



z/OSMF User Experience - Part 1

Share in Orlando
Session 9737 - August 10, 2011
Mary Anne Matyaz

Base Technologies Inc, A CA Technologies Company, for US
Customs and Border Protection

User Experience Part 1

- Mary Anne Matyaz, Senior MVS Systems Programmer, Base Technologies, Inc.
- Under contract at United States Customs and Border Protection for two years.
- Specializes in MVS, JES2, SMP/E, WLM, IPCS, Sysplex
- Vaguely familiar with Top Secret, WAS
- CBP is a large site, multiple z196's, 20-ish Webspheres, 100's of CICS, DB2, Datacom

U.S. Customs and Border Protection

- In 2010:
- CBP seized 4.1 million pounds of narcotics
- CBP seized \$147 million dollars in currency
- CBP officers at ports of entry apprehended more than 8,400 people
- CBP officers at more than 330 ports of entry inspected 352 million travelers and more than 105.8 million cars, trucks, buses, trains, vessels and aircraft.
- CBP processed \$1.99 trillion in import value and collected \$32.3 billion in duties, taxes, and fees

May 2010 – Start

- Ordered a z/OSMF CBPDO, received it on May 5, RSU1003.
- Install was relatively quick and painless
- Started configuring WASOEM the same day I installed.
- I took mostly defaults, and changed obvious stuff, sysname, dnsname, etc.

So far so good...

- Customization definition successfully written to /etc/zWebSphereOEM/V7R0/conf/CONFIG1/zpmt
- Copying CNTL files to BBN.V7R0.CONFIG1.ZPMTJOBS.CNTL...
- Copy successful.
- Copying DATA files to BBN.V7R0.CONFIG1.ZPMTJOBS.DATA...
- Copy successful.
- Success: customization jobs have been created successfully.

- Submit the following jobs before running WASOEM.sh -create
- First, submit BBN.V7R0.CONFIG1.ZPMTJOBS.CNTL(BBOSBRAK) - Make sure that you select BBOSBRAK.

- After BBN.V7R0.CONFIG1.ZPMTJOBS.CNTL(BBOSBRAK) completes, submit the following: BBN.V7R0.CONFIG1.ZPMTJOBS.CNTL(BBOSBRAM)
BBN.V7R0.CONFIG1.ZPMTJOBS.CNTL(BBOCBRAK)
- WASOEM.sh has completed

The fun begins...

- Being a Top Secret shop, we can't run the rexx execs as they are, we need to convert them to Top Secret commands.
- I enlisted the help of the TopSecret guy, who also happens to be the Websphere guy, who also happens to be a former marine. (Think: A Few Good Men--Col Jessup, not Dawson and Downey)
- It turns out, he KNOWS TOO MUCH. He knows what the WAS ID's do, and how to name them to fit our rigid standards.

Tips for Success:

- DON'T Change the userids
 - DON'T Change the ports
 - DO use RACF.
 - DO use the quickstart guide
 - DO bring your tenacity, persistence, sticktoitiveness, or any other synonym you prefer.
-
- If you follow these five, can define your own ID's in RACF, and have no port issues, you should be able to have z/OSMF up in a day.
 - Luckily for me, said Marine is next door. The TCPIP guys are not.

What went wrong: WASOEM

- BPXSHAREAS to No
- OMVS(ASSIZE) to 12000000
- Don't use a proclib that someone else may be browsing. I created a new proclib for these members then copied them later, because WASOEM.sh -create needs EXCL and will fail
- Admin console didn't start up. Opened PMR, took a Friday off, and the marine jumped in while I was gone and got it working, not sure how. He said he ran some jobs in .cntl file (BBOWCFS, HFSA, PFA), and played with the key ring cert. Then changed the key ring cert and did the config again, and it started up.

What went wrong: Ports in CIM and WASOEM

- BBOO0269E BIND FOR CF PORT FAILED BECAUSE PORT 1025 WAS ALREADY IN USE
- BBOO0269E BIND FOR CF PORT FAILED BECAUSE PORT 1026 WAS ALREADY IN USE
- CIM uses port 5988, with no obvious way to change that, and a note in the manual saying they recommend NOT to change it.
- INADDRANYPORT(5755) to (5990) to open port 5988 for the new CIM Server (CFZCIM)
- `chown -R CIM:CIMGP /var/wbem` if CIM is not UID(0)

What went wrong: CIM

- The CIM stuff hadn't been configured in the serverpac. /var/wbem/ filesystem wasn't there. Had to run the serverpac job.
- IZUG095I: The Common Information Model (CIM) server must be configured and started before proceeding with configuration.
- There's a question in the Script that asks if you want to configure CIM, I said yes, thinking that would take care of this, but the serverpac jobs are part of 'install', not configure.
- CIM gets his own nonzero uid, but I am uid 0 and I created the file systems, so CIM can't access his own filesystems.
 - `chown -R CIM:CIMGP /var/wbem`
- Add /usr/lib to libpath in cimserver.env

A wild hair...

- The marine changed `/zWebSphereOEM/V7R0/conf/` to `/websphere/v70/oem` one day, for whatever reason. Didn't tell me.
- The `izusetup` script didn't work.

Had to change
`/etc/zWebSphereOEM/V7R0/conf/CONFIG1/CONFIG1/CONFIG1.responseFile` because `izusetup` checks that the path is there.

The good news...

- IBM Support Center was **fabulous!**

Patient. Persistent. Not condescending. Not telling me to read the manual. Knowledgeable.

Special thanks to Walter, Katie, Becky, Mike Y. at IBM Support, and Anuja Deedwaniya.

I still like Marines.

A few months later... z/OS 1.12 upgrade – Migrate

- /usr/lpp/zosmf/V1R12/bin: >izumigrate.sh -file /etc/zosmf/izuconfig1.cfg
- /usr/lpp/zosmf/V1R12/bin: >izumigrate.sh -file /etc/zosmf/izuconfig1.cfg
- IZUG178I: The input configuration file "/etc/zosmf/izuconfig1.cfg" was saved to a backup file "/etc/zosmf/izuconfig1.cfg.V1R11".
- IZUG177I: The configuration file "/etc/zosmf/izuconfig1.cfg" has been migrated to the format: "V1R12".
- IZUG210I: The script "./izumigrate.sh" has completed.

Upgrade to z/OS 1.12 - Deploy

- IZUG146I: Invoking script `"/usr/lpp/zosmf/V1R12/bin/izuadmin.sh -deployBase"`.
- IZUG146I: Invoking script `"/usr/lpp/zosmf/V1R12/bin/izuadmin.sh -verifyBase"`.
- IZUG083I: The verification of "core" has completed successfully.
- IZUG349I: The "z/OSMF Welcome panel" can be accessed at `"https://NOTALLOWED.TOPUBLISH.THIS:10908/zosmf"` after the application server is started on your system.
- IZUG210I: The script `"/.izusetup.sh"` has completed.

