

z/OSMF Security Setup Overview V2R4

1

JULIE BERGH

JBERGH@ROCKETSOFTWARE.COM

NYRUG OCTOBER 2020

What is z/OSMF

- ▶ IBM z/OS Management Facility (z/OSMF) provides system management functions in a task-oriented, web browser-based user interface with integrated user assistance, so that you can more easily manage the day-to-day operations and administration of your mainframe z/OS systems. By streamlining some traditional tasks and automating others, z/OSMF can help to simplify some areas of z/OS system management.
- ▶ z/OSMF allows you to communicate with the z/OS system through a web browser, so you can access and manage your z/OS system from anywhere. Multiple users can log into z/OSMF using different computers, different browsers, or multiple instances of the same browser.

What is z/OSMF

- ▶ z/OSMF provides a framework for managing various aspects of a z/OS system through a web browser interface.
- ▶ z/OSMF provides you with a single point of control for:
 - ▶ Viewing, defining, and updating policies that affect system behavior
 - ▶ Monitoring the performance of the systems in your enterprise
 - ▶ Managing software that runs on z/OS
 - ▶ Performing problem data management tasks
 - ▶ Consolidating your z/OS management tools.

What is z/OSMF

- ▶ z/OSMF includes the following software:
 - ▶ z/OSMF server.
 - ▶ WebSphere® Liberty profile, which provides an application server runtime environment for z/OSMF.
 - ▶ Set of optional, system management functions or *plug-ins*, which you can enable when you configure z/OSMF.
 - ▶ Technologies for serving the web browser interface, such as JavaScript, Dojo, and Angular.

z/OSMF – From a Security Perspective

z/OSMF - Security:

- z/OSMF uses your **Enterprise Security Management** (e.g., RACF, CA ACF2, CA Top Secret) product for **user authentication and authorization**.
- The z/OSMF SAF-based authorization support brings tighter integration with z/OS SAF-based authorization with the introduction of the resource class ZMFAPLA for z/OSMF task-based resources.
- All z/OSMF tasks and links are associated with resource names and resource class profiles under this resource class, and SAF groups are used to represent Roles.
- SAF-based authorization also allows for custom roles via creation of SAF groups at your discretion.

z/OSMF Components – Classic Interface



IBM z/OS Management Facility

[LEARN MORE](#) [NEED HELP?](#)

Welcome to z/OS

The highly secure, scalable and resilient enterprise operating system for the IBM z Systems mainframe.

z/OS USER ID

z/OS PASSWORD

LOG IN

z/OSMF Components – Classic Interface

This screenshot shows the IBM z/OSMF Classic Interface. On the left is a sidebar menu with the following items: Welcome, Notifications, Workflow Editor, Workflows, Cloud Provisioning, Configuration, Consoles, Jobs and Resources, Links, Performance (expanded), Problem Determination, Software, Sysplex, z/OS Classic Interfaces, z/OSMF Administration, and z/OSMF Settings. The main content area displays a 'Welcome' message and a 'Learn More' section with links to 'What's New', 'z/OSMF tasks at a glance', and 'Getting started with z/OSMF'.

This screenshot shows the IBM z/OSMF Classic Interface with a more detailed sidebar menu. The menu items include: Welcome, Notifications, Workflow Editor, Workflows, Cloud Provisioning, Configuration, Consoles, Jobs and Resources, Links, Performance, Problem Determination, Software, Sysplex, z/OS Classic Interfaces, z/OSMF Administration (expanded to show Application Linking Manager, Import Manager, Links, Security Configuration Assistant, and Usage Statistics), z/OSMF Settings (expanded to show FTP Servers, General Settings, Notification Settings, SDSF Settings, and Systems), and z/OSMF Diagnostic Assistant (expanded to show z/OSMF Diagnostic Assistant). A 'Refresh' button is located at the bottom of the sidebar. The main content area is identical to the first screenshot, displaying a 'Welcome' message and 'Learn More' links.

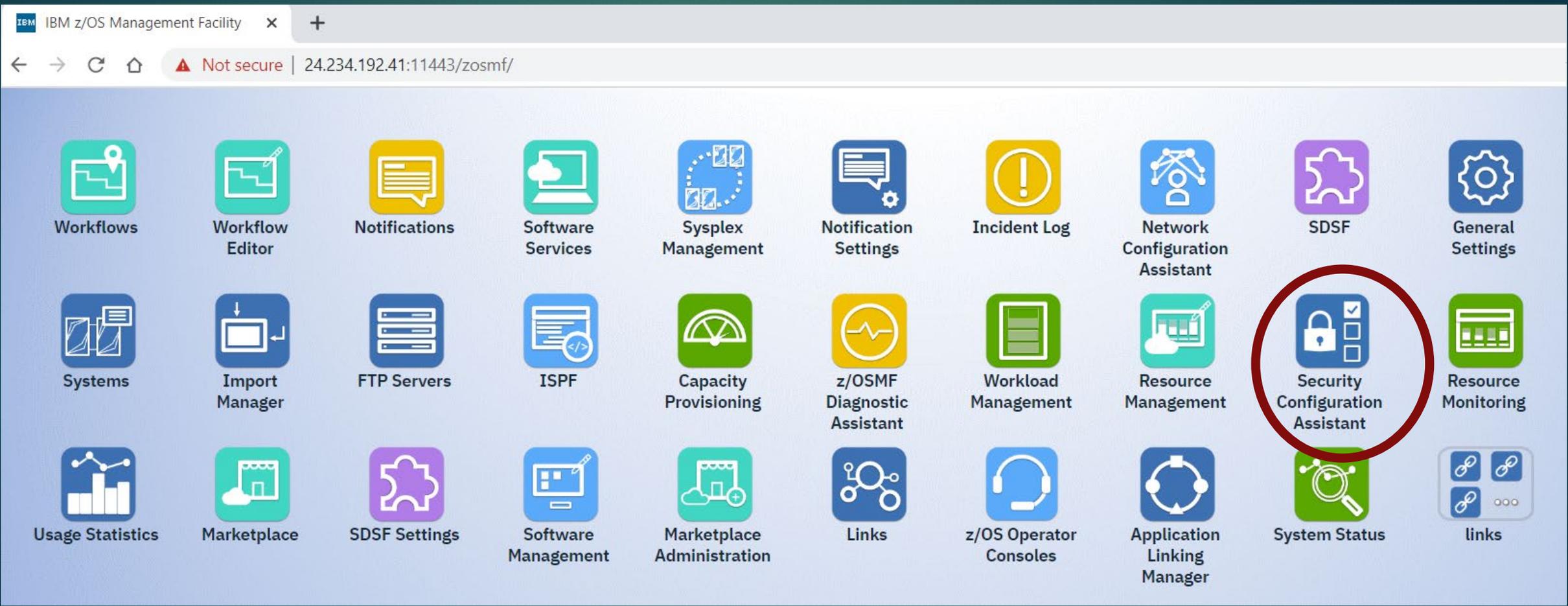
z/OSMF Components – Classic Interface

The screenshot displays the IBM z/OS Management Facility (z/OSMF) classic interface. On the left is a navigation menu with categories such as Workflows, Cloud Provisioning, Configuration, Consoles, Jobs and Resources, Links, Performance, Problem Determination, Software, Sysplex, z/OS Classic Interfaces, and z/OSMF Administration. Under z/OSMF Administration, the 'Security Configuration Assistant' link is highlighted with a mouse cursor. The main content area is titled 'Welcome to IBM z/OS Management Facility' and contains introductory text and a 'Learn More' section with links for 'What's New', 'z/OSMF tasks at a glance', and 'Getting started with z/OSMF'. A modal dialog box is overlaid on the page, displaying an error message: 'The Security Configuration Assistant task is not available in the classic z/OSMF user interface.' The dialog includes the error code 'IZUG433E' and two buttons: 'Switch to desktop UI' and 'Cancel'. A large red arrow points from the 'Switch to desktop UI' button towards the 'Security Configuration Assistant' link in the navigation menu.

