

NGAF

AD Domain SSO Configuration Guide

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Change Log

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Chapter 1 Abbreviations and conventions

AD domain: Windows Active Directory

Integrated Windows authentications: A scheme for single sign-on referred to as IWA

Domain Monitoring Single Sign-On: One option for single sign-on is the old version of the ADSSO solution.

Listening mode Single sing-on: A scheme for single sing-on, listening to the data of the computer login domain and obtaining the information of the login domain.

Gpupdate.EXE /FORCE: Refresh the group policy command. After changing the group policy, you need to execute this command to make the changes take effect immediately.

Rsop.msc: Execute on the PC that is added to the domain. You can use this command to check whether the PC obtains the domain group policy.

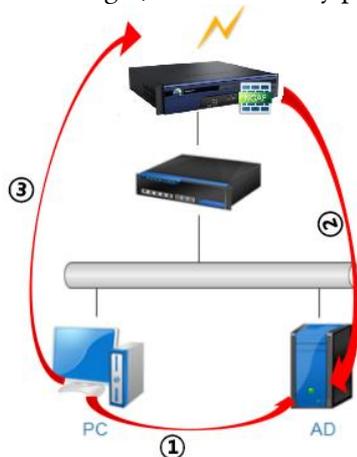
Gpreport.exe: Report on the PC joined to the domain. You can use this command to check whether the PC obtains the group policy of the domain.

Chapter 2 Demand background

1. AD domain single sign-on is applicable to the intranet of the customer. The intranet has been configured to manage the intranet users. After the AC is deployed, the AC and the AD domain are required to implement the smooth authentication. Authentication online, no need to manually pass AC certification, transparent to end users)
2. I want to use the real name of the domain user to access the Internet, and the real name records the user's online log.
3. The client does not want to use script mode to single sign-on, because the script mode needs to configure logon.exe and logoff.exe on the domain, which does not comply with the company's security management specifications.
4. In order to improve the success rate of single sign-on, in the actual scenario, it is necessary to integrate Windows authentication, domain monitoring single sign-on and monitoring mode. The three single sign-on solutions are enabled together. It is not recommended to enable any one of them separately. Introduce the usage of these three programs.

Chapter 3 Application method

Domain monitoring single sign-on, that is, the old version of ADSSO, the NGAF automatically detects the event log of the user's login domain on the AD domain (event ID is 672, 540, 4624). After detecting the log of the user login, it automatically passes the NGAF's authentication.

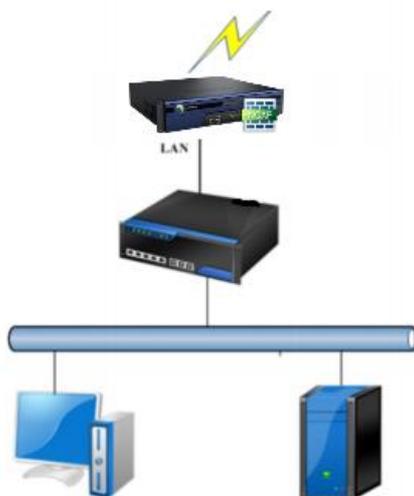


1. PC logs into domain.
2. Agent communicate with AD server to obtain domain online users' information.
3. PC is authenticated and able to access Internet.

Chapter 4 Testing Environment

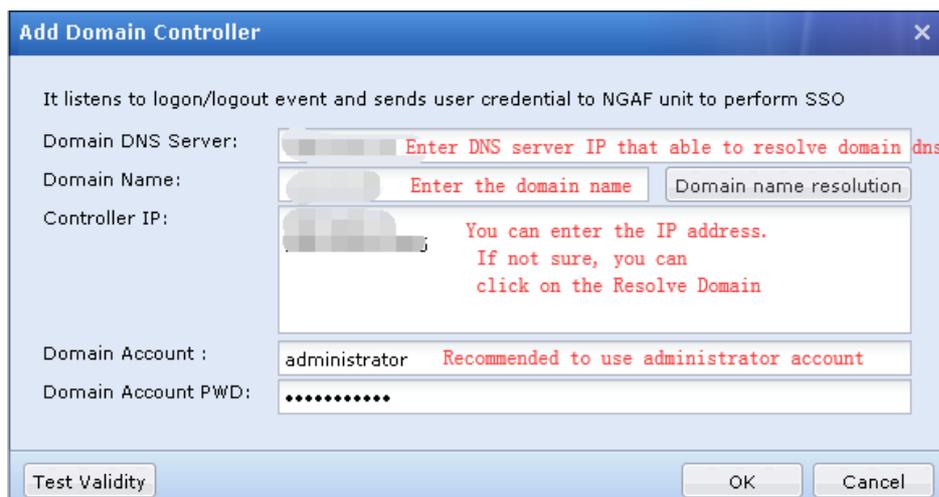
4.1 Testing topology

A common test environment, device routing or bridge deployment, and AD domain deployment on the intranet switch, as shown in the following figure. This article mainly introduces the test method of script single point login in this environment.



