

IAM

Best Practices for Scenarios_Audit Policy

Version 12.0.42



Change Log

Date	Change Description
July 27, 2020	Version 12.0.42 document release.
May 17, 2021	Version 12.0.42 document update.

CONTENT

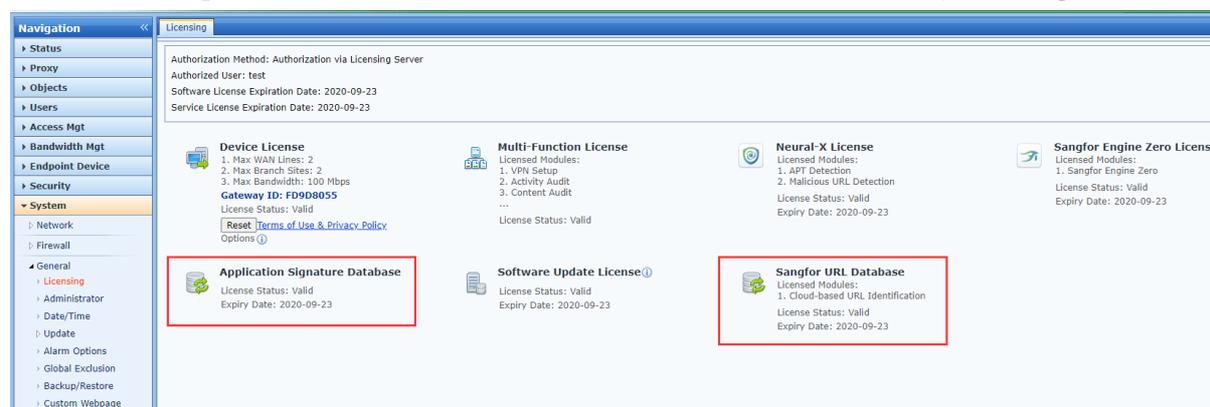
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Chapter 1 Scenario

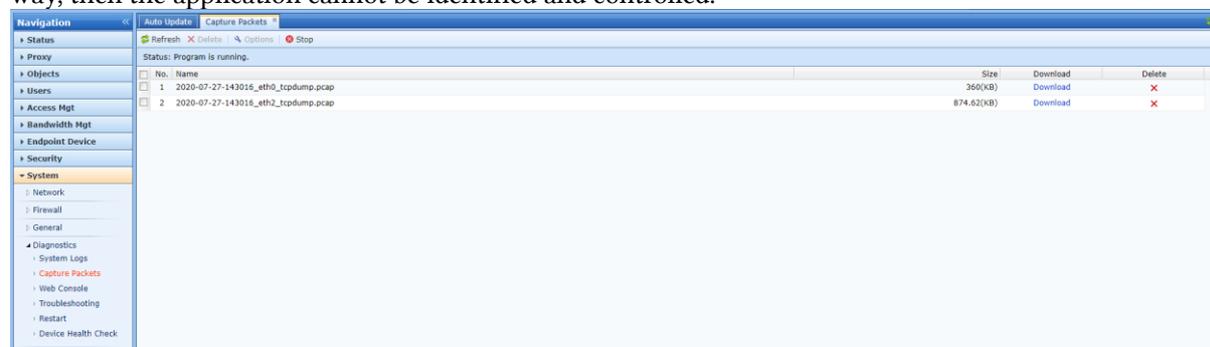
A university hopes to audit students’ online behavior, including the websites they visit and the applications they use. In addition, they need to analyze the ranking of the total traffic and duration of the students’ access to various applications.

Chapter 2 Network Environment Checking

1. Check the authorization and database version to ensure that the rule base has been updated to the latest date. The application control policy for processing data packets relies on the dataabse. If the database is not updated to the latest version, the identification of some traffic may be wrong.



