z/OS 2.4 Education Assistant (IEA)

Solution Name: z/OSMF Lite and Security Assistant

Element(s)/Component(s): z/OSMF



Agenda

- Trademarks
- Session Objectives
- Overview
- Usage & Invocation
- Installation
- Session Summary
- Appendix

Trademarks

• See url http://www.ibm.com/legal/copytrade.shtml for a list of trademarks.

- Additional Trademarks:
 - None

Session Objectives

- An overview of z/OSMF configuration enhancements in V2R4
- z/OSMF Lite simplifies the first time configuration experience
 - It takes less than 90 minutes to configure z/OSMF Nucleus for the first time configuration.
 - You can expand your z/OSMF configuration by adding more services on top of z/OSMF Nucleus. The overall configuration work can still be much less than what was required for z/OSMF V2R3 or V2R4.
 - Traditional z/OSMF configuration (configuring all z/OSMF Core services at one time) continues to be supported.
- Security Assistant can programmatically detect and present z/OSMF security status
 - Security Assistant supports all ESMs (IBM tests on RACF)
 - Security Admin can delegate security validation to system programmers

Overview

- Who (Audience)
 - z/OSMF installer
 - Security Administrator
- What (Solution)
 - IBM provides a new way to configure z/OSMF and review security configurations on V2R4.
- Wow (Benefit / Value, Need Addressed)
 - It takes less than 90 minutes to bring up the minimal z/OSMF configuration z/OSMF Nucleus.
 - It takes less than 5 minutes to validate and review z/OSMF security configuration results.

z/OSMF Lite Overview

Before z/OSMF Lite z/OSMF Core Services (Minimal configurations) Liberty Profile **Core Navigation** Online Help Notification **Notification settings** App linking Import Manager Links **FTP Servers Usage Statistics System Status** Workflow Editor **API Discovery Swagger REST Job API REST File API REST TSO API** Cloud Provisioning (Software Services) Workflows Console (UI and REST API)

z/OSMF Optional Services (Extension) Capacity Provisioning Configuration Assistant Incident Log ISPF Resource Monitoring Resource Management Software Management Sysplex Management Workload Management

After z/OSMF Lite z/OSMF Nucleus (Minimal configuration) Liberty Profile **Core Navigation** Online Help z/OSMF Core Services (Extension) Notification Notification settings App linking Import Manager Links **FTP Servers Usage Statistics** System Status Workflow Editor API Discovery Swagger **REST Job API REST File API REST TSO API** Cloud Provisioning (Software Services) Workflows Console (UI and REST API)

z/OSMF Optional Services (Extension)
Capacity Provisioning
Configuration Assistant
Incident Log
ISPF
Resource Monitoring
Resource Management
Software Management
Sysplex Management
Workload Management

z/OSMF Lite Configuration — New Install

z/OSMF Nucleus (Minimal configuration) Liberty Profile **Core Navigation** Online Help z/OSMF Core Services (Extension) Notification Notification settings App linking Import Manager Links **FTP Servers Usage Statistics** System Status Workflow Editor **API Discovery Swagger REST Job API REST File API REST TSO API** Cloud Provisioning (Software Services) Workflows Console (UI and REST API)

- You will not be asked to configure every service on the left
- You can free select any service you want to use, and configure what you need, which can reduce up to 70% of configuration work comparing with works required for a minimal configuration in previous release
- The legacy z/OSMF core configuration using IZUSEC job is still supported, if you want to enhance all the z/OSMF Core services on the left

z/OSMF Lite Configuration – Migration/Upgrade



- There's no migration actions for z/OSMF Lite
- For any existing z/OSMF Configuration, you should have already configured all z/OSMF Core services following IZUSEC sample.
- If any of the Core service was not properly configured, you can follow the new configuration guide designed for z/OSMF Lite.
- With the new book, z/OSMF provides a much concise configuration requirement for each service.

z/OSMF Lite Configuration Planning



The whole service will not run properly without configuring the service

Part of the service will not run properly without configuring the service

Row View shows list of services built on top of this service (Commonality)

Column View shows list of services required by this service (Complexity of configuration)

								/ \								
	Notificati	z/OSMF Settings	Swagger support of REST API	REST Job API	REST TSO API	Workflow s	Conso	Cloud Provisioni ng	Capaci Provisi ng	ity ioni	Network Configura tion Assistant	Incident Log		Managem	Managem	Workload Managem ent
CEA	\															
CIM																
Notification																
z/OSMF Administrative	. \															
tasks																
z/OSMF Settings																
API Discovery Swagger																
REST Job API	1															
REST File API																
REST TSO API																
Workflows																
Console																
Cloud Provisioning																
Capacity Provisioning																
Network Configuration																
Assistant																
Incident Log																
ISPF																
Resource Monitoring																
Software Management																
Sysplex Management																
Workload Managemen	t															