AD SSO single sign on configuration.

The screenshot shows the configuration interface for AD SSO single sign on. The left sidebar contains a navigation menu with categories like Status, Network, Objects, Policies, System, Authentication System, Local Users, External Authentication, and Security Solution. The 'Authentication System' category is expanded, and the 'Options' sub-item is selected. The main content area displays the 'SSO Options' configuration page. The 'Client-Side Domain SSO' tab is active, and the 'Enable Client-Side Domain SSO' checkbox is checked. Below this, there are options for 'Obtain login profile by executing logon script through domain' and 'Domain SSO'. The 'Domain SSO' checkbox is also checked, and there is a table for managing domain SSO entries. The table has columns for 'Domain Contr...', 'Domain Name', 'Last Obtained', 'Recent Users', and 'Status'. The table is currently empty, showing 'No data available'. At the bottom, there are fields for 'Computer Name', 'Domain Name', 'DNS Server', and 'Domain Account', along with an 'OK' button.



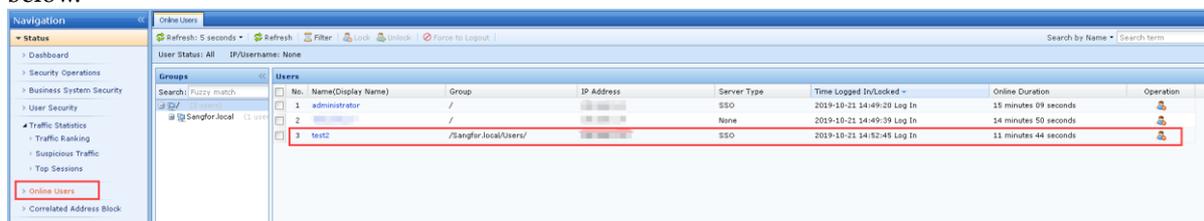
Note: Figure above recommend to use the administrator account, if is using windows 2008 and above, you also can use non-administrator account, but you need to assign wmi-permission.

If non-administrator account, please refer to attachment A.

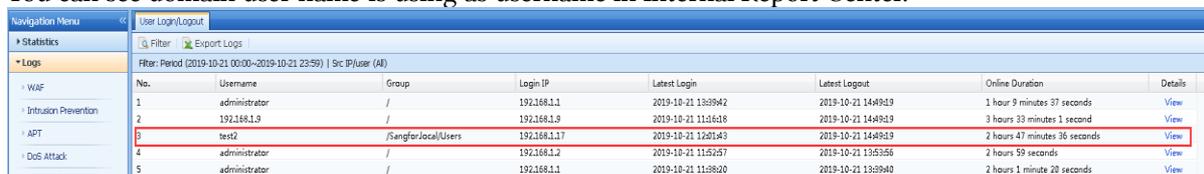
Chapter 5 Testing Result

Result of single sign on as below.

1. User logon PC and login into domain, it will automatic pass the NGAF's authentication, it no need open the web browser to authenticate again, in Online users list, you can view the user is using SSO online, as below.