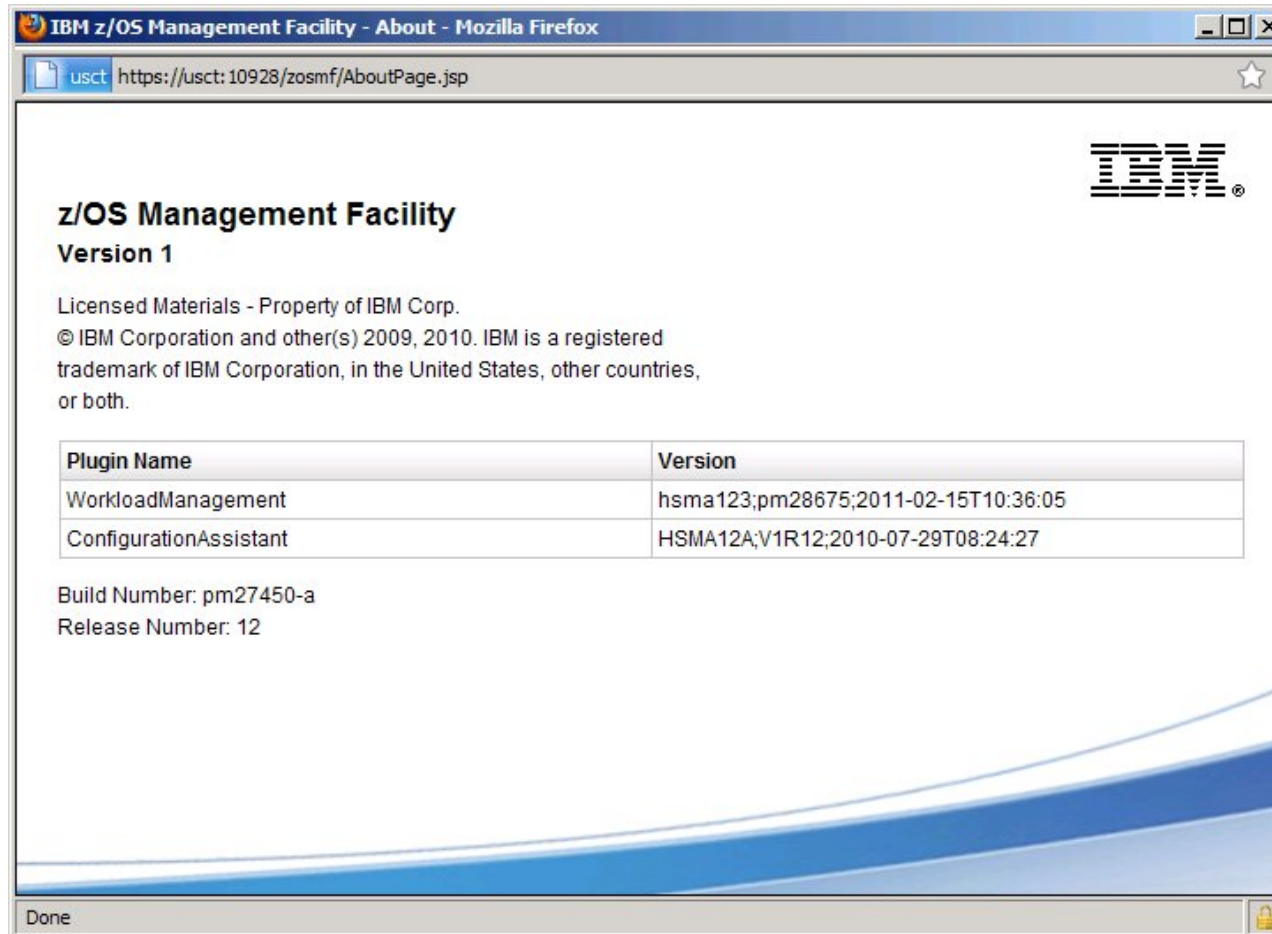
Upgrade to z/OS 1.12

- Went surprising smoothly!

Decided to put a PTF on...

- PM27450/UK65997 z/OSMF 1.13 toleration support for 1.12.
- Holddata action shows:
 - `/usr/lpp/zosmf/V1R12/bin/izusetup.sh -file /etc/zosmf/izuconfig1.cfg -service`
- Ran successfully the first time, brought the server back up, all is well.
- Subsequently applied PTFS Aug 3, same deal, holddata specified the redeploy command, issued it, worked like a charm.

After:



The screenshot shows a web browser window titled "IBM z/OS Management Facility - About - Mozilla Firefox". The address bar shows the URL "https://usct:10928/zosmf/AboutPage.jsp". The page content includes the IBM logo, the title "z/OS Management Facility Version 1", copyright information, and a table of plugin versions.

z/OS Management Facility
Version 1

Licensed Materials - Property of IBM Corp.
© IBM Corporation and other(s) 2009, 2010. IBM is a registered trademark of IBM Corporation, in the United States, other countries, or both.

Plugin Name	Version
WorkloadManagement	hsma123;pm28675;2011-02-15T10:36:05
ConfigurationAssistant	HSMA12A;V1R12;2010-07-29T08:24:27