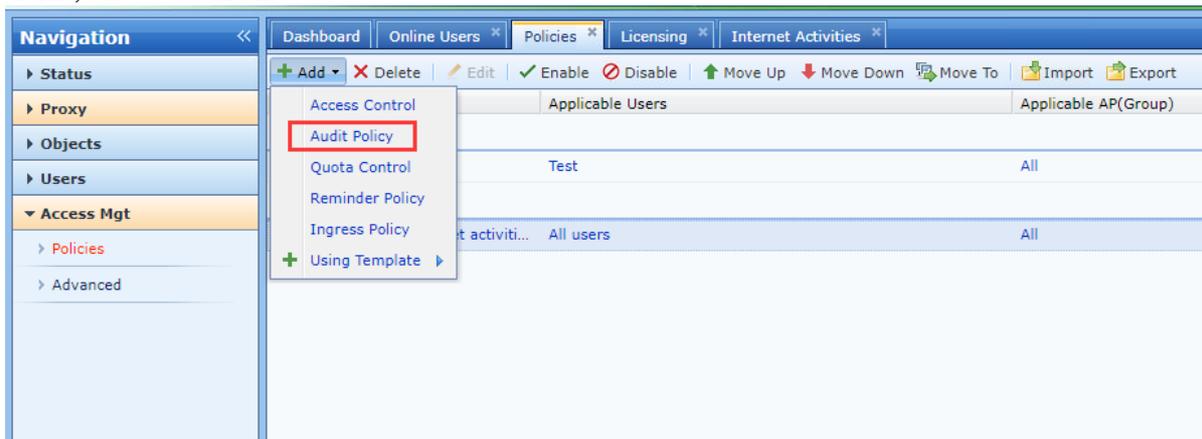
2. Ensure that network traffic passes through the IAM device in both directions. If the traffic is only one-way, then the application cannot be identified and controlled.



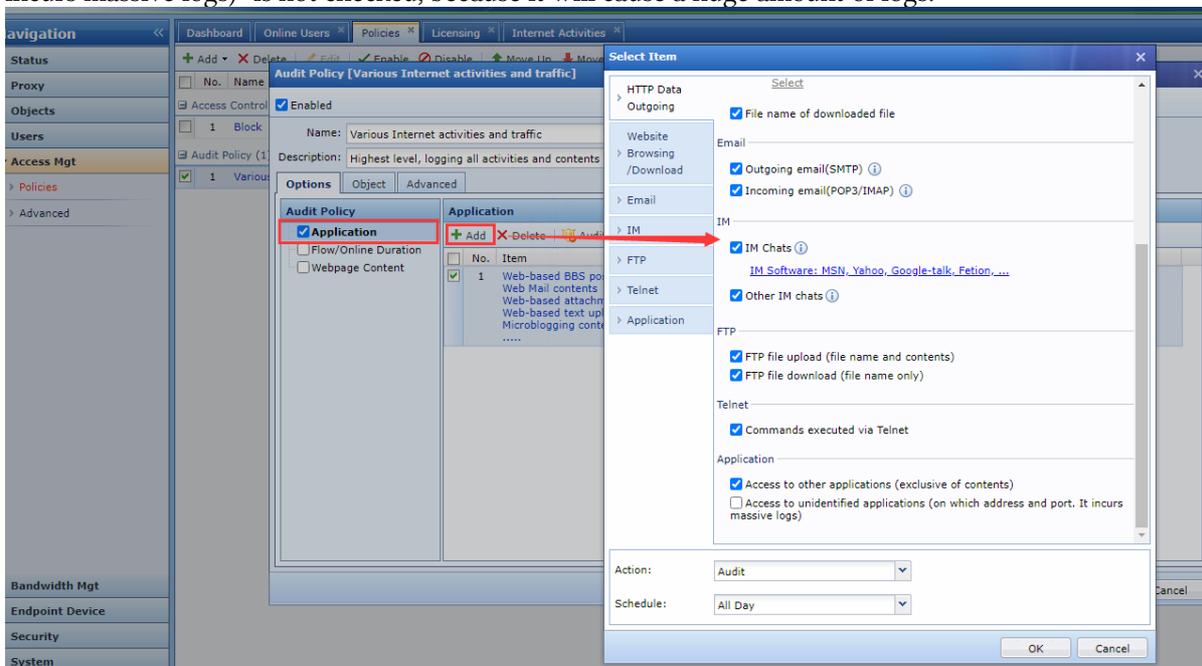
No.	Time	Source	Destination	Protocol	Length	Bytes in Flight	Info
8	2020/209 14:30:40.043783	192.168.1.3	216.58.196.36	TCP	66		50121 → 443 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
9	2020/209 14:30:40.043794	216.58.196.36	192.168.1.3	TCP	66		443 → 50121 [SYN, ACK] Seq=0 Ack=1 Win=64240 Len=0 MSS=1460 SACK_PERM=1 WS=8192
10	2020/209 14:30:40.044082	192.168.1.3	216.58.196.36	TCP	54		50121 → 443 [ACK] Seq=1 Ack=1 Win=2102272 Len=0
11	2020/209 14:30:40.044883	192.168.1.3	216.58.196.36	TLSv1.2	571	517	Client Hello