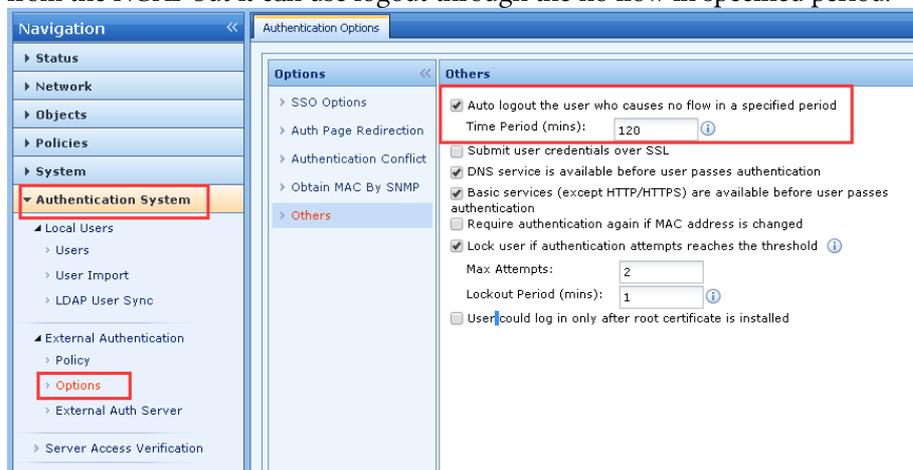


2. You can see domain user name is using as username in Internal Report Center.

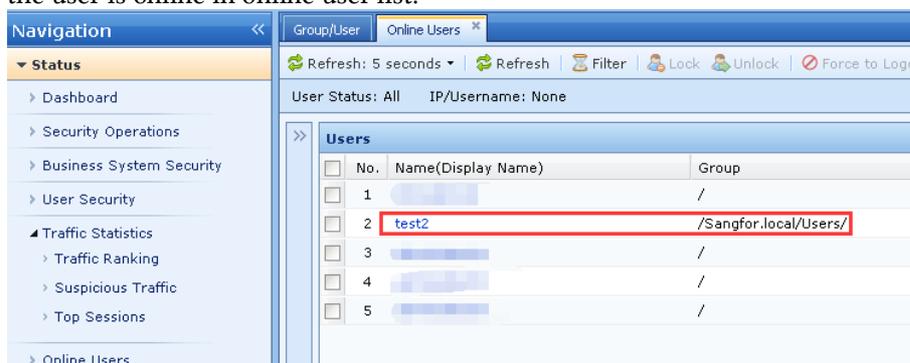


Chapter 6 Precaution

1. Domain SSO, IWA and listening mode not support domain SSO sign off from the domain and offline from the NGAF but it can use logout through the no flow in specified period.



2. Domain SSO, endpoint device must pass through NGAF then only can go online (can view in online user list), the program will check for every 10 minutes, if does not have traffic pass through, it will not show the user is online in online user list.

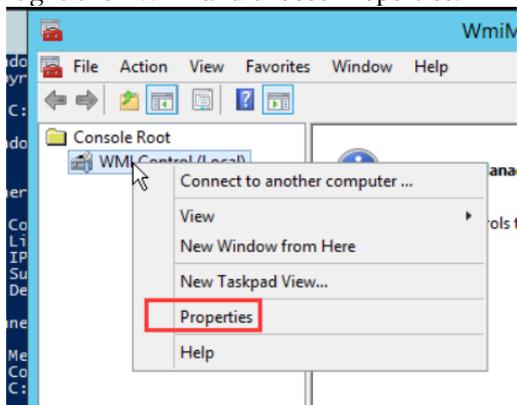


3. If the AD is at the WAN side, endpoint PC unable login to domain, it required to put the AD domain server's IP address to the NGAF's Global Exclude list to do open auth and allow the AD communication.

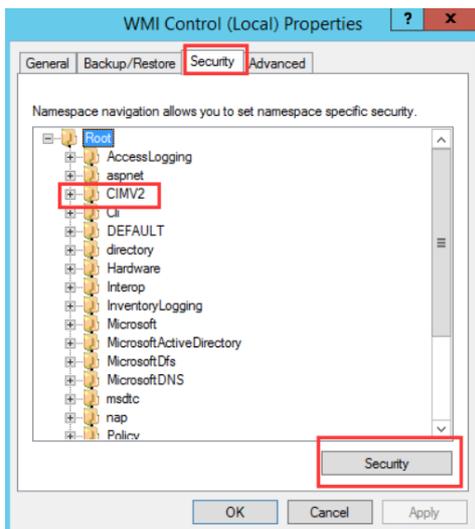
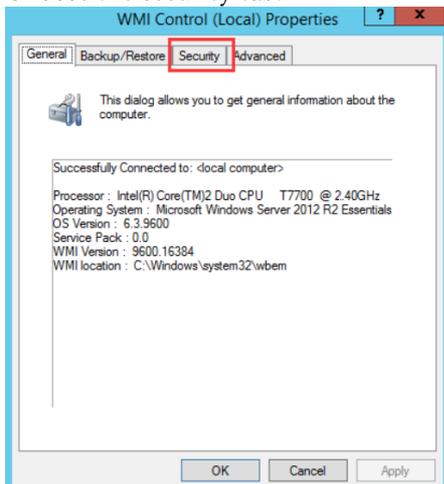
Chapter 7 Attachment A

