

## 1.1 Logging and Alerting

Logging is only created in the event logs. A custom task must be created to trigger the event log information and log it in a log file.

The script can be found in D:\logging\ReadEventlogs.vbs on every ADFS server.

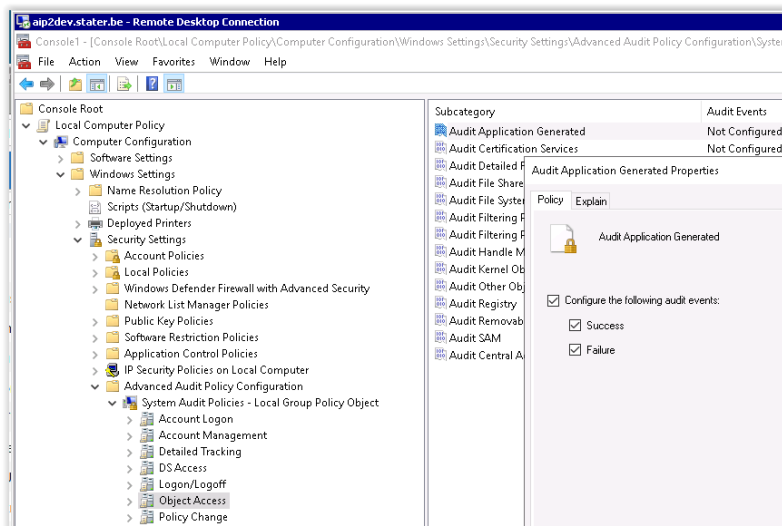
### 1.1.1 Prerequisites

The 2019 server is by default allowing to save credentials. Otherwise a scheduled task will not work.

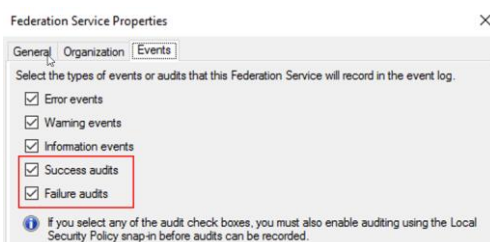
A service account must be created with limited rights: [\\_sp\\_p\(q\)\\_AdfsLogging@xxx.xx](#)

The service account on the ADFS server must have rights to:

- Read Event logs: Add user to Local group “Event log readers”.
- Start a Scheduled Task: Add the user to the local group “Performance logs users”.
- Modify rights on the folder D:\logging



Enable Object Access “Success” and “Failure” in the local group policy (restart server)



Enable “Success audits” and “Failure audits” in the properties of the ADFS service.

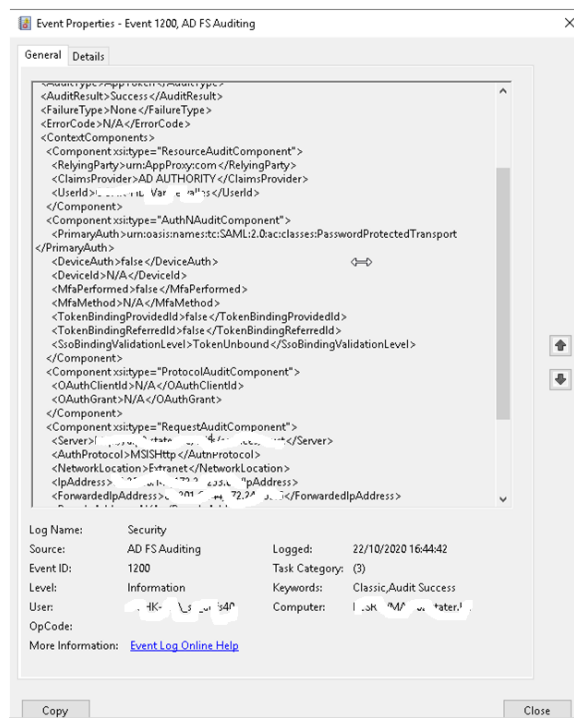
<https://docs.microsoft.com/en-us/windows-server/identity/ad-fs/troubleshooting/ad-fs-tshoot-logging>

The table below describes the basic types of events.