12	2020/209 14:30:40.044806	216.58.196.36	192.168.1.3	TCP	54		443 → 50121 [ACK] Seq=1 Ack=518 Win=65536 Len=0
13	2020/209 14:30:40.118146	216.58.196.36	192.168.1.3	TLSv1.2	1018	956	Server Hello, Certificate, Server Key Exchange, Server Hello Done
14	2020/209 14:30:40.120615	192.168.1.3	216.58.196.36	TLSv1.2	61		7 Alert (Level: Fatal, Description: Certificate Unknown)
15	2020/209 14:30:40.120619	216.58.196.36	192.168.1.3	TCP	54		443 → 50121 [ACK] Seq=957 Ack=525 Win=65536 Len=0
16	2020/209 14:30:40.120980	192.168.1.3	216.58.196.36	TCP	54		50121 → 443 [FIN, ACK] Seq=525 Ack=957 Win=2101248 Len=0
17	2020/209 14:30:40.120982	216.58.196.36	192.168.1.3	TCP	54		443 → 50121 [FIN, ACK] Seq=957 Ack=526 Win=65536 Len=0
18	2020/209 14:30:40.121832	192.168.1.3	216.58.196.36	TCP	54		50121 → 443 [ACK] Seq=526 Ack=958 Win=2101248 Len=0