Windows server 2008 AD domain non-administrator account configuration. If it is windows server 2008 and above domain cotroller, it can use the non-administrator account, but it required to assign WMI permission, configuration guide as below:

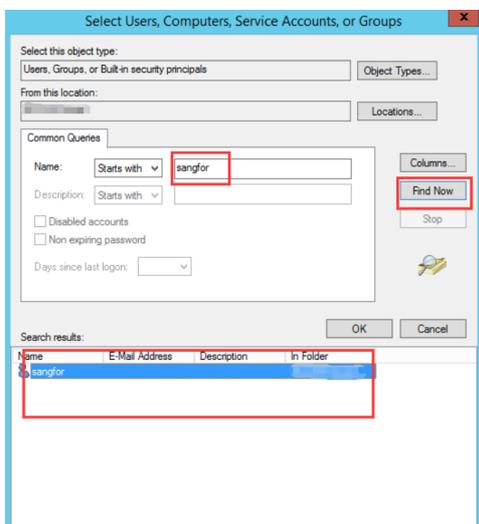
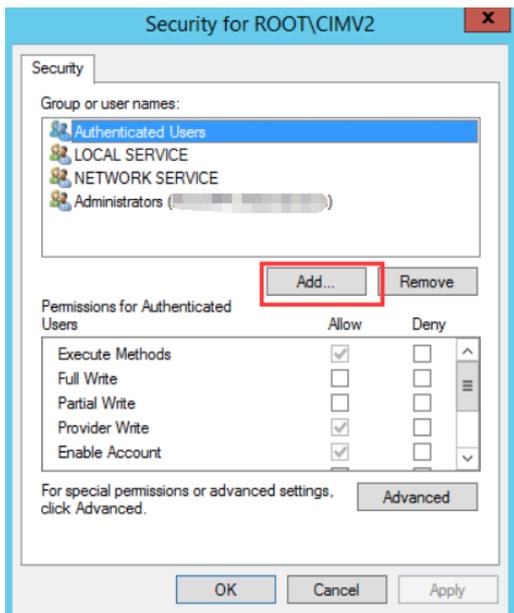
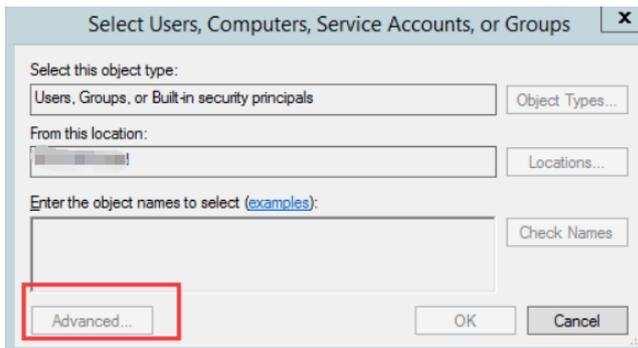
1. Go to start -> run and type wmingmt
2. Right click WMI and choose Properties.