Security Configuration Assistant



z/OSMF Components – Desktop Interface



z/OSMF Terms Previous Release

- ▶ Tasks are functions that can be used to manage different aspects of the z/OS system. Some tasks are core functions, others must be configured separately from a base configuration of z/OSMF.
- ▶ Core functions are those tasks which are always enabled when you initially configure the product. They are installed and can run without the need for the additional plug-ins. When the started tasks are brought up, a base configuration of z/OSMF contains only these functions. Some core functions are the Workflows task, the Resource Management task, and the Usage Statistics task.

z/OSMF Terms Previous Release

- ▶ Plug-ins are collections of one or more system management tasks that add significant functionality to z/OSMF and require additional steps to configure and deploy. Plug-ins require the creation of security profiles for the tasks that are associated with them. Examples of plug-ins are the Network Configuration Assistant, Cloud Provisioning, and the Incident Log.
- ▶ Categories are collections of tasks and/or plug-ins with shared characteristics. An example of a category is the Performance category which contains the Capacity Provisioning, Resource Monitoring, and Workload Management plug-ins along with the System Status task.

z/OSMF Terms

- ▶ Nucleus – first time user and using IZUNUSEC – minimal configuration
- ▶ Core Service – workflow tasks, REST API
- ▶ Optional Service – Plug-ins
- ▶ Advanced Configuration – autostart, Links, ICSF

z/OSMF Lite configuration

- What's "z/OSMF Lite configuration"
- "z/OSMF Lite configuration" provides a new approach of z/OSMF configuration which allows user to bring up a minimum z/OSMF as quick as possible and then configure only for z/OSMF services that user require.
- To achieve the goal, z/OSMF Configuration Guide and security sample jobs are both restructured
 - A minimum z/OSMF is defined and referred as z/OSMF nucleus.
 - IZUNUSEC sample job is provided for security configuration of z/OSMF nucleus.
 - Typically, the z/OSMF nucleus can be setup and bring up in 90 minutes*.
 - About 20 z/OSMF services are identified and can be added on top of z/OSMF nucleus per user's need.
 - Setup complexity of each z/OSMF service is provided to help you determine which service to setup first.
 - Dependency list is clearly documented in each z/OSMF service's chapter
 - Configuration required by z/OSMF REST services are also documented in the same structure with plugins in z/OSMF Configuration Guide.
 - Advanced configuration are consolidated in the later chapter so that user can focus on common configuration and bring z/OSMF up quickly.

z/OSMF Lite configuration

- What's "z/OSMF Lite configuration"

Previous z/OSMF configuration

z/OSMF Core	z/OSMF Optional Services
Liberty Profile	Capacity Provisioning
Core Navigation	Network Configuration Assistant
Online Help	Incident Log
Notification	ISPF
Notification settings	Resource Monitoring
App linking	Software Management
Import Manager	Sysplex Management
Links	Workload Management
FTP Servers	zERT
Usage Statistics	Cloud Provisioning
Systems	z/OS Operator Consoles
Workflow Editor	
API Discovery Swagger	
REST Job API	
REST File API	
REST TSO API	
Workflows	



z/OSMF Lite configuration

z/OSMF Nucleus	z/OSMF Core Services	z/OSMF Optional Services
Liberty Profile	Notification	Capacity Provisioning
Core Navigation	Settings	Network Configuration Assistant
Online Help	Administration Tasks	Incident Log
	Workflow Editor	ISPF
	Swagger support for REST APIs	Resource Monitoring
	REST Job API	Software Management
	REST File API	Sysplex Management
	REST TSO API	Workload Management
	Workflows	zERT
		Cloud Provisioning
		z/OS Operator Consoles

z/OSMF

- ▶ IZUNUSEC - represents the authorizations that are needed to set up z/OSMF in a minimal configuration called the *nucleus*.
- ▶ IZUSEC - represents the authorizations that are needed to set up z/OSMF in a full configuration: Nucleus, plus the core services.
- ▶ IZUxxSEC - jobs is associated with a particular z/OSMF service or an advanced configuration setup.
- ▶ To create user authorizations for the services, your security administrator can use the IZUAUTH job in SYS1.SAMPLIB

z/OSMF

- ▶ `ADDGROUP IZUADMIN OMVS(AUTOGID)` - Security group to be used for the z/OSMF administrator role. The user IDs that are connected to this group are considered to be z/OSMF administrators
- ▶ `ADDGROUP IZUUSER OMVS(AUTOGID)` - Security group to be used for the z/OSMF user role. The user IDs that are connected to this group are considered to be z/OSMF users.
- ▶ `ADDGROUP IZUUNGRP OMVS(AUTOGID)` – undefined users
- ▶ `ADDGROUP IZUSECAD OMVS(AUTOGID)` - Group name to be used for the z/OS Security Administrator role. This group is permitted to the Workflows task. Job IZUAUTH. Basically CONNECT commands to connect to other groups.

IZUNUSEC

```
ADDGROUP IZUADMIN OMVS (AUTOUID)
ADDGROUP IZUUSER OMVS (AUTOUID)
ADDGROUP IZUUNGRP OMVS (AUTOUID)
ADDGROUP IZUSECAD OMVS (AUTOUID)

ADDUSER IZUSVR DFLTGRP (IZUADMIN) NOPASSWORD OMVS (AUTOUID) +
  HOME (/global/zosmf/data/home/izusvr) +
  PROGRAM (/bin/sh) NAME ('zOSMF Started Task USERID')

ALTUSER IZUSVR OMVS (FILEPROC (10000))
CONNECT IZUSVR GROUP (IZUSECAD)

ADDUSER IZUGUEST RESTRICTED DFLTGRP (IZUUNGRP) OMVS (AUTOUID) +
  NAME ('zOSMF Unauthenticated USERID') NOPASSWORD
```

