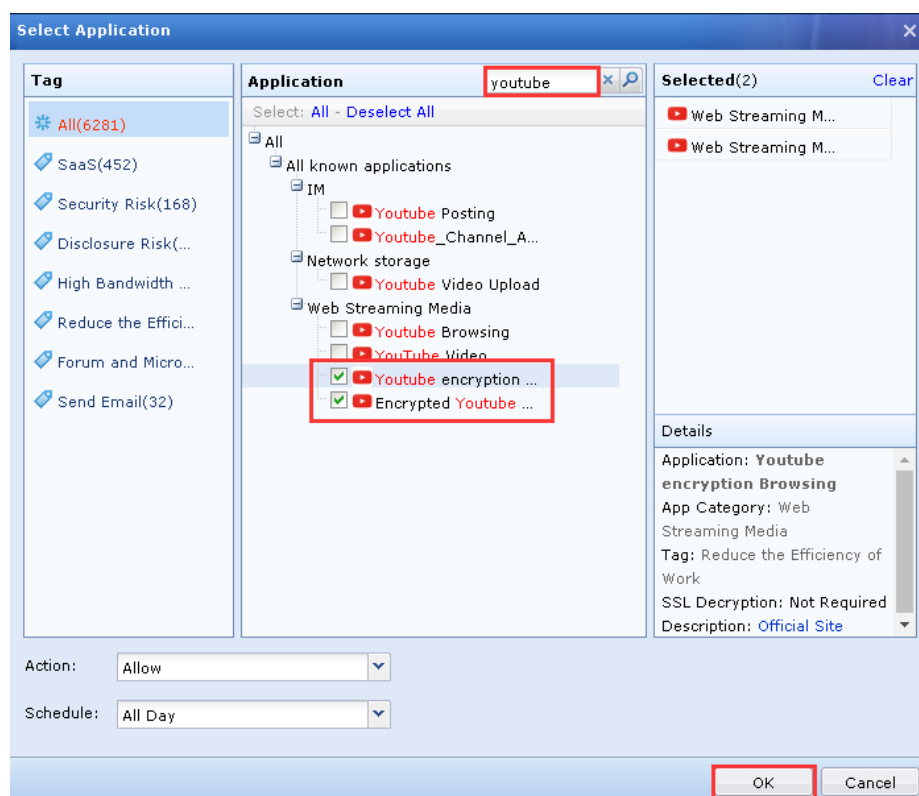
Application

+ Add | X Delete | → Allow | ⊗ Reject | ↑ Move Up | ↓ Move Down | Report Unidentified Application

No.	Application	Schedule	Action	Delete
1	Web Streaming Media/YouTube Video, Web Streaming M...	All Day	→ Allow	X
2	Web Streaming Media/All	All Day	⊗ Reject	X