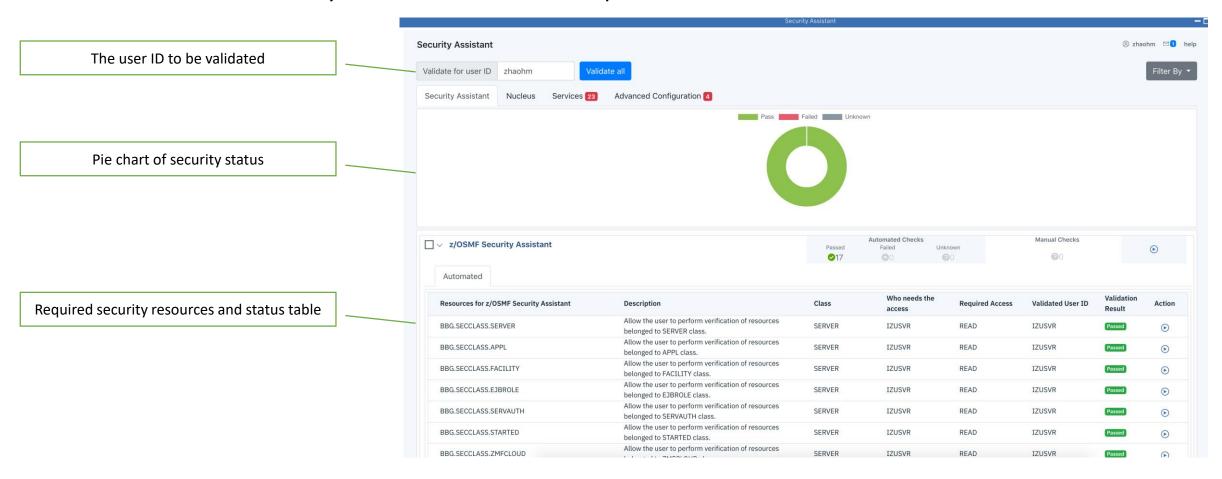
z/OSMF Lite Security Samples

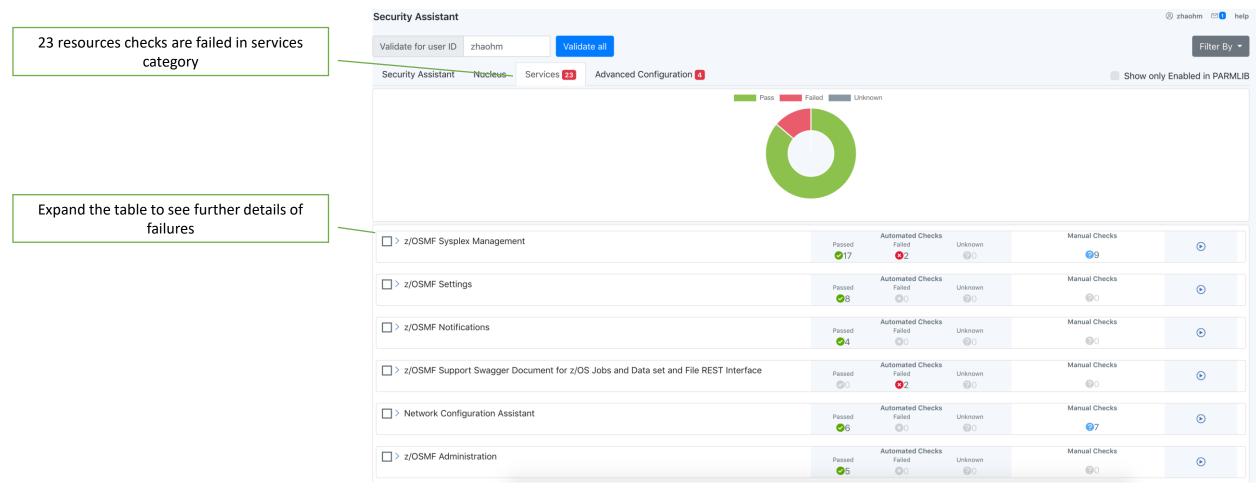
Service	Configurable in IZUPARMXX	Security Sample					
Nucleus	N	IZUNUSEC					
Security Assistant	N	IZUSASEC					
Notification	N	IZUNFSEC					
zOSMF Administrative Tasks	N	IZUATSEC					
z/OSMF Settings	N	IZUSTSEC					
API Discovery Swagger	N	IZUSWSEC	IZUSEC				
REST Job API	N	IZURJSEC	IZUSEC				
REST File API	N	IZURFSEC					
REST TSO API	N	IZUTSSEC					
Cloud Provisioning	N	IZUPRSEC					
Workflows	N	IZUWFSEC					
Console (UI and REST API)	N	IZUGCSEC					
Capacity Provisioning	Υ	IZUCPSEC					
Configuration Assistant	Υ	IZUCASEC					
Incident Log	Υ	IZUILSEC					
ISPF	Υ	IZUISSEC					
Resource Monitoring	Υ	IZURMSEC					
Software Management	Υ	IZUSMSEC					
Sysplex Management	Υ	IZUSPSEC					
Workload Management	Υ	IZUWMSEC					
zERT Network Analyzer	Υ	IZUNASEC					