IZUNUSEC

```
RDEFINE SERVER BBG.ANGEL.IZUANG1 UACC(NONE)
PERMIT BBG.ANGEL.IZUANG1 CLASS(SERVER) ACCESS(READ) ID(IZUSVR)

RDEFINE SERVER BBG.AUTHMOD.BBGZSAFM UACC(NONE)
PERMIT BBG.AUTHMOD.BBGZSAFM CLASS(SERVER) ACCESS(READ) ID(IZUSVR)

RDEFINE SERVER BBG.AUTHMOD.BBGZSAFM.SAFCRED UACC(NONE)
PERMIT BBG.AUTHMOD.BBGZSAFM.SAFCRED CLASS(SERVER) ACCESS(READ) +
  ID(IZUSVR)

RDEFINE SERVER BBG.AUTHMOD.BBGZSAFM.ZOSWLM UACC(NONE)
PERMIT BBG.AUTHMOD.BBGZSAFM.ZOSWLM CLASS(SERVER) ACCESS(READ) ID(IZUSVR)

RDEFINE SERVER BBG.AUTHMOD.BBGZSAFM.TXRRS UACC(NONE)
PERMIT BBG.AUTHMOD.BBGZSAFM.TXRRS CLASS(SERVER) ACCESS(READ) ID(IZUSVR)

RDEFINE SERVER BBG.AUTHMOD.BBGZSAFM.ZOSDUMP UACC(NONE)
PERMIT BBG.AUTHMOD.BBGZSAFM.ZOSDUMP CLASS(SERVER) ACCESS(READ) +
  ID(IZUSVR)

RDEFINE SERVER BBG.SECPFIX.IZUDFLT UACC(NONE)
PERMIT BBG.SECPFIX.IZUDFLT CLASS(SERVER) ACCESS(READ) ID(IZUSVR)

RDEFINE SERVER BBG.SECCLASS.ZMFAPLA UACC(NONE)
PERMIT BBG.SECCLASS.ZMFAPLA CLASS(SERVER) ID(IZUSVR) ACCESS(READ)

SETROPTS RACLIST(SERVER) REFRESH
```

IZUNUSEC

```
RDEFINE FACILITY BBG.SYNC.IZUDFLT UACC(NONE)
PERMIT BBG.SYNC.IZUDFLT CLASS(FACILITY) ID(IZUSVR) ACCESS(CONTROL)

/* RDEFINE FACILITY BPX.WLMSEVER UACC(NONE) */
PERMIT BPX.WLMSEVER CLASS(FACILITY) ID(IZUSVR) ACCESS(READ)
/* RDEFINE FACILITY BPX.CONSOLE UACC(NONE) */
PERMIT BPX.CONSOLE CLASS(FACILITY) ID(IZUSVR) ACCESS(READ)
SETROPTS RACLIST(FACILITY) REFRESH

RDEFINE APPL IZUDFLT UACC(NONE)
PERMIT IZUDFLT CLASS(APPL) ACCESS(READ) ID(IZUADMIN IZUUSER IZUGUEST)
SETROPTS RACLIST(APPL) REFRESH

RDEFINE EJBROLE IZUDFLT.*.izuUsers UACC(NONE)
PERMIT IZUDFLT.*.izuUsers CLASS(EJBROLE) ACCESS(READ) +
ID(IZUADMIN IZUUSER)
SETROPTS RACLIST(EJBROLE) REFRESH

/* By default, no users are allowed to perform z/OSMF tasks. Users */
/* will only have access to z/OSMF tasks if it's specified explicitly.*/
RDEFINE ZMFAPLA IZUDFLT.** UACC(NONE)
RDEFINE ZMFAPLA IZUDFLT.ZOSMF UACC(NONE)
PERMIT IZUDFLT.ZOSMF CLASS(ZMFAPLA) ACCESS(READ) ID(IZUADMIN IZUUSER)
SETROPTS RACLIST(ZMFAPLA) REFRESH

/* RDEFINE SERVAUTH CEA.SIGNAL.ENF83 UACC(NONE) */
PERMIT CEA.SIGNAL.ENF83 CLASS(SERVAUTH) ID(IZUSVR) ACCESS(READ)
SETROPTS RACLIST(SERVAUTH ) REFRESH
```

IZUNUSEC

```
RDEFINE STARTED IZUSVR1.* UACC(NONE) STDATA(USER(IZUSVR) +  
  GROUP(IZUADMIN) PRIVILEGED(NO) TRUSTED(NO) TRACE(YES))  
RDEFINE STARTED IZUANG1.* UACC(NONE) STDATA(USER(IZUSVR) +  
  GROUP(IZUADMIN) PRIVILEGED(NO) TRUSTED(NO) TRACE(YES))  
SETROPTS RACLIST(STARTED) REFRESH  
@@
```

RC = 0

```
-
-----TIMINGS (MINS.)-----
-STEPNAME PROCSTEP      RC      EXCP      CONN      TCB      SRB      CLOCK
-BASIC01              00      791      0          .01      .00      .0
ICH408I USER(ADCDMST ) GROUP(SYS1      ) NAME(ADCD MASTER      )
  IZUSVR1.* CL(STARTED )
  DEFINE - RESOURCE ALREADY DEFINED
ICH408I USER(ADCDMST ) GROUP(SYS1      ) NAME(ADCD MASTER      )
  IZUANG1.* CL(STARTED )
  DEFINE - RESOURCE ALREADY DEFINED
-STCPROFS              00      113      0          .00      .00      .0
IEF404I ADCDMST1 - ENDED - TIME=09.04.02
-ADCDMST1 ENDED.      NAME-          TOTAL TCB CPU TIME=
$HASP395 ADCDMST1 ENDED - RC=0000
STATISTICS -----
EXECUTION DATE
```

```
IKJ56702I INVALID GROUP, IZUSECAD
```

```
READY
```

```
READY
```

```
ADDUSER IZUSVR DFLTGRP(IZUADMIN) NOPASSWORD OMVS(AUTOUID      HOME(/global/zosmf/d
d Task USERID')
```

```
IKJ56702I INVALID USERID, IZUSVR
```

```
IKJ56701I MISSING HOME DIRECTORY+
```

```
IKJ56701I MISSING OMVS USER'S INITIAL WORKING DIRECTORY
```

```
READY
```

z/OSMF

z/OSMF area to be configured	Description <ul style="list-style-type: none">• Nucleus• Core service• Optional service• Advanced configuration	Security job in SYS1.SAMPLIB
Nucleus	Nucleus	IZUNUSEC
Notifications task	Core service	IZUNFSEC
z/OS data set and file REST services	Core service	IZURFSEC
z/OS jobs REST services	Core service	IZURJSEC
Swagger service	Core service	IZUSWSEC
TSO/E address space services	Core service	IZUTSSEC
z/OSMF administrative tasks	Core service	IZUATSEC
z/OSMF settings service	Core service	IZUSTSEC
z/OSMF Workflows task	Core service	IZUWFSEC
All of the above	Nucleus, plus all core services	IZUSEC

z/OSMF

- ▶ Some z/OSMF services require other z/OSMF services to be enabled. Therefore, you might need to configure more services than just the ones you plan to use.