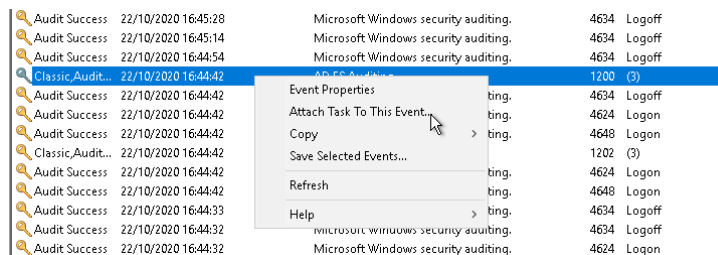
Event Type	Event ID	Description
Fresh Credential Validation Success	1202	A request where fresh credentials are validated successfully by the Federation Service. This includes WS-Trust, WS-Federation, SAML-P (first leg to generate SSO) and OAuth Authorize Endpoints.
Fresh Credential Validation Error	1203	A request where fresh credential validation failed on the Federation Service. This includes WS-Trust, WS-Fed, SAML-P (first leg to generate SSO) and OAuth Authorize Endpoints.
Application Token Success	1200	A request where a security token is issued successfully by the Federation Service. For WS-Federation, SAML-P this is logged when the request is processed with the SSO artifact, (such as the SSO cookie).
Application Token Failure	1201	A request where security token issuance failed on the Federation Service. For WS-Federation, SAML-P this is logged when the request was processed with the SSO artifact, (such as the SSO cookie).
Password Change Request Success	1204	A transaction where the password change request was successfully processed by the Federation Service.
Password Change Request Error	1205	A transaction where the password change request failed to be processed by the Federation Service.
Sign Out Success	1206	Describes a successful sign-out request.
Sign Out Failure	1207	Describes a failed sign-out request.

### 1.1.2 Eventlog Trigger

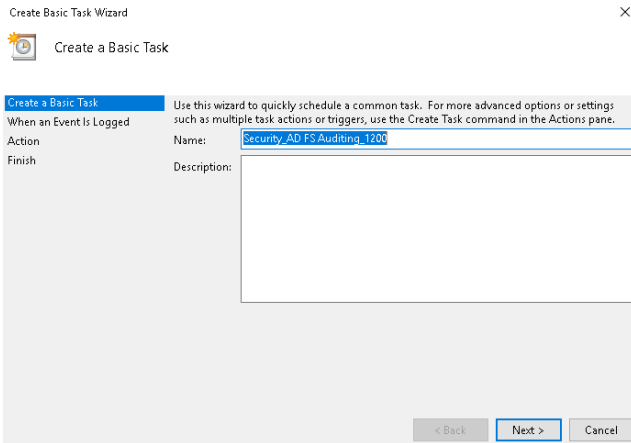
EventID 1200 shows which user is logged on for a specific application, from which WAP server, and which IP address, internal or external.



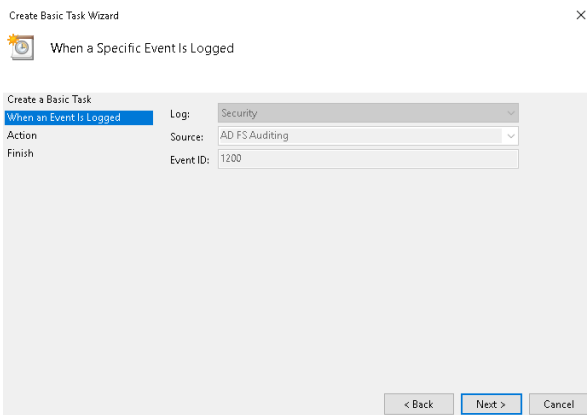
This information must be stored in a log file.