Chapter 3 Configuration

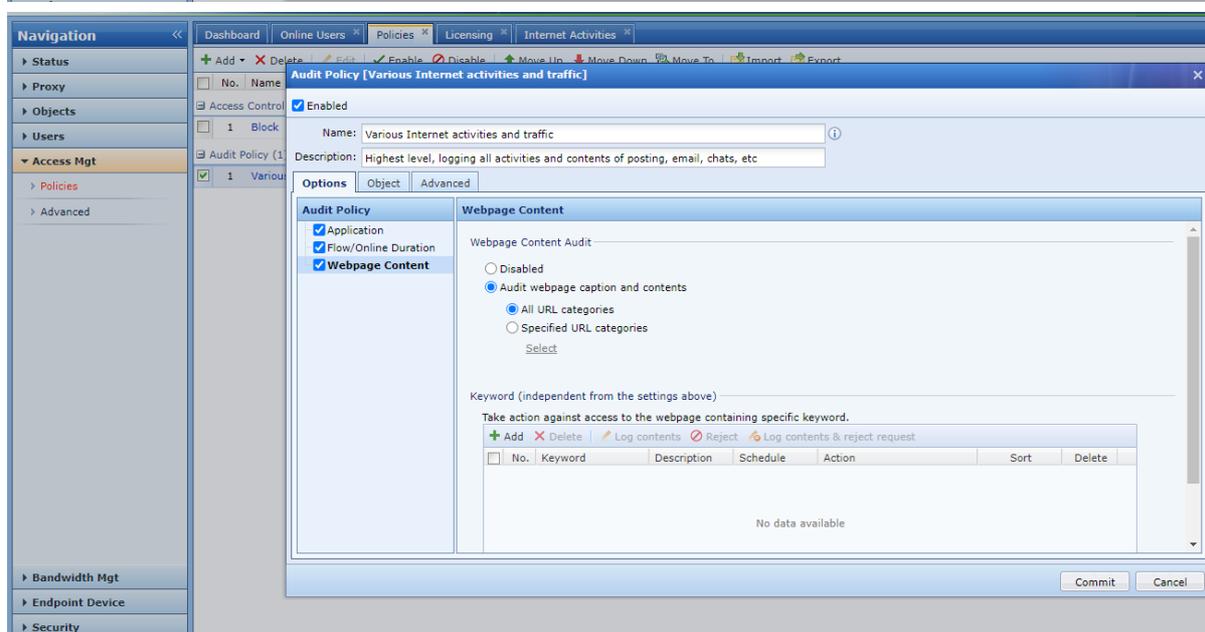
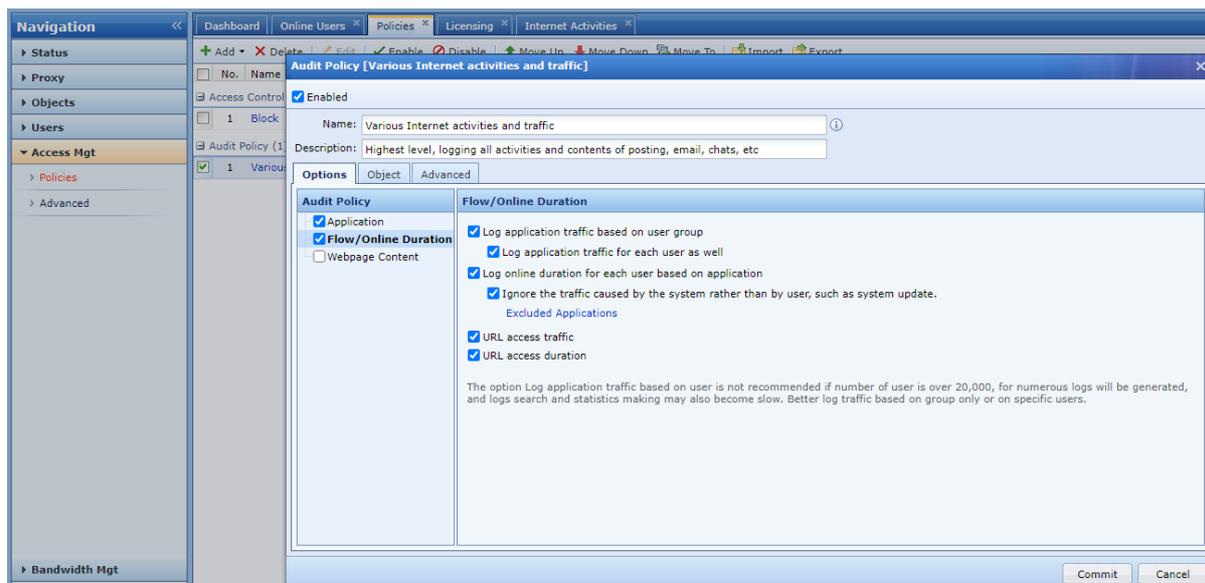
1. Configure the policy and check the content that needs to be audited, such as application behavior, traffic, and web content.



When auditing application behavior, it should be noted that you usually need to check "Access to other applications (exclusive of contents)", because there are many categories of applications, and the options above this option are just a few commonly used categories, and most of the rule bases Applications are included in this option. Usually, "Access to unidentified applications (on which address and port. It incurs massive logs)" is not checked, because it will cause a huge amount of logs.