To use this z/OSMF service...	... Configure these required services	You might also need to configure these optional services, depending on your intended use.
Cloud Provisioning	<ul style="list-style-type: none">• Console services (UI and API)• Network Configuration Assistant• Notifications• Swagger (API Discovery)• z/OSMF Settings• z/OSMF Workflows	<ul style="list-style-type: none">• Common Information Model (CIM) server, which is used by Resource Monitoring and Workload Management.• z/OS data set and file REST services because these services are used by z/OSMF Workflows.• TSO/E address space services because these services are used by the console services.• Resource Monitoring because it is used by Cloud Provisioning to obtain CPU and memory metering data.• Workload Management because it is used by Cloud Provisioning to set CPU and memory capping.
Console services	<ul style="list-style-type: none">• Common event adapter (CEA)• TSO/E address space services• z/OSMF Settings	<ul style="list-style-type: none">• None.
Incident Log	<ul style="list-style-type: none">• Common event adapter (CEA)• z/OSMF Settings• Common Information Model (CIM) server	<ul style="list-style-type: none">• None.

IZUPRMxx

```
HOSTNAME ('s0w1.dal-ebis.ihost.com')
HTTP_SSL_PORT (10443)
INCIDENT_LOG_UNIT ('SYSALLDA')
JAVA_HOME ('/usr/lpp/java/J8.0_64')
KEYRING_NAME ('IZUKeyring.IZUDFLT')
LOGGING ('*=warning:com.ibm.zosmf.*=info:com.ibm.zosmf.environment.ui=
finer')
RESTAPI_FILE ACCT (IZUACCT) REGION (32768) PROC (IZUFPROC)
COMMON_TSO ACCT (IZUACCT) REGION (50000) PROC (IZUFPROC)
SAF_PREFIX ('IZUDFLT')
CLOUD_SAF_PREFIX ('IYU')
SEC_GROUPS USER (IZUUSER), ADMIN (IZUADMIN), SECADMIN (IZUSECAD)
SESSION_EXPIRE (495)
TEMP_DIR ('/tmp')
CSRF_SWITCH (ON)
SERVER_PROC ('IZUSVR1')
ANGEL_PROC ('IZUANG1')
AUTOSTART ('LOCAL')
```

IZUPRMxx

```
Command ==> SCROLL ==> CSR
/* AUTOSTART_GROUP('IZUDFLT') */
/* AUTOSTART_GROUP('NONE') */
USER_DIR('/var/zosmf')
UNAUTH_USER(IZUGUEST)
/* WLM_CLASSES DEFAULT(IZUGHTTP)
   LONG_WORK(IZUGWORK) */
CSRF_SWITCH(OFF)
/* Uncomment the following statement and any plugins that
   are desired */
PLUGINS( INCIDENT_LOG,
          COMMSERVER_CFG,
          WORKLOAD_MGMT,
          RESOURCE_MON,
          CAPACITY_PROV,
          SOFTWARE_MGMT,
          SYSPLEX_MGMT,
          ISPF)
```

F IZUSVR1,DISPLAY IZU

```
F IZUSVR1,DISPLAY IZU
+CWWKBO004I: z/OSMF PARMLIBs DISPLAY 397
  IZUG013I The home page of z/OSMF server in SYSTEM(SOW1)
  in AUTOSTART_GROUP (IZUDFLT) can be accessed at :
  https://SOW1.DAL-EBIS.IHOST.COM:11443/zosmf
  IZUG014I The server started at 08/20/2020 12:30:36
  and has been running for 0004(hhhh):761(mm):02(ss)

Current z/OSMF settings
```

	Source
HOSTNAME (SOW1.DAL-EBIS.IHOST.COM)	IZUPRMAS
+CWWKBO061I CONTINUATION 1 FOR MESSAGE IDENTIFIER 14397	398
HTTP_SSL_PORT (11443)	IZUPRMAS
LOGGING ('*=warning:com.ibm.zoszmf.*=info:com.ibm.zoszm f.environment.ui=finer')	IZUPRMAS
UNAUTH_USER (IZUGUEST)	IZUPRMAS
SEC_GROUPS	
ADMIN (IZUADMIN)	IZUPRMAS
USER (IZUUSER)	IZUPRMAS
SECADMIN (IZUSECAD)	IZUPRMAS
SAF_PREFIX (IZUDFLT)	IZUPRMAS
+CWWKBO061I CONTINUATION 2 FOR MESSAGE IDENTIFIER 14397	399
CLOUD_SAF_PREFIX (IYU)	IZUPRMAS
KEYRING_NAME (IZUKeyring.IZUDFLT)	IZUPRMAS
SESSION_EXPIRE (495)	IZUPRMAS
WLM_CLASSES	
LONG_WORK (IZUGWORK)	DEFAULT
DEFAULT (IZUGHTTP)	DEFAULT
JAVA_HOME (/usr/lpp/java/J8.0_64)	IZUPRMAS
TEMP_DIR (/tmp)	IZUPRMAS
INCIDENT_LOG_UNIT (SYSALLDA)	IZUPRMAS

F IZUSVR1,DISPLAY IZU

```
+CWWKBO061I CONTINUATION 3 FOR MESSAGE IDENTIFIER 14397 400
  RESTAPI_FILE
    ACCT(IZUACCT) IZUPRMAS
    PROC(IZUFFPROC) IZUPRMAS
    REGION(65536) IZUPRMAS
  COMMON_TSO
    ACCT(IZUACCT) IZUPRMAS
    PROC(IZUFFPROC) IZUPRMAS
    REGION(65536) IZUPRMAS
  AUTOSTART_GROUP(IZUDFLT) DEFAULT
+CWWKBO061I CONTINUATION 4 FOR MESSAGE IDENTIFIER 14397 401
  AUTOSTART(LOCAL) IZUPRMAS
  SERVER_PROC(IZUSVR1) IZUPRMAS
  ANGEL_PROC(IZUANG1) IZUPRMAS
  USER_DIR(/var/zosmf) IZUPRMAS
  CSRF_SWITCH(OFF) IZUPRMAS

  Status of z/OSMF plugins

  Configuration Assistant(STARTED) IZUPRMAS
+CWWKBO061I CONTINUATION 5 FOR MESSAGE IDENTIFIER 14397 402
  Capacity Provisioning(STARTED) IZUPRMAS
  Workload Management(STARTED) IZUPRMAS
  Resource Monitoring(STARTED) IZUPRMAS
  Incident Log(STARTED) IZUPRMAS
  Software Management(STARTED) IZUPRMAS
  WebISPF(STARTED) IZUPRMAS
  ZERT(UNSPECIFIED) DEFAULT
  Sysplex Management(STARTED) IZUPRMAS
+CWWKBO005I: COMMAND RESPONSES COMPLETED SUCCESSFULLY FROM display 403
  izu|d izu Command Handler.
+CWWKBO002I: MODIFY COMMAND DISPLAY IZU COMPLETED SUCCESSFULLY.
```