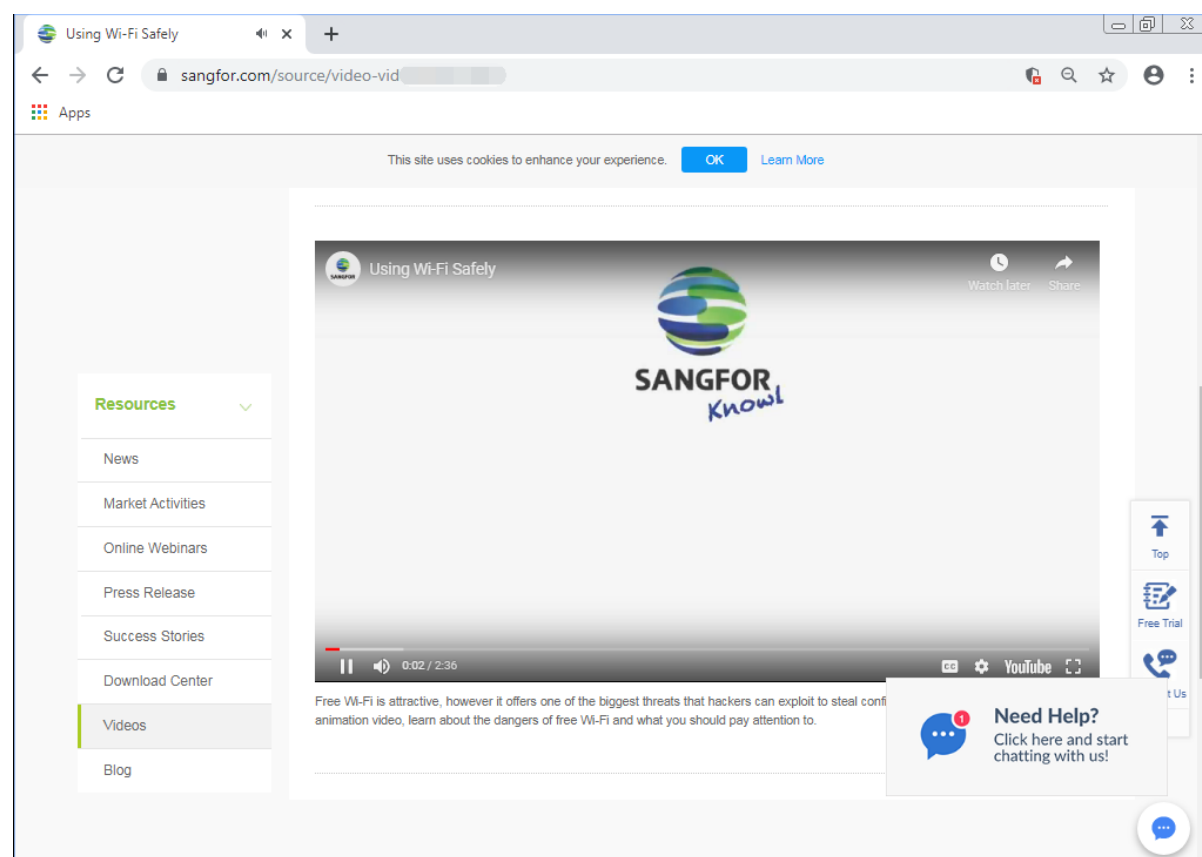
Commit | Cancel

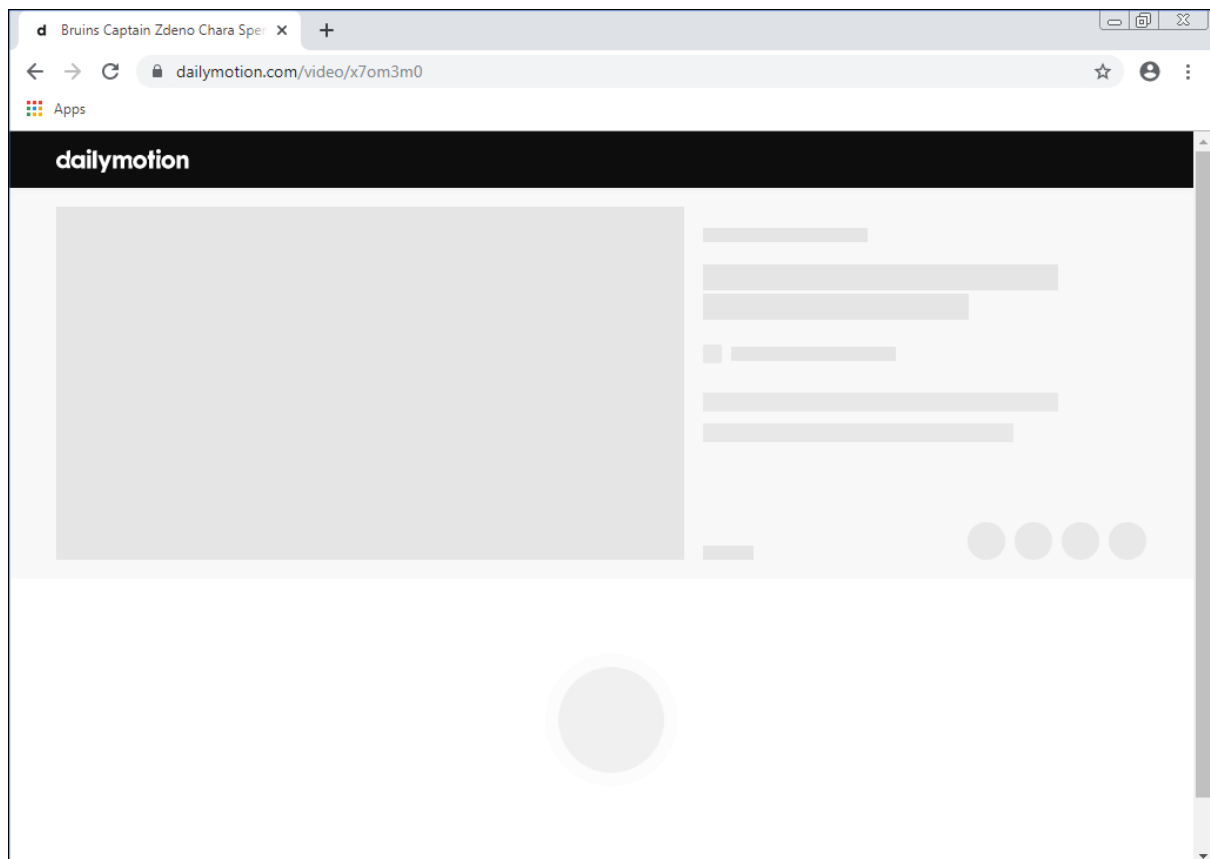
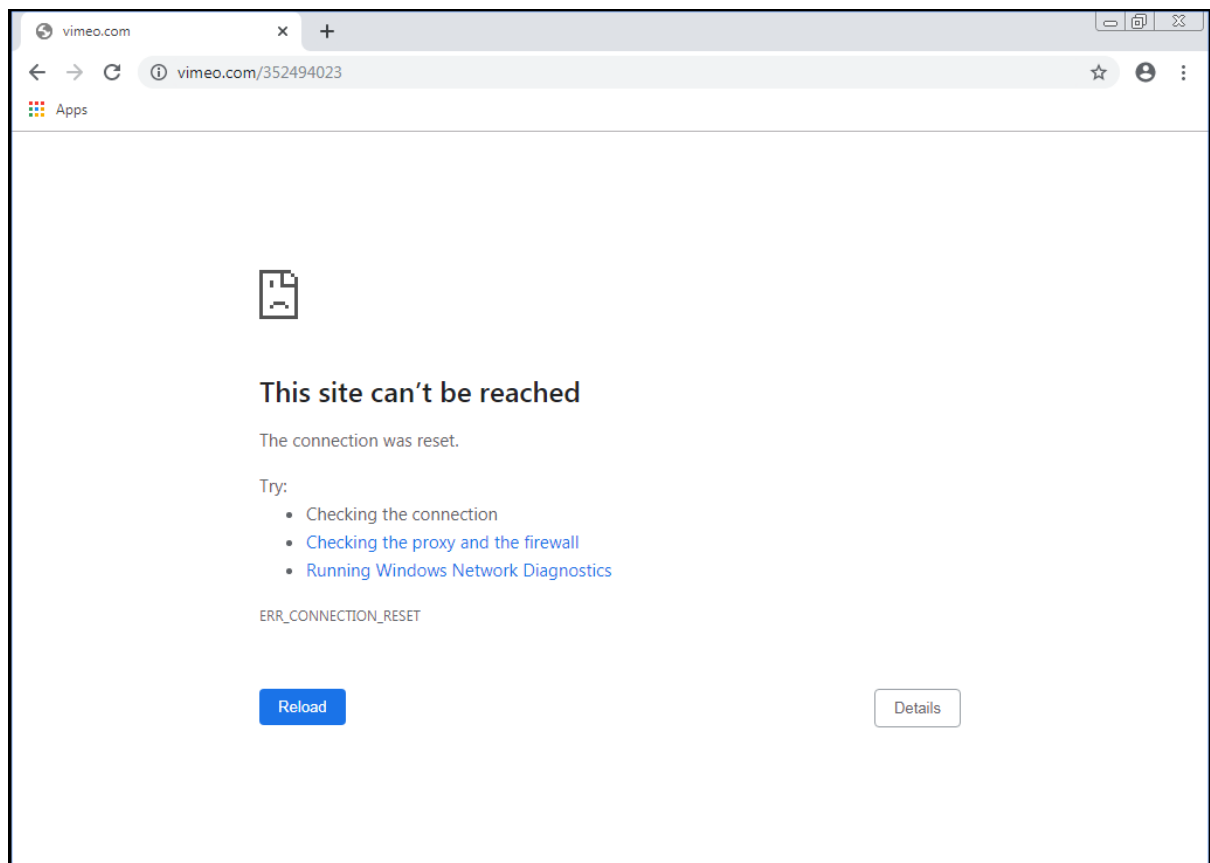
While select a **[Application]**, you may use the search bar to look for the application, for example, with insert the keyword "Youtube", you able to see the related application **[Youtube encryption browsing]** and **[Encrypted Youtube Video]**, click on the application **[Youtube encryption Browsing]** you able to see the **[Application Details]** at bottom right corner, the details include the application name, application category, tag, description and the official website.



3 Testing Result

PC is able to get watch on the video at Sangfor.com, but other web video is not allowed to access or play, as the diagram below.