Build Number: pm27450-a
Release Number: 12

Done

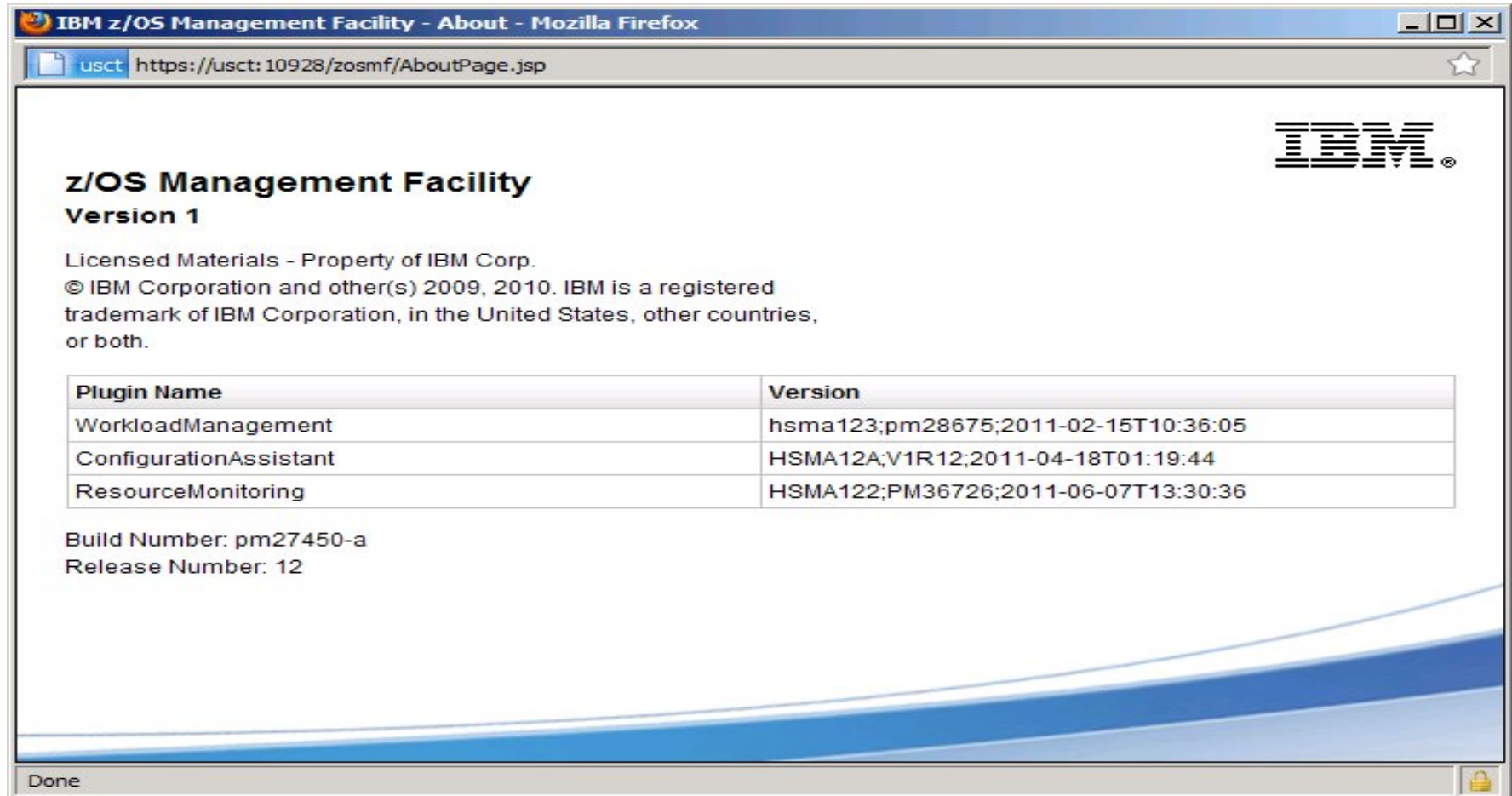
Adding RMF

- I decided to add the RMF part of z/OSMF. It came in by PTF so I hadn't 'deployed' it for z/OSMF.
- I'll make a long story short. After much bumbling around, and losing WLM...I found - `izuaddplugin.sh`

IZUADDPLUGIN

- IZUG146I: Invoking script `"/usr/lpp/zosmf/V1R12/bin/izuaddplugin.sh -config /etc/zosmf/izuconfig1.cfg"`.
- IZUG215I: Starting z/OSMF "add plug-in" procedure.
- IZUG165I: You have selected to configure Resource Monitoring.
- IZUG186I: You have selected to add the following plug-ins.
- IZUG187I: Plug-in: "Resource Monitoring".
- IZUG188I: To accept these plug-in selections, press Enter. To edit these
- IZUG243I: Accepted input:
- IZUG166I: No configuration prompts are required for the plug-in Resource Monitor
- IZUG224I: The configuration data was saved in file `"/etc/zosmf/izuconfig1.cfg"`.
- IZUG191I: No security setup procedure is required for the specified plug-ins.
- IZUG210I: The script `"/usr/lpp/zosmf/V1R12/bin/izuracf.sh"` has completed.
- IZUG210I: The script `"/.izusetup.sh"` has completed.
- IZUG146I: Invoking script `"/usr/lpp/zosmf/V1R12/bin/izuadmin.sh -deployPlugins"`.

Adding RMF...After



The screenshot shows a web browser window titled "IBM z/OS Management Facility - About - Mozilla Firefox". The address bar shows the URL "https://usct:10928/zosmf/AboutPage.jsp". The page content includes the IBM logo, the title "z/OS Management Facility Version 1", and copyright information. A table lists the installed plugins and their versions. At the bottom, the build and release numbers are displayed.

z/OS Management Facility
Version 1

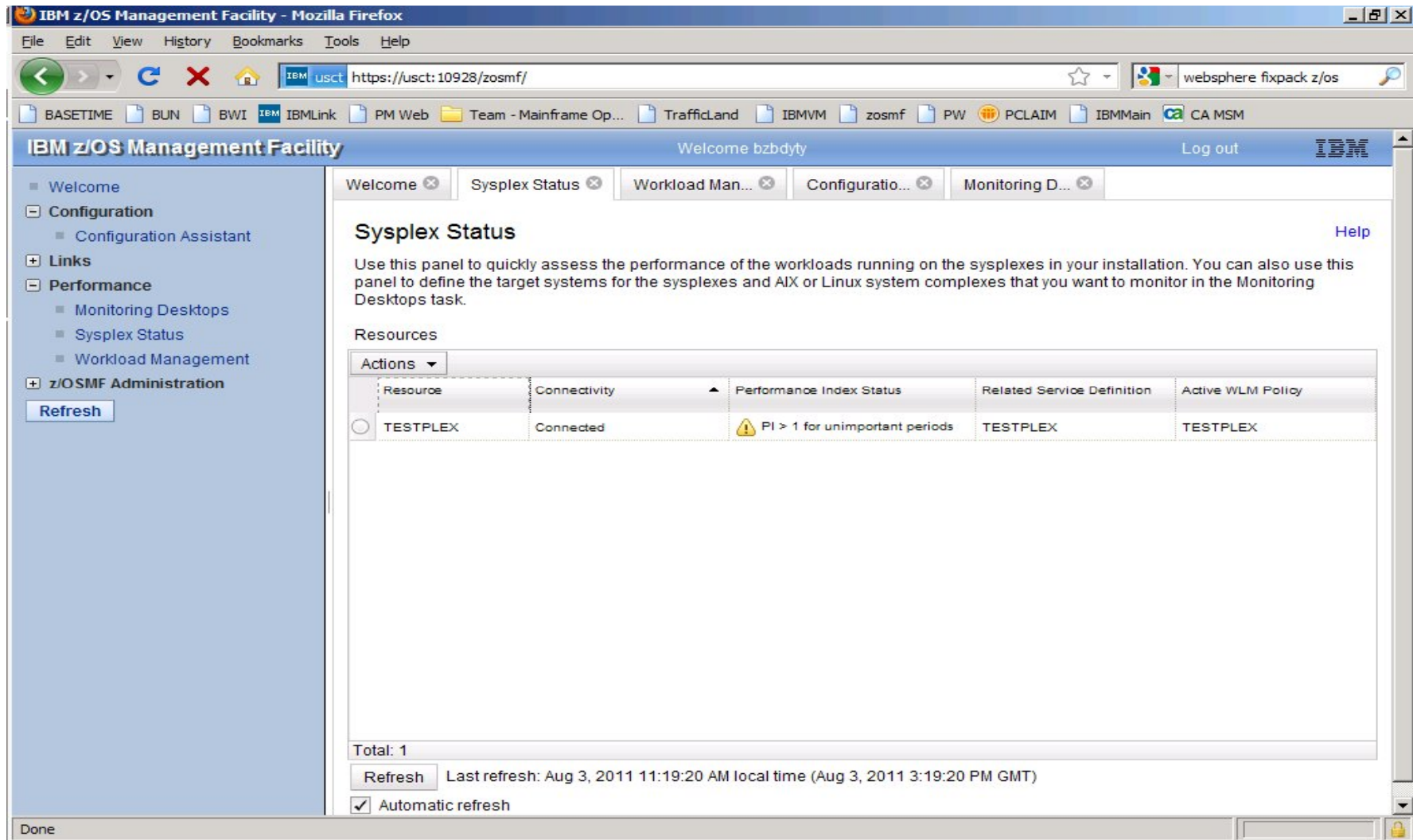
Licensed Materials - Property of IBM Corp.
© IBM Corporation and other(s) 2009, 2010. IBM is a registered trademark of IBM Corporation, in the United States, other countries, or both.