NEW Security Configuration Assistant task

- What's Security Configuration Assistant

Security Configuration Assistant task is built for simplifying the user experience of security configuration and validation. It starts with help z/OSMF security configuration by providing

- Automatic validation of security configuration by user
 - Graphic views for validation result
 - Filter by validation result, service enablement status, etc.
 - Description for each security requirement
 - Support both RACF and non-RACF security products
- Security Configuration Assistant can be used in the following scenarios
 - Security planning for z/OSMF
 - Validation of z/OSMF security configuration
 - Trouble shooting for function failures

Security Configuration Assistant task



Security Configuration Assistant task

```
ADCDMST.SYST.SAMPLIB(IZUSASEC) - 01.00          Columns 00001 00072
===> _____ Scroll ===> CSR
/* Profile Definitions for z/OSMF Security Configuration Assistant */
RDEFINE ZMFAPLA IZUDFLT.ZOSMF.CONFIGURATION.SECURITY_ASSISTANT +
        UACC(NONE)

RDEFINE SERVER BBG.SECCLASS.SERVER UACC(NONE)
RDEFINE SERVER BBG.SECCLASS.APPL UACC(NONE)
RDEFINE SERVER BBG.SECCLASS.FACILITY UACC(NONE)
RDEFINE SERVER BBG.SECCLASS.EJBROLE UACC(NONE)
RDEFINE SERVER BBG.SECCLASS.SERVAUTH UACC(NONE)
RDEFINE SERVER BBG.SECCLASS.STARTED UACC(NONE)
RDEFINE SERVER BBG.SECCLASS.ZMFCLOUD UACC(NONE)
RDEFINE SERVER BBG.SECCLASS.ACCTNUM UACC(NONE)
RDEFINE SERVER BBG.SECCLASS.TSOPROC UACC(NONE)
RDEFINE SERVER BBG.SECCLASS.TSOAUTH UACC(NONE)
RDEFINE SERVER BBG.SECCLASS.OPERCMDS UACC(NONE)
RDEFINE SERVER BBG.SECCLASS.CSFSERV UACC(NONE)
RDEFINE SERVER BBG.SECCLASS.JESSPOOL UACC(NONE)
RDEFINE SERVER BBG.SECCLASS.LOGSTRM UACC(NONE)
RDEFINE SERVER BBG.SECCLASS.UNIXPRIV UACC(NONE)
RDEFINE SERVER BBG.SECCLASS.RDATALIB UACC(NONE)
```

Security Configuration Assistant task



```
/* *****  
/* Permit definitions for z/OSMF Security Configuration Assistant*/  
/* *****  
/* Begin zOSMF Administrator Role Setup */  
/* *****  
PERMIT IZUDFLT.ZOSMF.CONFIGURATION.SECURITY_ASSISTANT +  
      CLASS(ZMFAPLA) ACCESS(READ) ID(IZUADMIN)  
  
/* *****  
/* End zOSMF Administrator Role Setup */  
/* *****
```

Security Configuration Assistant task

```
/* **** */
/* Permit the started task USERID access */
/* **** */
PERMIT BBG.SECCLASS.SERVER CLASS(SERVER) ACCESS(READ) ID(IZUSVR)
PERMIT BBG.SECCLASS.APPL CLASS(SERVER) ACCESS(READ) ID(IZUSVR)
PERMIT BBG.SECCLASS.FACILITY CLASS(SERVER) ACCESS(READ) ID(IZUSVR)
PERMIT BBG.SECCLASS.EJBROLE CLASS(SERVER) ACCESS(READ) ID(IZUSVR)
PERMIT BBG.SECCLASS.SERVAUTH CLASS(SERVER) ACCESS(READ) ID(IZUSVR)
PERMIT BBG.SECCLASS.STARTED CLASS(SERVER) ACCESS(READ) ID(IZUSVR)
PERMIT BBG.SECCLASS.ZMFAPLA CLASS(SERVER) ACCESS(READ) ID(IZUSVR)
PERMIT BBG.SECCLASS.ZMFCLOUD CLASS(SERVER) ACCESS(READ) ID(IZUSVR)
PERMIT BBG.SECCLASS.ACCTNUM CLASS(SERVER) ACCESS(READ) ID(IZUSVR)
PERMIT BBG.SECCLASS.TSOPROC CLASS(SERVER) ACCESS(READ) ID(IZUSVR)
PERMIT BBG.SECCLASS.TSOAUTH CLASS(SERVER) ACCESS(READ) ID(IZUSVR)
PERMIT BBG.SECCLASS.OPERCMDS CLASS(SERVER) ACCESS(READ) ID(IZUSVR)
PERMIT BBG.SECCLASS.CSFSEV CLASS(SERVER) ACCESS(READ) ID(IZUSVR)
PERMIT BBG.SECCLASS.JESSPOOL CLASS(SERVER) ACCESS(READ) ID(IZUSVR)
PERMIT BBG.SECCLASS.LOGSTRM CLASS(SERVER) ACCESS(READ) ID(IZUSVR)
PERMIT BBG.SECCLASS.UNIXPRIV CLASS(SERVER) ACCESS(READ) ID(IZUSVR)
PERMIT BBG.SECCLASS.RDATALIB CLASS(SERVER) ACCESS(READ) ID(IZUSVR)
```

Security Configuration Assistant task

The screenshot displays the Security Configuration Assistant interface. At the top, there is a header "Security Configuration Assistant". Below it, a form contains a "Validate for user ID" field with the value "johnwd" and a "Validate all" button. A red error message below the field reads "Please input a valid user id." Below the form are tabs for "Security Configuration Assistant", "Nucleus", and "Services". Under the "Automated" tab, there is a table with the following data:

Resources for z/OSMF Sysplex Management service	Description
IZUDFLT.ZOSMF.SYSPLEX	Allows the use
IZUDFLT.ZOSMF.SYSPLEX.MODIFY	Allows the use
IZUDFLT.ZOSMF.SYSPLEX.LOG	Allows the use

Overlaid on the interface is a notification window with a bell icon and a close button (X). It contains three messages:

- Green message: "ID ADCDMST." with timestamp "8/10/20, 1:36 PM".
- Green message: "IZUSA0002I Validation processing completed for user ID IBMUSER." with timestamp "8/10/20, 1:40 PM".
- Red message: "IZUSA0011E The requested user ID johnwd either does not exist or is not authorized to z/OSMF." with timestamp "8/10/20, 1:41 PM".

At the bottom of the notification window are "Close" and "Clear" buttons.

Security Configuration Assistant task



Security Configuration Assistant

Validate for user ID

Please input a valid user id.

[IZUSA0011E](#) The requested user ID *testjb* either does not exist or is not authorized to z/OSMF.