4 Precautions

1. If the database cannot be updated, please check on:

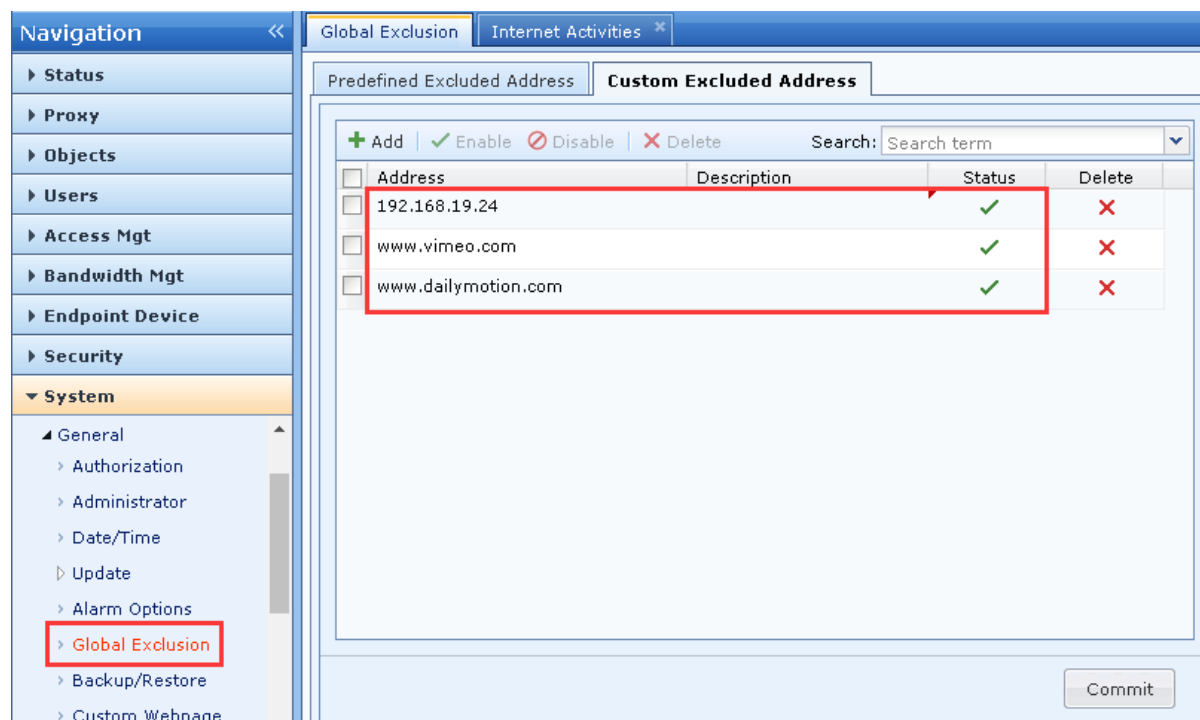
Please ensure that the license is within the validity period .

Please ensure that the device is able to visit website and resolve the domain name normally, since database update is connected to the update server with port 80 to perform updating.

By using the web console at **[System] – [Diagnostics] – [Web Console]**, telnet the domain name with port number, for example : telnet www.baidu.com 80. If the result return “connect OK”, means that the device is able to access to internet and resolve domain name correctly. If the connection fails, please check on the devices DNS configuration and whether the configuration of the upper proxy devices is acting as a proxy for IAM device to access the Internet.

Please ensure that the communicate between IAM and update server is successful. You able to test the update server connectivity at **[System] – [General] – [Update] – [Database Update] – [Update server]**. You can test with different server to ensure that the communication is normal, if the connection is normal, try to use different server to update the database.

2. The Policies only will take effect on the user after user authenticate by IAM. If user able to access internet without going through the device, or the user IP address, Vimeo and Dailymotion domain name has added in Global Exclusion, it will not take effect by the Policies.



3. The policies matching rules is from top to bottom, once it match a policy, it will not continue to match the following policies.

For example, the diagram below shows the user has applied with two policies. The first policy is video allowed, and second policy is video blocking. As we can see the first policy on top of the second policy, video browsing is allowed. What we need to block the video browsing is to push the second policy to the top, then it will block video browsing follow by allow to watch video.

Edit User [X]

☒ Enabled


Username:

Description:

Alias:

Mobile Number:

Email Address:

Group: 

User Attribute Policies Advanced

+ Add - Delete View Resultant Set

<input type="checkbox"/>	No.	Name	Applicable Users	Applicabl...	Endpoint ...
Access Control (2)					
<input type="checkbox"/>	1	video allowed	All users	All	All
<input type="checkbox"/>	2	video blocking	All users	All	All
Audit Policy (1)					
<input type="checkbox"/>	1	test	All users	All	All

Commit Cancel



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