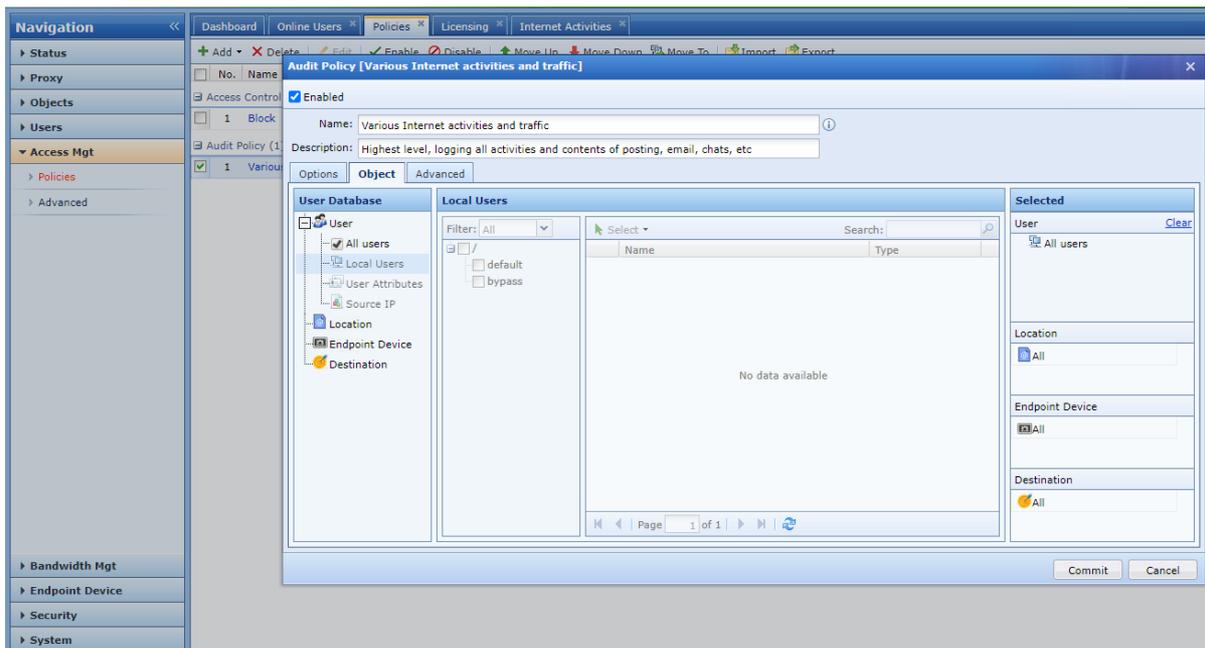


Audit Policy

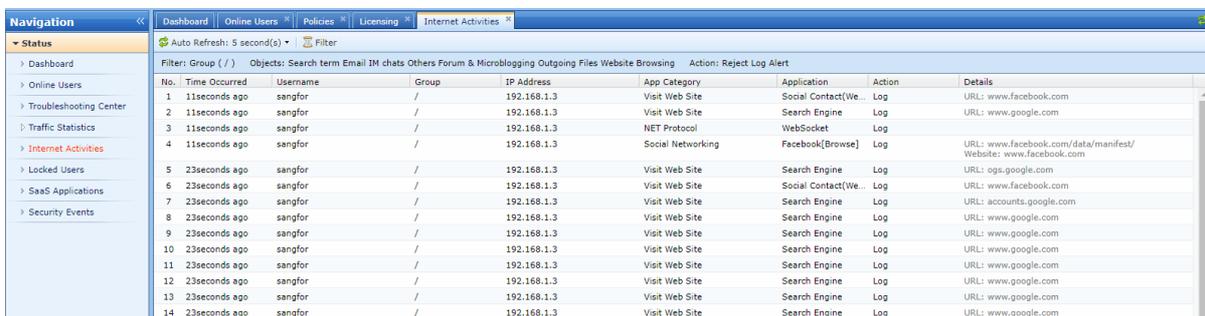
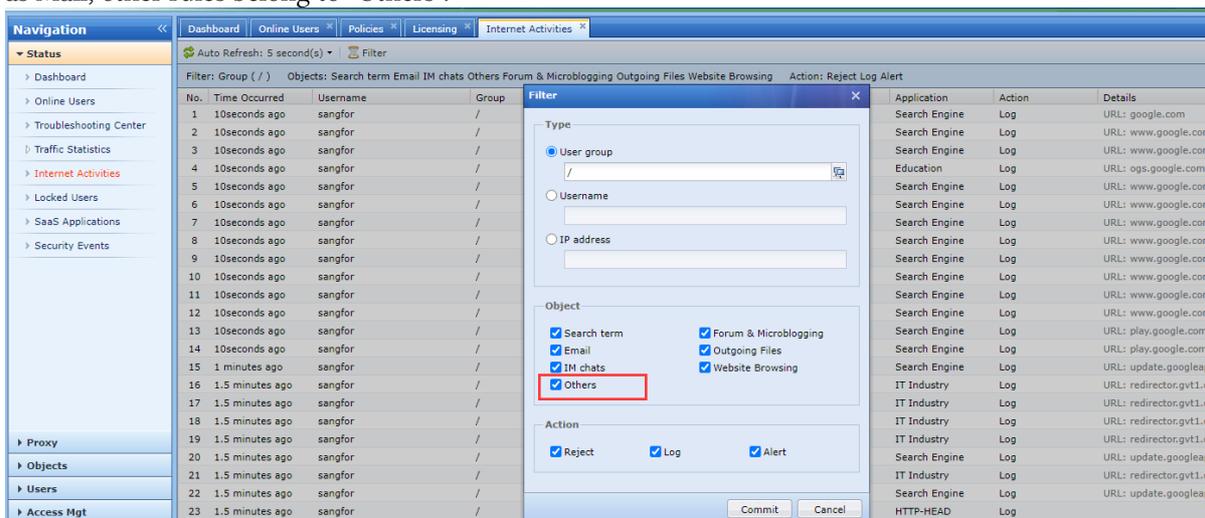