Security Configuration Assistant Nucleus Services **Advanced Configuration**

Passed Failed Unknown

Security Configuration Assistant task

- Security Configuration Assistant – Graphic view to display automatic validation result

Validation is done per user

- Validation can be done against
- All z/OSMF security configuration
 - Selected services
 - One specific security requirement

Security Configuration Assistant

Validate for user ID: debug1 [Validate all]

Security Configuration Assistant | Nucleus | Services 31 | Advanced Configuration 24

Align with z/OSMF Lite configuration

Legend: ■ Passed ■ Failed ■ Unknown

Category	Passed	Failed	Unknown	Manual Checks
z/OSMF Sysplex Management	23	3	0	9
z/OSMF Settings	7	1	0	0
z/OSMF Notifications	3	1	0	0

Resources for z/OSMF Notifications	Description	Class	Who needs the access	Required Access	Validated User ID	Validation Result	Action
IZUP03SF.ZOSMF.NOTIFICATION.SETTINGS	Allows the user to view the Notification Settings task.	ZMFAPLA	IZUUSER IZUADMIN	READ	debug1	Passed	Refresh
IZUP03SF.ZOSMF.NOTIFICATION.SETTINGS.ADMIN	Allows the user to modify the notification settings.	ZMFAPLA	IZUADMIN	READ	debug1	Passed	Refresh
IZUP03SF.ZOSMF.NOTIFICATION.MODIFY	Allows the user to send a notification.	ZMFAPLA	IZUUSER IZUADMIN	READ	debug1	Passed	Refresh
IRR.RUSERMAP	Allows notification settings task to get the user's email address configured to RACF.	FACILITY	IZUUSER IZUADMIN	READ	debug1	Failed	Refresh

Description is included for each security requirement

Security Configuration Assistant task

Security Configuration Assistant

Validate for user ID Validate all

Security Configuration Assistant Nucleus **Services 13** **Advanced Configuration 2**

Passed Failed Unknown

Status	Count
Passed	11
Failed	2
Unknown	0

Security Configuration Assistant task

Validate for user ID Validate all Filters ▾

Security Configuration Assistant | Nucleus | Services **13** | Advanced Configuration **2**

z/OSMF Security Configuration Assistant

Automated Checks: Passed **18** ✓, Failed **0** ✕, Unknown **0** ? | Manual Checks: **0** ? | Refresh

Automated

Resources for z/OSMF Security Configuration Assistant	Description	Class	Who needs the access	Required Access	Validated User ID	Validation Result	Action
BBG.SECCLASS.SERVER	Allow the user to verify resources in the SERVER class.	SERVER	IZUSVR	READ	IZUSVR	Passed	Refresh
BBG.SECCLASS.APPL	Allow the user to verify resources in the APPL class.	SERVER	IZUSVR	READ	IZUSVR	Passed	Refresh
BBG.SECCLASS.FACILITY	Allow the user to verify resources in the FACILITY class.	SERVER	IZUSVR	READ	IZUSVR	Passed	Refresh
BBG.SECCLASS.EJBROLE	Allow the user to verify resources in the EJBROLE class.	SERVER	IZUSVR	READ	IZUSVR	Passed	Refresh
BBG.SECCLASS.SERVAUTH	Allow the user to verify resources in the SERVAUTH class.	SERVER	IZUSVR	READ	IZUSVR	Passed	Refresh

Security Configuration Assistant task

Validate for user ID [Validate all](#) Filters ▾

Security Configuration Assistant | Nucleus | Services **13** | Advanced Configuration **2**

Resources for z/OSMF Liberty Server	Description	Class	Who needs the access	Required Access	Validated User ID	Validation Result	Action
BBG.ANGEL.IZUANG1	Allow the z/OSMF server to access the angel process.	SERVER	IZUSVR	READ	IZUSVR	Passed	↻
BBG.AUTHMOD.BBGZSAFM	Enable z/OSMF server to use the z/OS Authorized services.	SERVER	IZUSVR	READ	IZUSVR	Passed	↻
BBG.AUTHMOD.BBGZSAFM.SAFCRED	To enable the SAF authorized user registry services and SAF authorization services(SAFCRED).	SERVER	IZUSVR	READ	IZUSVR	Passed	↻
BBG.AUTHMOD.BBGZSAFM.ZOSWLM	To enable the WLM services(ZOSWLM).	SERVER	IZUSVR	READ	IZUSVR	Passed	↻
BBG.AUTHMOD.BBGZSAFM.TXRRS	To enable the RRS transaction services(TXRRS).	SERVER	IZUSVR	READ	IZUSVR	Passed	↻
BBG.AUTHMOD.BBGZSAFM.ZOSDUMP	To enable the SVCDUMP services(ZOSDUMP).	SERVER	IZUSVR	READ	IZUSVR	Passed	↻
BBG.SECPF.XIZUDFLT	Allow the z/OSMF server to make authentication calls against the APPL-ID.	SERVER	IZUSVR	READ	IZUSVR	Passed	↻
BBG.SECCLASS.ZMFAPLA	Allow the z/OSMF server to authorize checks for the ZMFAPLA class.	SERVER	IZUSVR	READ	IZUSVR	Passed	↻
BBG.SYNC.IZUDFLT	Allow the z/OSMF server to authorize checks for the ZMFACLOUD class.	FACILITY	IZUSVR	CONTROL	IZUSVR	Passed	↻
BPX.WLMSEVER	Allows the z/OSMF server to use WLM functions to create and manage work requests.	FACILITY	IZUSVR	READ	IZUSVR	Passed	↻
BPX.CONSOLE	Allow the user to filter z/OS UNIX messages. Specifically, this setting suppresses the BPXM023I message prefix from any write-to-operator (WTO) messages that z/OSMF writes to the console.	FACILITY	IZUSVR	READ	IZUSVR	Passed	↻

Security Configuration Assistant task

Validate for user ID Validate all Filters

Security Configuration Assistant | Nucleus | Services **13** | Advanced Configuration **2**

BPX.CONSOLE	any write-to-operator (WTO) messages that z/OSMF writes to the console.	FACILITY	IZUSVR	READ	IZUSVR	Passed	
IZUDFLT	Allow access to the z/OSMF application domain. If there is no matching profile in the APPL class, RACF allows the user to access the application.	APPL	IZUGUEST	READ	IZUGUEST	Passed	

Resources for Keyring and Certificate	Description	Class	Who needs the access	Required Access	Validated User ID	Validation Result	Action
IRR.DIGTCERT.LISTRING	Allow the started task user ID to list and get the certificate keyring.	FACILITY	IZUSVR	READ	IZUSVR	Passed	