Requires IZUNUSEC (Nucleus) and IZUSASEC (SA)



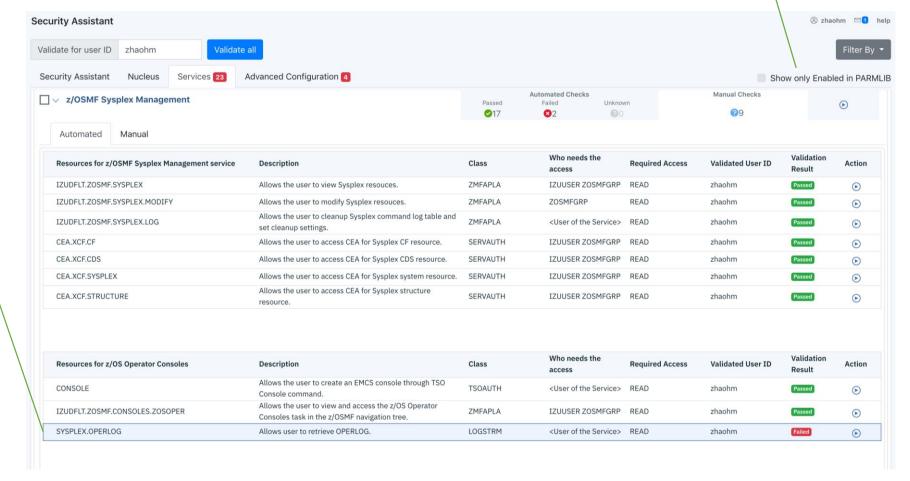
- First time loading page shows self check result for SA
- All results in Security Assistant Tab should be passed if IZUSASEC was submitted



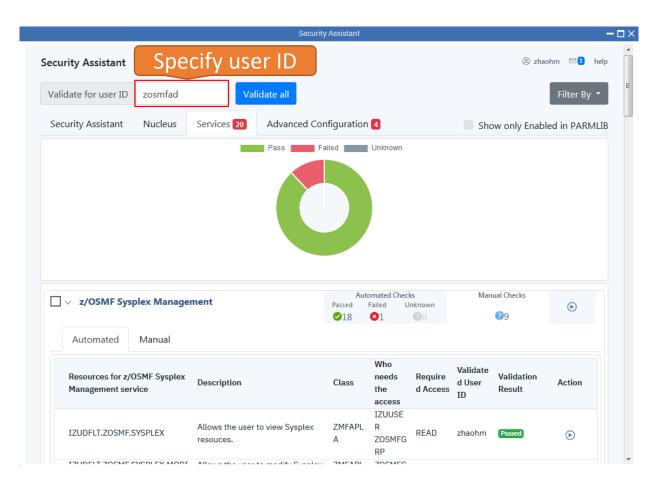


 Check this filter will hide services not enabled in IZUPRMXX

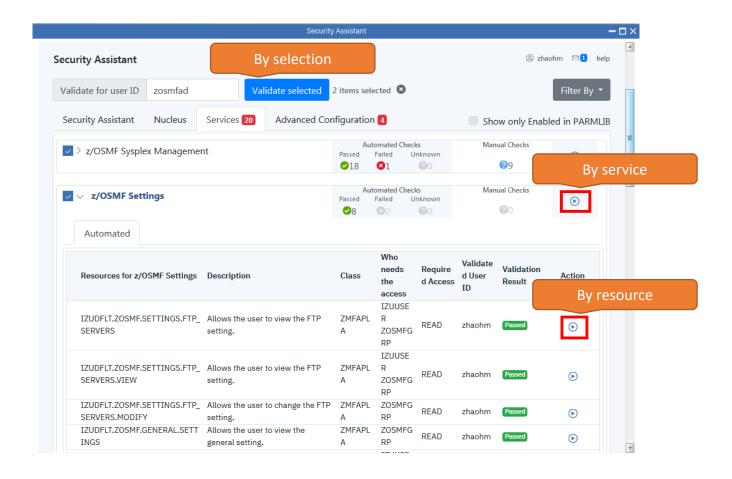
- Review the error and determine if the error needs to be fixed or not
- Rerun this single validation by clicking the revalidate action icon.