2. Select the target for the policy and determine which users' behavior and traffic should be audited.

Audit Policy

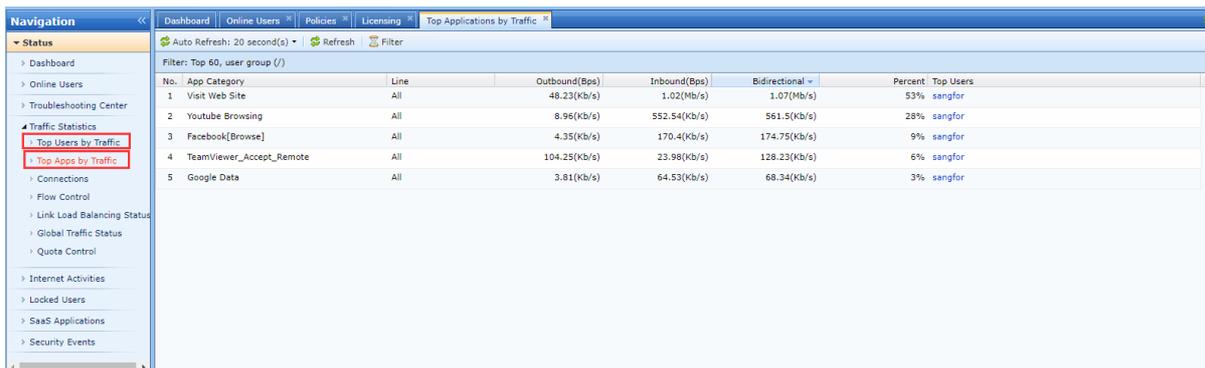


3. View user behavior in "Internet Activities". If you want to filter out user behavior as much as possible, you need to check "Others" in the filter, because in addition to other common application categories such as Mail, other rules belong to "Others".