Resources for z/OSMF Nucleus functions	Description	Class	Who needs the access	Required Access	Validated User ID	Validation Result	Action
IZUDFLT	Allow access to the z/OSMF application domain.	APPL	IZUUSER IZUADMIN	READ	adcdmst	Passed	
IZUDFLT.IzuManagementFacility.izuUsers	Allow the user to log on to z/OSMF and view the Welcome page.	EJBROLE	IZUUSER IZUADMIN	READ	adcdmst	Passed	
IZUDFLT.IzuManagementFacilityHelpApp.izuUsers	Allow the user to connect to the z/OSMF online help system.	EJBROLE	IZUUSER IZUADMIN	READ	adcdmst	Passed	
IZUDFLT.IzuManagementFacilityImportUtility.izuUsers	Allow the user to use the Import Manager task to import services, event types, event handlers, and links into z/OSMF.	EJBROLE	IZUUSER IZUADMIN	READ	adcdmst	Passed	
IZUDFLT.ZOSMF	This authorization is the minimum requirement for allowing a user to do more than log in to z/OSMF and view the Welcome page. Without this authorization, the logged-in user is treated as an authenticated guest.	ZMFAPLA	IZUUSER IZUADMIN	READ	adcdmst	Passed	

Security Configuration Assistant task

Validate for user ID Filters ▾

Security Configuration Assistant | Nucleus | Services **13** | Advanced Configuration **2**

Automated | Manual

Items for User and Group	Description
Ensure Server ID IZUSVR is connected to security administration group IZUSECAD.	If your security management product is RACF, you can use command LISTUSER IZUSVR to check. If your installation uses a security manager other than RACF, you must use equivalent commands to check in your environment.

Items for Started Task	Description
Check Started Task profile for Angel is properly defined.	If your security management product is RACF, you can use command RLIST STARTED IZUANG1.* STDATA to check. If your installation uses a security manager other than RACF, you must use equivalent commands to check in your environment.
Check Started Task profile for Server is properly defined.	If your security management product is RACF, you can use command RLIST STARTED IZUSVR1.* STDATA to check. If your installation uses a security manager other than RACF, you must use equivalent commands to check in your environment.

Security Configuration Assistant task

Validate for user ID		adcdmst		Validate all		Filters ▾			
Security Configuration Assistant		Nucleus		Services 13		Advanced Configuration 2		Show enabled services only	
<input type="checkbox"/>	> z/OSMF Sysplex Management	Passed ✔27	Automated Checks Failed ✖2	Unknown ?0	Manual Checks ?10				
<input type="checkbox"/>	> z/OSMF Settings	Passed ✔8	Automated Checks Failed ✖0	Unknown ?0	Manual Checks ?0				
<input type="checkbox"/>	> z/OSMF Notifications	Passed ✔4	Automated Checks Failed ✖0	Unknown ?0	Manual Checks ?0				
<input type="checkbox"/>	> z/OSMF Support Swagger Document	Passed ✔0	Automated Checks Failed ✖2	Unknown ?0	Manual Checks ?0				
<input type="checkbox"/>	> Network Configuration Assistant	Passed ✔8	Automated Checks Failed ✖0	Unknown ?0	Manual Checks ?7				
<input type="checkbox"/>	> z/OSMF Administration	Passed ✔6	Automated Checks Failed ✖0	Unknown ?0	Manual Checks ?0				
<input type="checkbox"/>	> TSO/E Address Space Services	Passed ✔2	Automated Checks Failed ✖0	Unknown ?0	Manual Checks ?3				
<input type="checkbox"/>	> z/OS Jobs REST Interface	Passed ✔1	Automated Checks Failed ✖0	Unknown ?0	Manual Checks ?2				

Security Configuration Assistant task

Security Configuration Assistant

Nucleus

Services **13**

Advanced Configuration **2**

0

0

0

1

z/OSMF requirement to ICSF

Passed
21

Automated Checks
Failed
0

Unknown
0

Manual Checks
0



Automated

Resources for z/OSMF requirement to the ICSF callable services	Description	Class	Who needs the access	Required Access	Validated User ID	Validation Result	Action
CSFIQF	ICSF query facility callable service.	CSFSERV	IZUSVR	READ	IZUSVR	Passed	
CSFENC	Encipher callable service.	CSFSERV	IZUSVR	READ	IZUSVR	Passed	
CSFCVE	Cryptographic variable encipher callable service.	CSFSERV	IZUSVR	READ	IZUSVR	Passed	
CSFDEC	Decipher callable service.	CSFSERV	IZUSVR	READ	IZUSVR	Passed	
CSFSAE	Symmetric algorithm encipher callable service.	CSFSERV	IZUSVR	READ	IZUSVR	Passed	
CSFSAD	Symmetric algorithm decipher callable service.	CSFSERV	IZUSVR	READ	IZUSVR	Passed	
CSFOWH	One-way hash generate callable service.	CSFSERV	IZUSVR	READ	IZUSVR	Passed	
CSFRNG	Random number generate callable service.	CSFSERV	IZUSVR	READ	IZUSVR	Passed	
CSFRNGL	Random number generate long callable service.	CSFSERV	IZUSVR	READ	IZUSVR	Passed	

Security Configuration Assistant task



Validate for user ID Validate all Filters

Security Configuration Assistant Nucleus **Services 13** **Advanced Configuration 2** Show enabled services on

z/OSMF Incident Log Passed 6 Automated Checks Failed 0 Unknown 0 Manual Checks 2 Refresh

Automated Manual

Resources for z/OSMF Incident Log	Description	Class	Who needs the access	Required Access	Validated User ID	Validation Result	Action
IZUDFLT.ZOSMF.INCIDENT_LOG.INCIDENT_LOG	Allow user to access the Incident Log task.	ZMFAPLA	IZUUSER IZUADMIN	READ	adcdmst	Passed	Refresh
CEA.CEAGETPS	Allow user to obtain information about the FTP job.	SERVAUTH	IZUUSER IZUADMIN	UPDATE	adcdmst	Passed	Refresh
CEA.CEADOCMD	Allow user to cancel the FTP job.	SERVAUTH	IZUUSER IZUADMIN	UPDATE	adcdmst	Passed	Refresh
CEA.CEAPDWB*	Allow user to access Incident Log.	SERVAUTH	IZUUSER IZUADMIN	UPDATE	adcdmst	Passed	Refresh
CEA.CEADOCONSOLECMD	Allow the calling program to issue operator commands.	SERVAUTH	IZUUSER IZUADMIN	UPDATE	adcdmst	Passed	Refresh
IZUDFLT.IzuManagementFacilityIncidentLog.izuUsers	Allow the user to connect to the Incident Log task.	EJBROLE	IZUUSER IZUADMIN	READ	adcdmst	Passed	Refresh

Security Configuration Assistant task

z/OSMF Incident Log

Passed ✔ 6 Automated Checks Failed ✘ 0 Unknown ⊗ 0 Manual Checks ❓ 2

Automated Manual

Items for z/OSMF Incident Log	Description
Ensure that the CEA security resource is defined in your security system.	<p>If your installation sets up PROTECT-ALL (RACF exit to protect all data sets) you must create a CEA.* RACF profile and permit user identity. The HLQ CEA is the CEA HLQ provided during the configuration prompts. Ensure that these commands are appropriate for your environment:</p> <pre>ADDSD 'CEA.*' UACC(NONE)</pre> <pre>PERMIT 'CEA.*' ID(IZUADMIN) ACCESS(ALTER)</pre> <pre>PERMIT 'CEA.*' ID(IZUUSER) ACCESS(ALTER)</pre>

Items for CIM Server	Description
Ensure that the current user is authorized to the CIM server user group CFZUSRGP.	If your external security manager is RACF, you can CONNECT the user ID to the CFZUSRGP group.