Plugin Name	Version
WorkloadManagement	hsma123;pm28675;2011-02-15T10:36:05
ConfigurationAssistant	HSMA12A;V1R12;2011-04-18T01:19:44
ResourceMonitoring	HSMA122;PM36726;2011-06-07T13:30:36

Build Number: pm27450-a
Release Number: 12

Done

RMF 'Sysplex Status' link



The screenshot shows the IBM z/OS Management Facility (zOSMF) interface in a Mozilla Firefox browser. The browser address bar shows the URL `https://usct:10928/zosmf/`. The page title is "IBM z/OS Management Facility". The left navigation pane includes sections for "Welcome", "Configuration", "Links", "Performance", and "z/OSMF Administration". The "Performance" section is expanded, showing "Monitoring Desktops", "Sysplex Status", and "Workload Management". The "Sysplex Status" link is selected. The main content area displays the "Sysplex Status" page. It includes a description: "Use this panel to quickly assess the performance of the workloads running on the sysplexes in your installation. You can also use this panel to define the target systems for the sysplexes and AIX or Linux system complexes that you want to monitor in the Monitoring Desktops task." Below this is a "Resources" section with a table. The table has columns: "Resource", "Connectivity", "Performance Index Status", "Related Service Definition", and "Active WLM Policy". The table contains one row for "TESTPLEX" with a status of "Connected" and a warning icon indicating "PI > 1 for unimportant periods". At the bottom of the table, it says "Total: 1". There is a "Refresh" button and a "Last refresh" timestamp: "Aug 3, 2011 11:19:20 AM local time (Aug 3, 2011 3:19:20 PM GMT)". A checkbox for "Automatic refresh" is checked.

IBM z/OS Management Facility - Mozilla Firefox

File Edit View History Bookmarks Tools Help

usct https://usct:10928/zosmf/ websphere fixpack z/os

BASETIME BUN BWI IBM IBMLink PM Web Team - Mainframe Op... TrafficLand IBMVM zosmf PW PCLAIM IBMMain CA MSM

IBM z/OS Management Facility Welcome bzbdyty Log out IBM

■ Welcome
[-] Configuration
 ■ Configuration Assistant
+ Links
[-] Performance
 ■ Monitoring Desktops
 ■ Sysplex Status
 ■ Workload Management
+ z/OSMF Administration
Refresh

Welcome Sysplex Status Workload Man... Configuratio... Monitoring D...

Sysplex Status [Help](#)

Use this panel to quickly assess the performance of the workloads running on the sysplexes in your installation. You can also use this panel to define the target systems for the sysplexes and AIX or Linux system complexes that you want to monitor in the Monitoring Desktops task.

Resources

Actions ▾

Resource	Connectivity	Performance Index Status	Related Service Definition	Active WLM Policy
TESTPLEX	Connected	⚠ PI > 1 for unimportant periods	TESTPLEX	TESTPLEX

Total: 1

Refresh Last refresh: Aug 3, 2011 11:19:20 AM local time (Aug 3, 2011 3:19:20 PM GMT)

☒ Automatic refresh

Done

Every time I run IZUSETUP I get:

IZUG635E Path "/var/zosmf/data" exists, but it is read-only.

- EUID=0 /USCT/var/zosmf/

Type	Perm	Owner	-----Size	Filename
_Dir	777	MAM	320	.
_Dir	777	MAM	864	.
_Dir	755	MAM	288	configuration
_Dir	750	WTASCR	544	data

Chmod -R 777 /var/zosmf/data

Configuring Incident Log

- I'm hesitant to admit defeat, so last week, I took another shot at incident log.
- I used the 'add' like I did with RMF.
- `izusetup.sh -file /etc/zosmf/izuconfig1.cfg -config -overridefile /etc/zosmf/izuil.ovr --add`
 - IZUG165I: You have selected to configure Incident Log.
 - IZUG186I: You have selected to add the following plug-ins.
 - IZUG187I: Plug-in: "Incident Log".
 - IZUG188I: To accept these plug-in selections, press Enter.
To edit these selections, enter E.
- Then ran `izusetup` with `--prime` and `-finish`

Problems

- **IZUG686E** An error occurred while priming the z/OSMF repository. Check the server log.
 - `chmod -R 777 /var/zosmf/data/`
- **IZUG123E**: An error occurred. The Common Event Adapter (CEA) parmlib member was not activated.
 - CIM Server crashed
 - IEF450I CFZCIM *OMVSEX CFZCIM - ABEND=SBE0 U0000
REASON=180F58F0
 - *IEF450I CFZCIM *OMVSEX CFZCIM - ABEND=S000 U4038
REASON=00000001
 - CEE3501S The module ceasapii.dll was not found. From entry point call_CEADoConsoleCommand at compile unit offset +00000 229DCF98.
 - Had to add /usr/lib to libpath in /etc/wbem/cimserver.env
 - Found: "Replace the environment file cimserver.env located in /etc/wbem with the new sample installed in directory /usr/lpp/wbem. However, if you prefer, instead of replacing cimserver.env with the new sample, make sure that the following directories are included in the LIBPATH defined in cimserver.env: /usr/lpp/wbem/lib:/usr/lpp/wbem/provider:/usr/lib." in CIM user guide re 1.12 migration

More errors...