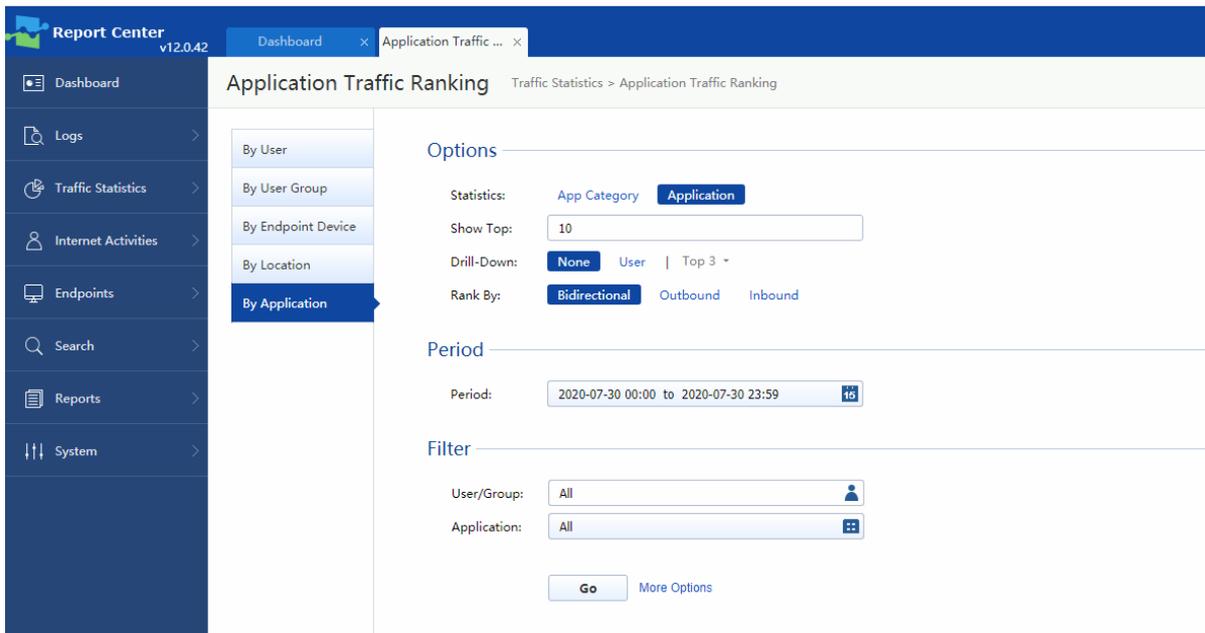
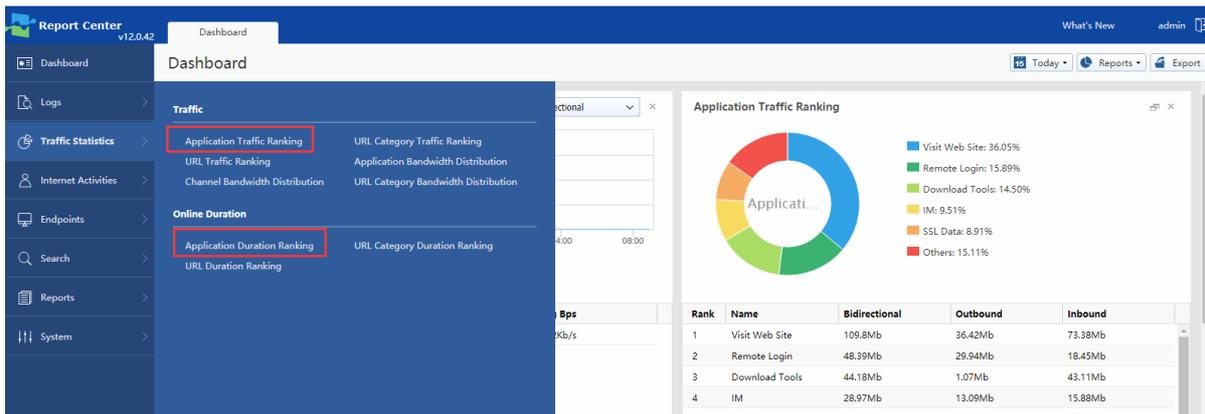
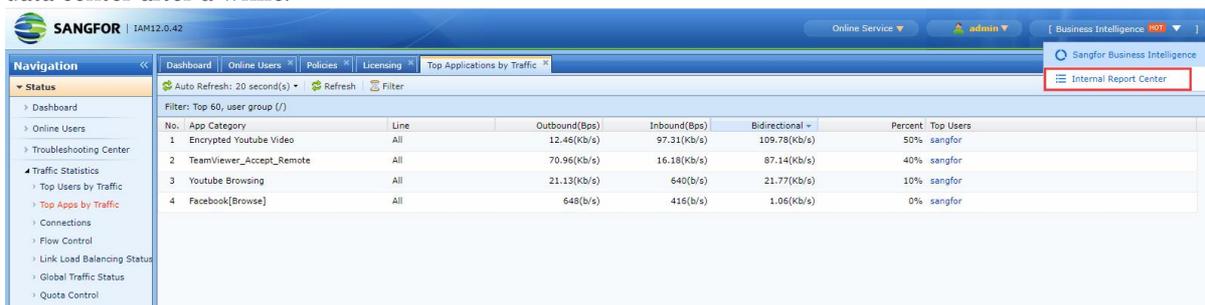