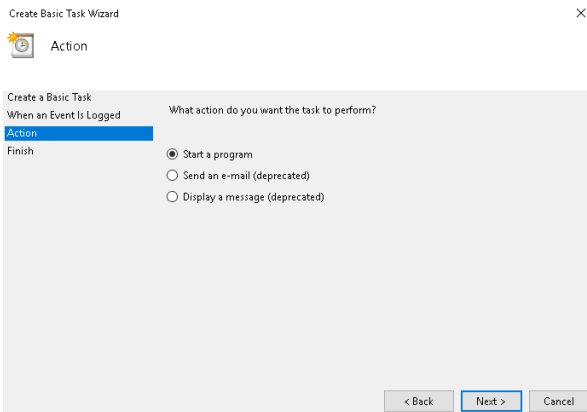
Right click on EventID 1200 / Attach Task to This Event...



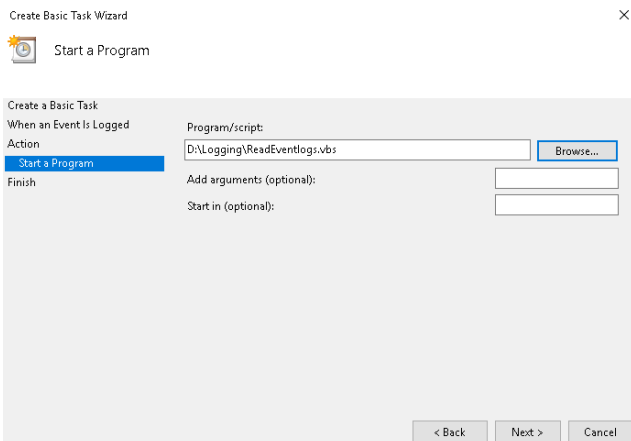
Leave the default, click on Next



/Next



/Next



Program/script:

Add arguments (optional):

Start in (optional):

Browse to D:\logging\ReadEventlogs.vbs. Add arguments (optional) = 1200 (number of EventID) /Next

Create Basic Task Wizard ×

Summary

Create a Basic Task

When an Event Is Logged: Name:

Action: Description:

Start a Program

Finish

Trigger: On an event; On event - Log: Security, Source: AD FS Auditing, Event ID: 1200


Action: Start a program; D:\Logging\ReadEventlogs.vbs

Open the Properties dialog for this task when I click Finish  
 When you click Finish, the new task will be created and added to your Windows schedule.

< Back  Cancel

Click on 'Finish'

Event Viewer ×

 Event Viewer created the Scheduled Task Security\_AD FS Auditing\_1200. To modify the task, open Task Scheduler.

Click on 'OK'

### Open Task Scheduler

Security\_AD FS Auditing\_1200 Properties (Local Computer) ×

General Triggers Actions Conditions Settings History

Specify additional settings that affect the behavior of the task.

Allow task to be run on demand

Run task as soon as possible after a scheduled start is missed

If the task fails, restart every:  minute

Attempt to restart up to:  times

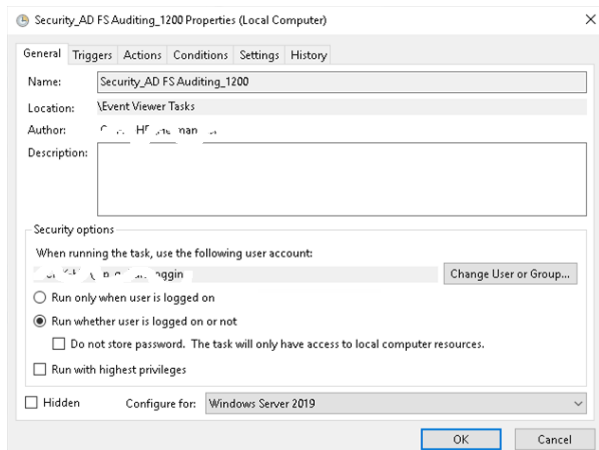
Stop the task if it runs longer than:  hour

If the running task does not end when requested, force it to stop

If the task is not scheduled to run again, delete it after:  days

If the task is already running, then the following rule applies:

Fill in the above values



Run whether user is logged on or not  
Configure for: Windows Server 2019  
Service account \_sp\_AdfsLog@xxx.xx

Now to this for EventID 1201, 1203, 1206 and 1210 (PS.: 1210 is a locked user)  
For EventID 364 you need to select a specific VBS file: ReadEventlog364.vbs  
EventID can contain a lot of information. Currently 2 specific 364 events are implemented in the script.