- **IZUG122E**: Verification failed for "Incident Log".
 - More chmods
- **IZUG417E** An error occurred when retrieving navigation area content
 - More chmods
- **IZUP635E** The request could not be completed. User "mam" is not authorized to issue requests to the common event adapter (CEA).
 - Add.il.rexx issues: RDEFINE SERVAUTH CEA.CEAPDWB* UACC(NONE)
 - TopSecret trace shows:
TSS-1 4000000000000
00000000 T/000000000000 **CEA.CEAPDWB.CEAGETINCIDENT**
 - We had to change it to CEA.CEAPDWB and it worked.

Maintenance

- **PM27450 / UK65997** - Toleration maintenance. If you install z/osmf in 1.13 and want to fallback to z/os 1.12, but continue to use the 1.13 files.
- **PM28518 / UK66119** - z/OSMF Message IZUG686E may be issued in exceptional circumstances where one or more files cannot be accessed during priming and initialization of the z/OSMF data repository.
- **PM35170 / FP 7.0.0.17** Users are unable to access the WLM application of z/OSMF
The problem is that the user's id is being used to access the files. The expectation is that the servid would be used based on the sychToOSThread setting. Sent to WAS OEM and fixed in FP 7.0.0.17

Tip: Environment Checker

IBM z/OSMF - Environment Checker - Windows Internet Explorer provided by US Customs & Border Protection

https://usct:10928/zosmf/izuUICommon/environment.jsp Certificate Error /var/zosmf/data/logs/IZUG0.log

File Edit View Favorites Tools Help

Favorites BASETIME BUN BWI IBM SR IBMLink PCLAIM PM Web TAD Team - Mainframe Ops TrafficLand ibmvm IBMMAIN

IBM z/OS Management Facility - Environment Checker

[Help](#)

The environment checker tool has inspected your workstation for compliance with IBM z/OS Management Facility (z/OSMF).

Environment Option	Settings as of 2010-11-29T17:57:38.913Z	Requirements																
JavaScript	JavaScript enabled	Enable JavaScript																
Cookies	Cookies enabled	At a minimum, enable cookies for the z/OSMF server site																
Pop-up Windows	Pop-up windows enabled	At a minimum, allow pop-up windows from the z/OSMF server site																
Frames	Frames enabled	Enable frames																
Screen Resolution	1024 by 768	Minimum screen resolution of 1024 by 768																
Browser Content Dimensions	⚠ 1020 by 562	Minimum browser content dimensions of 800 by 600																
Browser Name and Version Browser User-Agent value	Internet Explorer 7.0 Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1; Trident/4.0; InfoPath.1; .NET CLR 2.0.50727; .NET CLR 3.0.4506.2152; .NET CLR 3.5.30729) Warning: Slow browser responsiveness may occur when opening multiple tabs, working with large WLM service definitions, or running monitoring desktops for a long time. Use the recommended browser to alleviate this situation.	Supported browsers by operating system: <table border="1"> <thead> <tr> <th>Operating System</th> <th>Firefox 3.0.x 32-bit (Minimum 3.0.15)</th> <th>Firefox 3.5.x 32-bit</th> <th>Internet Explorer 32-bit</th> </tr> </thead> <tbody> <tr> <td>Microsoft Windows XP Professional 32-bit</td> <td>Yes</td> <td>Yes</td> <td>Yes</td> </tr> <tr> <td>Microsoft Windows Vista Business 32-bit</td> <td>Yes</td> <td>Yes</td> <td>Yes</td> </tr> <tr> <td>Microsoft Windows 7 Professional 32-bit</td> <td>No</td> <td>Yes</td> <td>No</td> </tr> </tbody> </table>	Operating System	Firefox 3.0.x 32-bit (Minimum 3.0.15)	Firefox 3.5.x 32-bit	Internet Explorer 32-bit	Microsoft Windows XP Professional 32-bit	Yes	Yes	Yes	Microsoft Windows Vista Business 32-bit	Yes	Yes	Yes	Microsoft Windows 7 Professional 32-bit	No	Yes	No
Operating System	Firefox 3.0.x 32-bit (Minimum 3.0.15)	Firefox 3.5.x 32-bit	Internet Explorer 32-bit															
Microsoft Windows XP Professional 32-bit	Yes	Yes	Yes															
Microsoft Windows Vista Business 32-bit	Yes	Yes	Yes															
Microsoft Windows 7 Professional 32-bit	No	Yes	No															
Operating System	Microsoft Windows XP	Microsoft Windows XP Professional 32-bit, Microsoft Windows Vista Business 32-bit, and Microsoft W																
Add-ons	No problem add-ons detected	Firebug may cause a performance impact to z/OSMF																
Plug-ins	Java	Some plug-ins may cause a performance impact to z/OSMF																

Done Local intranet 100%

Environment Checker

- <https://hostname:port/zosmf/IzuUICommon/environment.jsp>
- Documented in the z/OSMF User Guide

It's Up...Now What?

- The TCPIP guy is happily using it for Policy Agent.
- I use its reporting capabilities for WLM, which are very nice. It's easy to query, search, etc.
- Even though z/osmf runs in the testplex, I was able to 'import the prodplex policy in so I could report on it, and used that info for a cleanup effort.
- I couldn't get the Incident Log portion to configure, and I really didn't care, for several reasons:
 - We don't use sysplex-wide DAE (Our lpars are all very different)
 - We don't really use operlog, and don't care for logger either.
 - We have a homegrown system to manage dumps and we love it.
- Incident log was not the impetus for z/OSMF for us, the TCP/IP guy wanted it for Config Asst.
- I like the new RMF Plugin

Miscellaney

- BBOO0222I: SECJ6222I: Thread identity synchronization of user "" was not authorized by the z/OS security product
- TSS ADD(OMVSDEPT) SURROGAT(BBO.)
- TSS PER(WOEMP) SURROGAT(BBO.SYNC.)
ACC(READ)
- This was while attempting to add a user who is not a sysprog...the performance guy, so he could look at WLM info. We still have to make him UID(0)
- There is now a script to authorize a user
izuauthuser.sh -file /etc/zosmf/izuconfig1.cfg -userid MAM
IZUG287I: z/OSMF RACF "authorize user" processing complete. Review and run "/etc/zosmf/izuconfig1.cfg.MAM.rexx" before proceeding with configuration.

My observations

- I initially set z/osmf up on our little sysprog lpar. Not a lot of juice, and so...z/OSMF is **SLOW**. 30 second screen flips
- Right now, not using the incident log function, I can't really see the bang for the buck. Not the cost of software but the cost of running it.
- **PM34596: Z/OS MANAGEMENT FACILITY TARGET SYSTEM MINIMUM REQUIREMENTS**
- 2G memory, and 120 PCI (mips)
- I have 10G and 400PCI on my lpar.