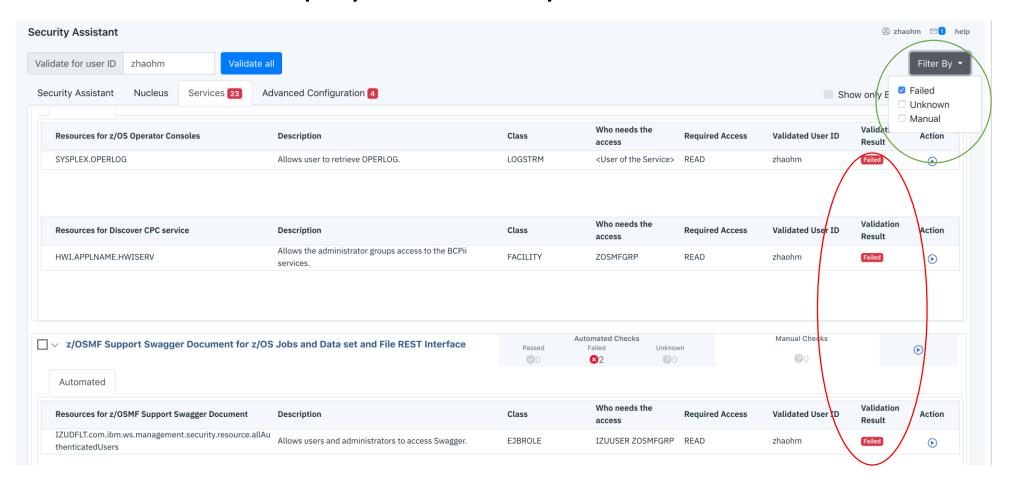
• z/OSMF installer can validate security setup for another z/OSMF user



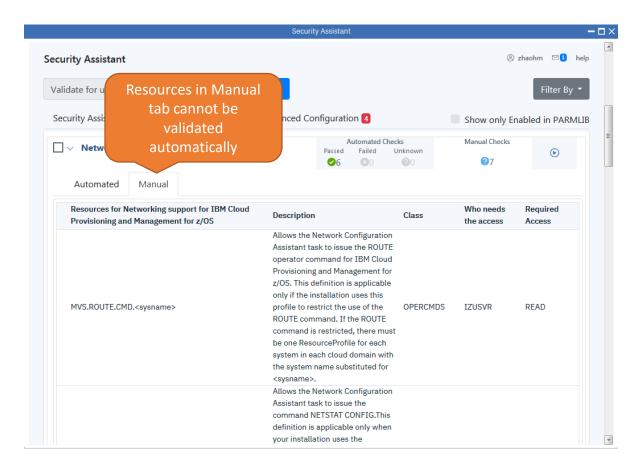
The validation can be run by selection, by service or by resource.



Use the filter to display the results you concerned about



• If a security requirement can not be programmatically validated, it will be listed under the "Manual" section.



Installation - Security Assistant

• The following profiles must be defined. IZUSVR must have read access

to these profiles.

Class	Resource
ZMFAPLA	IZUDFLT.ZOSMF.SA
SERVER	BBG.SECCLASS.SERVER
SERVER	BBG.SECCLASS.APPL
SERVER	SECCLASS.FACILITY
SERVER	BBG.SECCLASS.EJBROLE
SERVER	BBG.SECCLASS.SERVAUTH
SERVER	BBG.SECCLASS.STARTED
SERVER	BBG.SECCLASS.ZMFCLOUD
SERVER	BBG.SECCLASS.ACCTNUM
SERVER	BBG.SECCLASS.TSOPROC
SERVER	BBG.SECCLASS.TSOAUTH
SERVER	BBG.SECCLASS.OPERCMDS
SERVER	BBG.SECCLASS.CSFSERV
SERVER	BBG.SECCLASS.JESSPOOL
SERVER	BBG.SECCLASS.LOGSTRM
SERVER	BBG.SECCLASS.UNIXPRIV
SERVER	BBG.SECCLASS.RDATALIB

Session Summary

- z/OSMF Lite provides a more flexible configuration. You can create your own small configuration that configuration work is achievable in hours.
- z/OSMF Security Assistant can programmatically validate z/OSMF security requirements by users.
- Security administrator can delegate security validation to system programmers.