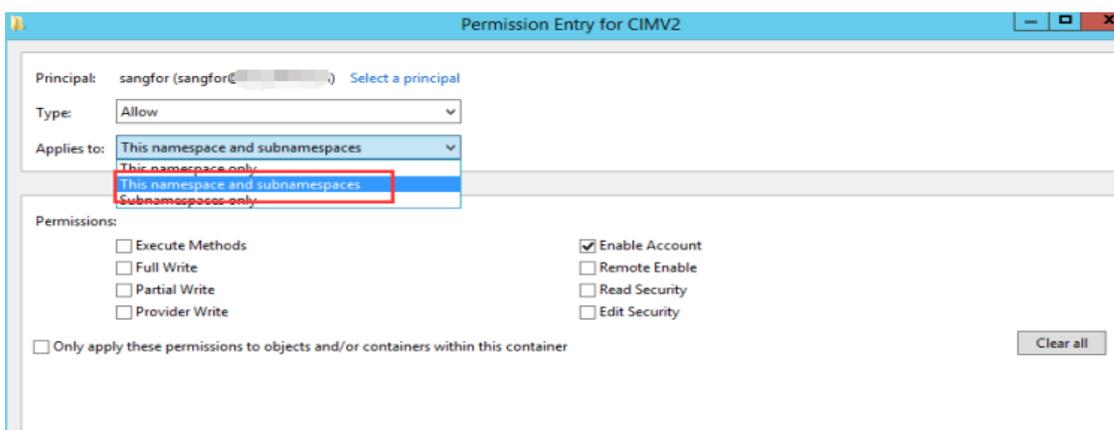
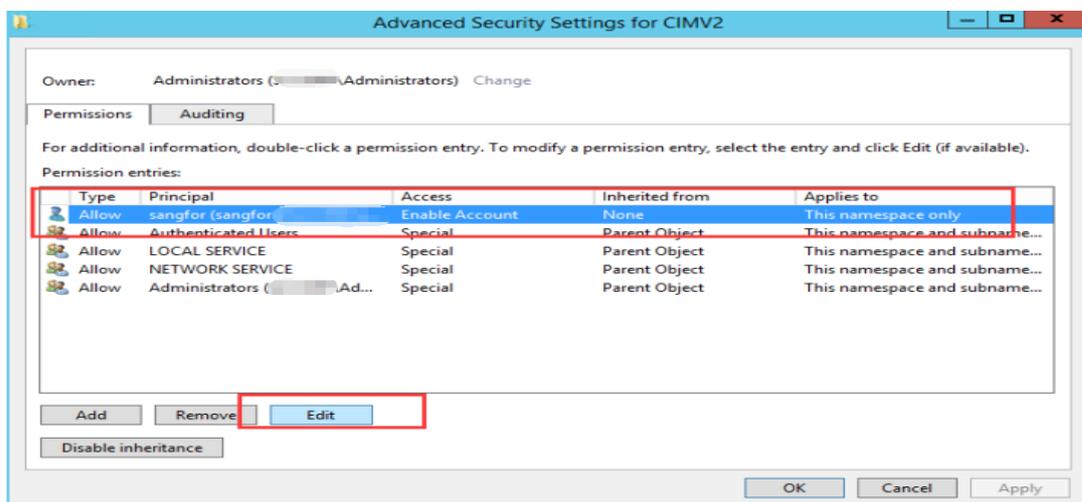
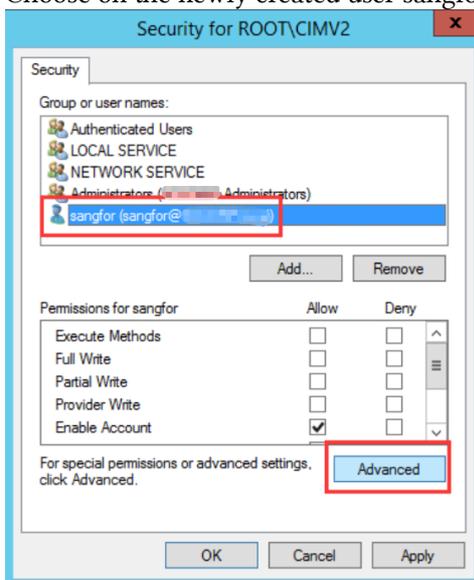
3. Choose the security tab.



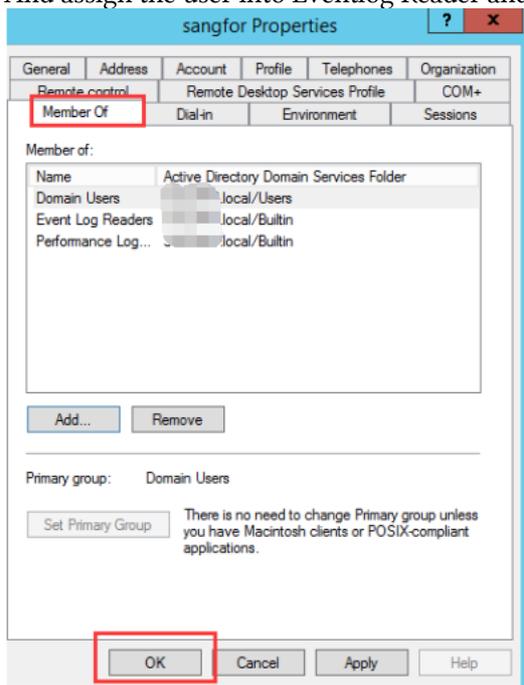
4. Click on add.



5. Choose on the newly created user sangfor.



6. And assign the user into Eventlog Reader and Performance log user group as below :



7. So the windows 2008 AD domain non-administrator already configured, domain SSO can use this account.



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