New Stuff

- IBM is putting together a 'Security Requirements' document/white paper. I saw it, and commented on it.
- It should be very helpful to Top Secret and ACF2 shops
- It looks something like this:

<u>Class</u>	<u>Profile</u>	<u>Users/groups</u>	<u>Access</u>	<u>Created by</u>
Surrogat	BPX.SRV.**	CFZADM;CFSSRV	READ	izuconfig1.cfg.rexx
	BBO.SYNC.ZOSMFAD	installer	ALTER	izuconfig1.cfg.rexx
	BBO.SYNC.ZOSMFAD	WSSRU1	READ	izuconfig1.cfg.rexx
	BBO.SYNC.userid	WSSRU1	READ	izuconfig1.cfg.rexx

Things I hope they improve

- I'd like to see the WLM function run a 'classify' of a task. Not sure how this would work, but I'd like to be able to test what an STC is going to classify as.
- My advice: Reset IZUG0.log every time z/osmf starts up, or give me a way to reset it, so I can get a fresh start.
- I very much miss ASKQ, or SIS. IBM doesn't seem to promote issues to Q&A anymore, so the types of errors I'm getting result in few google hits, and I have to open a PMR.

Questions?

- The next several slides are simply screen shots of z/OSMF FYI.
- I'll go through them quickly....but I do want to point out stuff I liked

WLM Settings

IBM z/OS Management Facility - Windows Internet Explorer provided by US Customs & Border Protection

https://usct:10928/zosmf/ Certificate Error Google

File Edit View Favorites Tools Help

★ Favorites PTZ1 IBM-MAIN BASETIME BWI IBM SR IBMLink PCLAIM PM Web TAD Team - Mainframe Ops TrafficLand ibmvm

Welcome Configuration Assistant Links Performance Workload Management z/OSMF Administration Links Roles Users Refresh

Welcome Workload Man...

Workload Management

Help

Overview Settings

Enable consistency checking between z/OSMF and the z/OS Workload Manager (WLM) couple data set:
Yes

Sysplex Settings

Sysplex name:
CSPLEXT1

Code page for the sysplex:
IBM-1047 (default)

Backup sequential data set for the sysplex:
SYSprog.WLM.&&USER&&.&&TIME&&.R1C

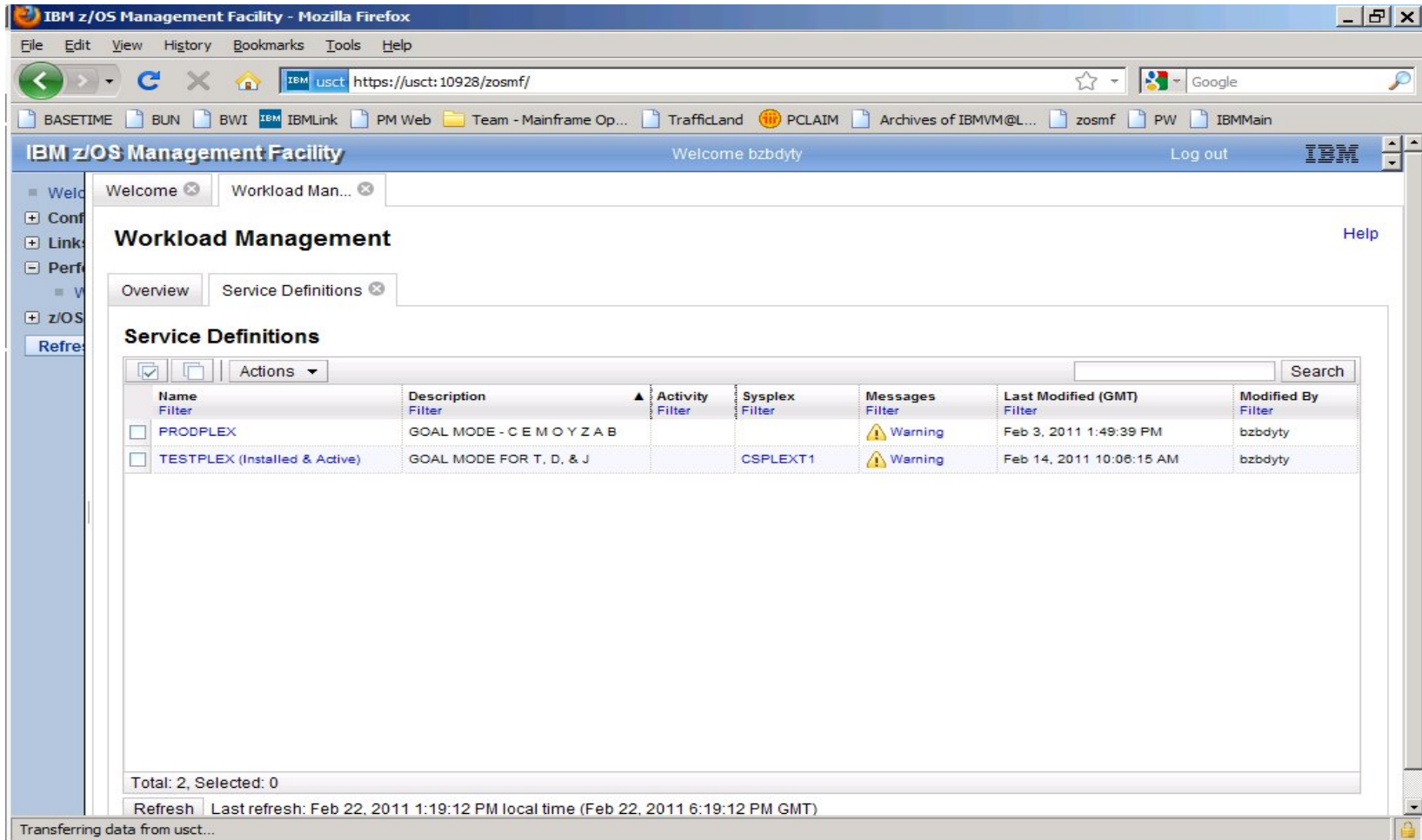
User Settings

Display information messages that notify you that an object was created, modified, deleted, or imported:
Yes

OK Cancel

Done Local intranet 100%

WLM – Service Definitions



The screenshot shows the IBM z/OS Management Facility web interface in a Mozilla Firefox browser. The page title is "IBM z/OS Management Facility" and the user is logged in as "bzbdyty". The main navigation menu includes "Welcome", "Workload Management", "Configuration", "Links", "Performance", "z/OS", and "Refresh". The "Workload Management" section is active, and the "Service Definitions" tab is selected.