4. You can query the user's traffic ranking data.

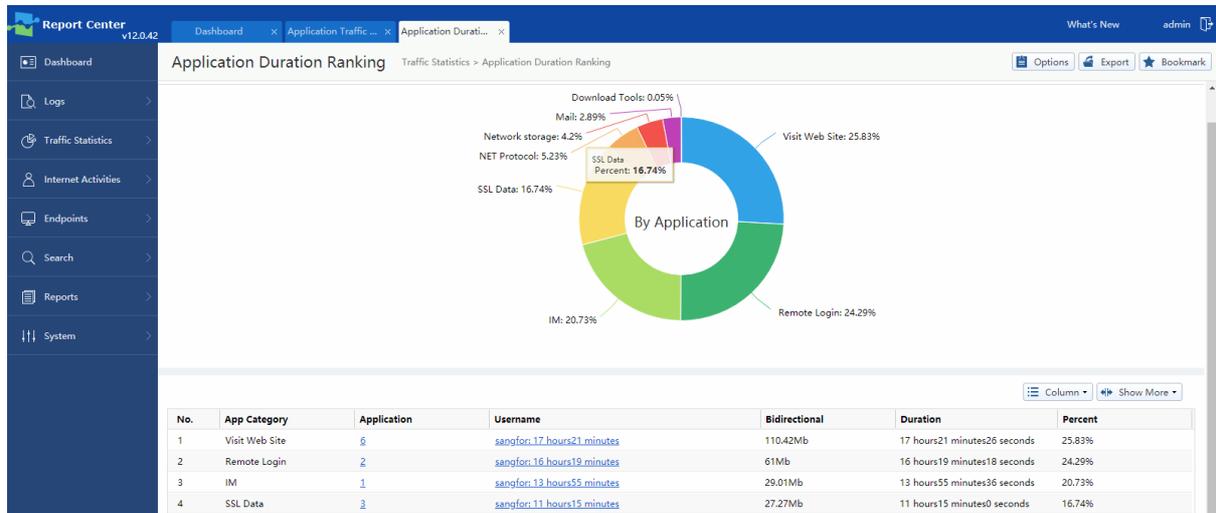
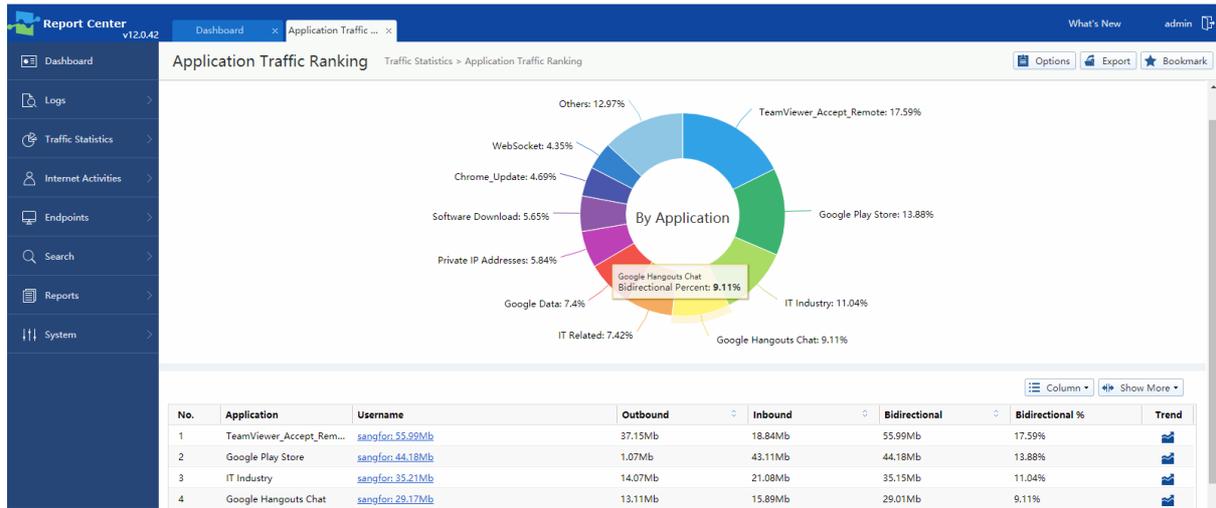
Audit Policy



5. You can log in to the log center to view user network behavior and traffic ranking information. Generally, only historical log information can be queried. The recently accessed log can be queried in the data center after a while.



Audit Policy





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