Security Configuration Assistant task

Validate for user ID Validate all Filters

Security Configuration Assistant Nucleus Services **13** **Advanced Configuration 2**

✓1 ✗0 ?0 ?1

z/OSMF Discover CPC
Passed ✓4 **Automated Checks** Failed ✗1 Unknown ?0 **Manual Checks** ?2

Automated Manual

Resources for Discover CPC service	Description	Class	Who needs the access	Required Access	Validated User ID	Validation Result	Action
HWI.APPLNAME.HWISERV	Allows the administrator groups access to the BCPii services.	FACILITY	IZUADMIN	READ	adcdmst	Failed	

Resources for z/OS data set and file REST interface	Description	Class	Who needs the access	Required Access	Validated User ID	Validation Result	Action
CEA.CEATSO.TSOREQUEST	Allows CEA to invoke a TSO session.	SERVAUTH	IZUUSER IZUADMIN IZUSVR	READ	adcdmst	Passed	
IZUACCT	Allows access to the Account Number resource profile.	ACCTNUM	IZUUSER IZUADMIN	READ	adcdmst	Passed	
IZUFPROC	Allows access to the TSO Procedure resource profile.	TSOPROC	IZUUSER IZUADMIN	READ	adcdmst	Passed	
IZUDFLT.IzuManagementFacilityRestFiles.izuUsers	Allows access to z/OS data set and file REST interface.	EJBROLE	<User of the Service>	READ	adcdmst	Passed	

Security Configuration Assistant task

z/OSMF Discover CPC

Automated Checks: Passed 4, Failed 1, Unknown 0. Manual Checks: 2.

Automated | Manual

Resources for Discover CPC service	Description	Class	Who needs the access	Required Access
HWI.TARGET.<netid.nau>	Allows the administrator groups access to the CPC profile. is the 3-17 character SNA name of the particular CPC.	FACILITY	IZUADMIN	READ
HWI.TARGET.<netid.nau>.<imagename>	Allows the administrator groups access to the IMAGE profile. is the 3-17 character SNA name of the particular CPC. is the 1-8 character LPAR name.	FACILITY	IZUADMIN	READ

RACF Classes Used in Various Definitions

- ▶ ACCTNUM
- ▶ APPL
- ▶ CSFSERV
- ▶ DATASET
- ▶ DIGTCERT
- ▶ DIGTRING
- ▶ EJBROLE
- ▶ FACILITY
- ▶ JESSPOOL
- ▶ LOGSTRM
- ▶ OPERCMDS
- ▶ PROGRAM
- ▶ PTKTDATA
- ▶ RDATA LIB – for certificates
- ▶ REALM
- ▶ SERVAUTH
- ▶ SERVER
- ▶ STARTED
- ▶ SURROGAT
- ▶ TSOAUTH
- ▶ TSOPROC
- ▶ ZMFAPLA
- ▶ ZMFCLOUD
- ▶ UNIXPRIV

Security Configuration Security Setup

– Some Statistics – New Jobs

- ▶ In z/OS 2.3 there were approximately 336 RACF commands in the IZUxx members in SYS1.SAMPLIB
- ▶ In z/OS 2.4 there are approximately 642 RACF commands in the IZUxx members in SYS1.SAMPLIB
- ▶ The primary member in SYS1.SAMPLIB is IZUSEC. In z/OS 2.3 it contained 658 lines. In z/OS 2.4 this member has 751 lines.

Security Configuration Security Setup

– Some Statistics – New Jobs

JOBNAME	DESCRIPTION
IZUASSEC	Security Setup for z/OSMF AUTOSTART function
IZUATSEC	Security setup for z/OSMF Administrator tasks and web site links
IZUDCSEC	This sample JCL intends to help with security setup required per user of Discover CPC function
IZUICSEC	Setup hardware crypto(ICSF) for z/OSMF server
IZUNFSEC	Security setup for z/OSMF Notifications
IZUNUSEC	Security setup for z/OSMF Nucleus basic
IZURFSEC	Security Setup for z/OS data set and file REST interface
IZURJSEC	Security Setup for z/OS Jobs REST interface
IZUSASEC	Security Setup for z/OSMF Security Configuration Assistant
IZUSKSEC	Setup shared key ring and certificate for the z/OSMF server
IZUSTSEC	This sample JCL intends to help with security setup required per user of z/OSMF settings
IZUSWSEC	This sample JCL intends to help with security setup required for z/OSMF Support Swagger Document Profile for Liberty API Discovery support
IZUTLSEC	Setup AT-TLS security for z/OSMF server
IZUTSSEC	This sample JCL intends to help with security setup required per user of z/OSMF TSO/E address space service
IZUWFSEC	z/OSMF work flows

Security Configuration Security Setup

– Summary

- ▶ Major improvements in RACF commands
- ▶ Security Assistant great improvement and contains lots of detail

Security Configuration Security Setup

– Summary

- ▶ Some RACF profiles have changed and some have been removed.
 - ▶ Note RACF commands provide do not always include fields like OWNER, SUPERIOGROUP
 - ▶ This is applicable for ADDGROUP, ADDUSER, RDEFINE, CONNECT
 - ▶ Did not provide all the instances, one should review the commands before executing
- ▶ Activates classes sometimes before profiles are created
 - ▶ Adds groups IZUADMIN, IZUUSER, IZUUNGRP
 - ▶ This corresponds to what is defined in IZUPRMxx in SYS1.PARMLIB
 - ▶ Assumes AUTOGID

z/OSMF – From a Security Perspective

- ▶ Sample JCL is SYS1.SAMPLIB – IZUSEC is the primary one for setting up the base configuration
 - ▶ Adds user IZUSVR – this will be userid for the 2 started tasks
 - ▶ DEFAULTGROUP (IZUADMIN)
 - ▶ Assumes AUTOUID
 - ▶ Adds user IZUGUEST – this is unauthenticated user
 - ▶ Makes user RESTRICTED
 - ▶ This corresponds to what is defined in IZUPRMxx in SYS1.PARMLIB
 - ▶ DEFAULTGROUP (IZUUNGRP)

z/OSMF – From a Security Perspective

- ▶ RACF commands are fully qualified generics
- ▶ Review commands as they may undercut what is already defined in your system.
- ▶ Review commands as an example of CSFSERV as this will define more profiles that may cause other areas to stop working.
- ▶ Recommend put in 'back stop' entries to protect other areas
- ▶ Recommend putting in generic profiles versus fully qualified generics
- ▶ As the JCL states, review the JCL for you company standards and completeness.
- ▶ Still need to RACF CONNECT people to the appropriate groups
- ▶ The initial product needs to be up and running before you can configure / use the security assistant

QUESTIONS

z/OSMF Security Setup Overview V2R4

55

JULIE BERGH