Service Definitions

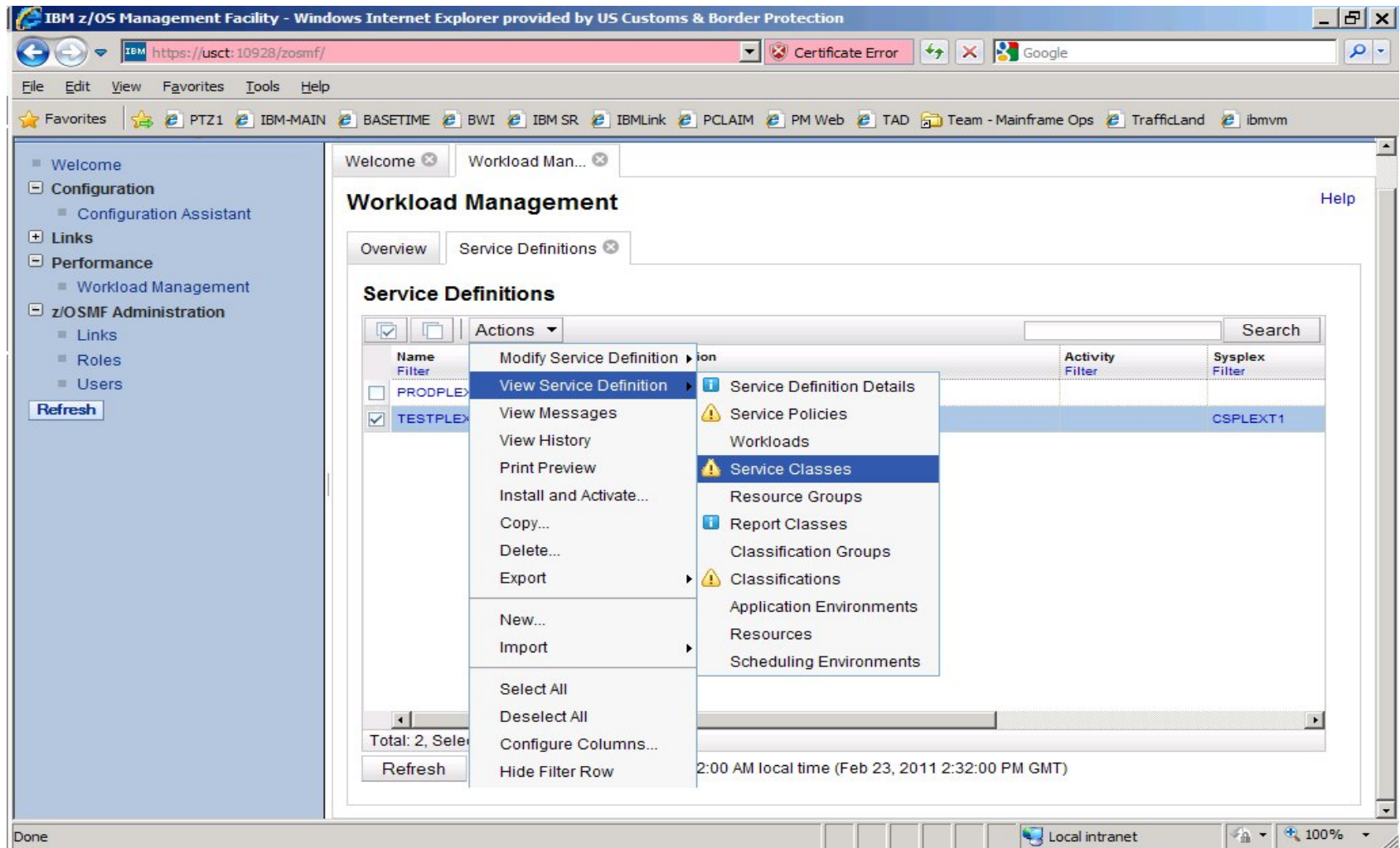
Name Filter	Description Filter	Activity Filter	Sysplex Filter	Messages Filter	Last Modified (GMT) Filter	Modified By Filter
<input type="checkbox"/> PRODPLEX	GOAL MODE - C E M O Y Z A B			Warning	Feb 3, 2011 1:49:39 PM	bzbdyty
<input type="checkbox"/> TESTPLEX (Installed & Active)	GOAL MODE FOR T, D, & J		CSPLEX1	Warning	Feb 14, 2011 10:06:15 AM	bzbdyty

Total: 2, Selected: 0

Refresh Last refresh: Feb 22, 2011 1:19:12 PM local time (Feb 22, 2011 6:19:12 PM GMT)

Transferring data from usct...

View Service Classes



The screenshot shows the IBM z/OS Management Facility - Workload Management console. The left sidebar contains a navigation tree with the following items:

- Welcome
- Configuration
 - Configuration Assistant
- Links
- Performance
 - Workload Management
- z/OSMF Administration
 - Links
 - Roles
 - Users

The main content area is titled "Workload Management" and has tabs for "Overview" and "Service Definitions". The "Service Definitions" tab is active, showing a table of service definitions. The table has columns for "Name", "Activity", and "Sysplex". The "TESTPLEX" service definition is selected, and a context menu is open over it. The menu options are:

- Modify Service Definition
- View Service Definition
- View Messages
- View History
- Print Preview
- Install and Activate...
- Copy...
- Delete...
- Export
- New...
- Import
- Select All
- Deselect All
- Configure Columns...
- Hide Filter Row

The "View Service Definition" option is highlighted, and a sub-menu is open showing the following options:

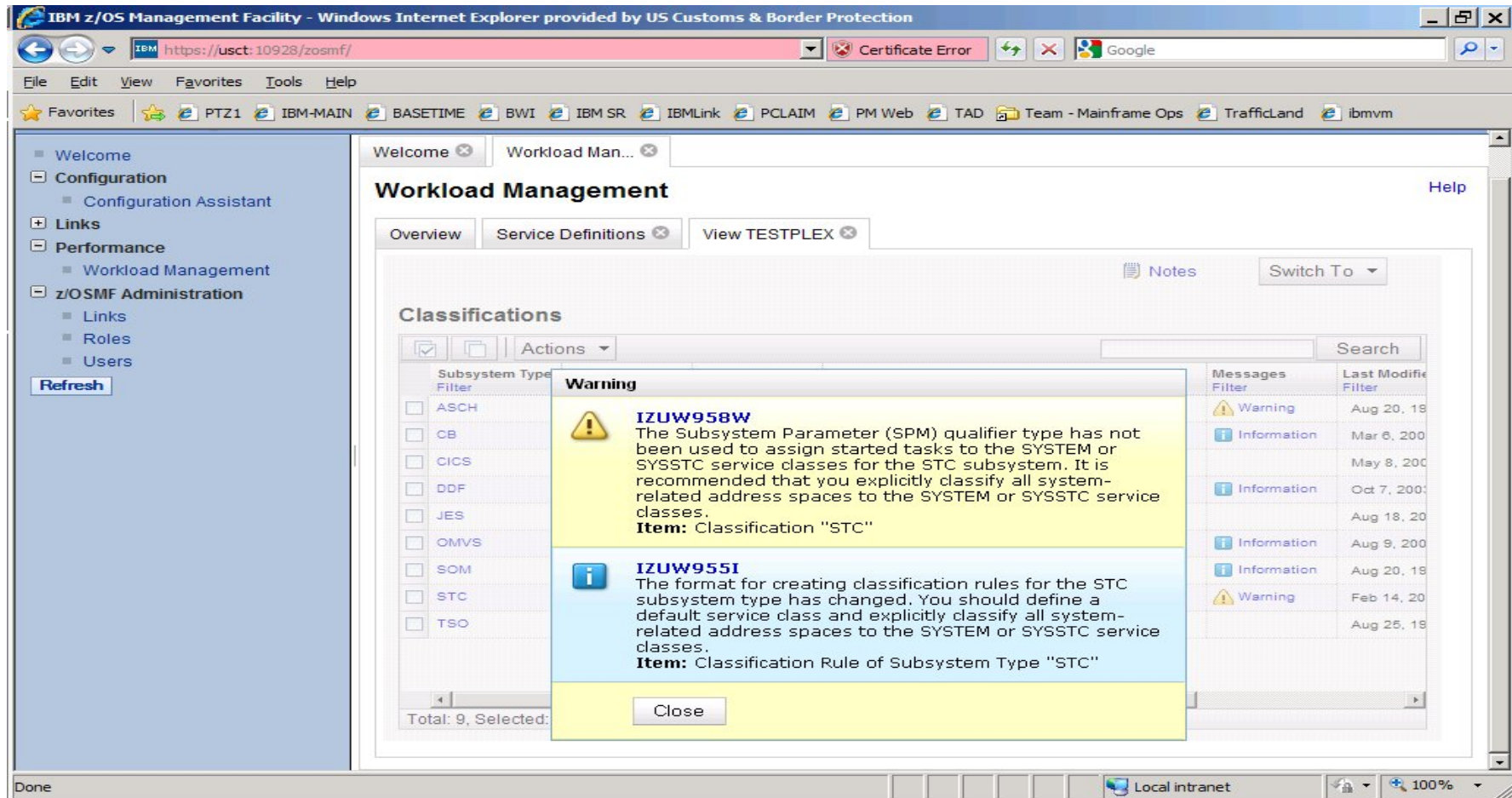
- Service Definition Details
- Service Policies
- Workloads
- Service Classes
- Resource Groups
- Report Classes
- Classification Groups
- Classifications
- Application Environments
- Resources
- Scheduling Environments

The "Service Classes" option is highlighted in the sub-menu. The table shows the following data:

Name	Activity	Sysplex
PRODPLEX		
TESTPLEX		CSPLEX1

The status bar at the bottom shows "Done" and "Local intranet".

Click on 'Warning' !



The screenshot shows the IBM z/OS Management Facility - Workload Management interface in a Windows Internet Explorer browser. The browser address bar shows the URL <https://usct:10928/zosmf/>. The interface includes a left-hand navigation pane with sections like Welcome, Configuration, Links, Performance, and z/OSMF Administration. The main content area is titled "Workload Management" and has tabs for Overview, Service Definitions, and View TESTPLEX. A "Warning" dialog box is displayed in the center, containing two messages:

Warning

IZUW958W
The Subsystem Parameter (SPM) qualifier type has not been used to assign started tasks to the SYSTEM or SYSSTC service classes for the STC subsystem. It is recommended that you explicitly classify all system-related address spaces to the SYSTEM or SYSSTC service classes.
Item: Classification "STC"

IZUW955I
The format for creating classification rules for the STC subsystem type has changed. You should define a default service class and explicitly classify all system-related address spaces to the SYSTEM or SYSSTC service classes.
Item: Classification Rule of Subsystem Type "STC"

The dialog box has a "Close" button at the bottom. In the background, a table of messages is visible, showing details like Message ID, Filter, and Last Modified date.

Switch To: Editable Version of Service Definition

IBM z/OS Management Facility - Windows Internet Explorer provided by US Customs & Border Protection

https://usct:10928/zosmf/ Certificate Error Google

File Edit View Favorites Tools Help

PTZ1 IBM-MAIN BASETIME BWI IBM SR IBMLink PCLAIM PM Web JESLOW JESMED OMVSDISC OMVSHI OMVSHOT OMVSLOW OMVSMED OMVSUSER SOMSERV STCDISC STCHI STCHOT STCIMPLX STCLOW STCMED STCMQ STCSTRVA STCUND TSOHI TSOLOW WLMHI WLMLOW WLMMED SYSTEM SYSSTC SYSSTC1 SYSSTC2 SYSSTC3 SYSSTC4 SYSSTC5 STCMED WEBSW WEBDW WEBTW SYSPCAHC

IBM z/OS Management Facility Welcome bzbddy

Log out IBM Help

Configuration Assistant Links Performance Workload Management z/OSMF Administration Links Roles Users Refresh

Workload Management Overview Service Definitions Modify TESTPLEX

Classifications Properties

* Subsystem Type: STC Service Class: Report Class: SYSPSTC

Classification Rules

ionNameGroup	Qualifier Value	Start	Report Class	Storage Critical	Region Goal
ionNameGroup	* SRMGOOD		SYSSTC	* No	* No
ionNameGroup	* WSAT		STCMED	* No	* No
ionNameGroup	* WDWL		STCMED	* No	* No
ionNameGroup	* WTST		STCMED	* No	* No
ionName	* CAHCHECK		SYSSTC	* No	* No

Total: 263, Selected: 0

Reapply Filter and Sort

OK Apply Reset Cancel

Done Local intranet 100%

WLM – Delete a report class

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★ Favorites IBM-MAIN BUN BASETIME BWI IBM SR IBMLink PCLAIM PM Web TAD Team - Mainframe Ops TrafficLand ibvm

Welcome Workload Man...

Workload Management

Overview Service Definitions Modify PRODPLEX

Notes Switch To

Report Classes

Name	Messages	Last Modified (GMT)	Modified By
ACEPIYPS		Aug 31, 2001 6:02:59 AM	bzzarye
ACEPNYAL		Nov 11, 2000 7:56:09 AM	bzzarye
ACEPNYAR		Apr 30, 2000 7:51:09 AM	bzzarye
ACEPNYAS		Apr 30, 2000 7:51:18 AM	bzzarye
ACEPNYDM		Apr 30, 2000 7:51:28 AM	bzzarye
ACEPNYNQ		Mar 9, 2000 4:05:41 PM	bzzarye
ACEPNYSN		Apr 30, 2000 7:50:55 AM	bzzarye
ACEPNYTR		Nov 11, 2000 7:56:34 AM	bzzarye
ACSCDBSR		Feb 21, 2009 8:33:48 AM	bzzarye

Total: 553, Selected: 0

Reapply Filter

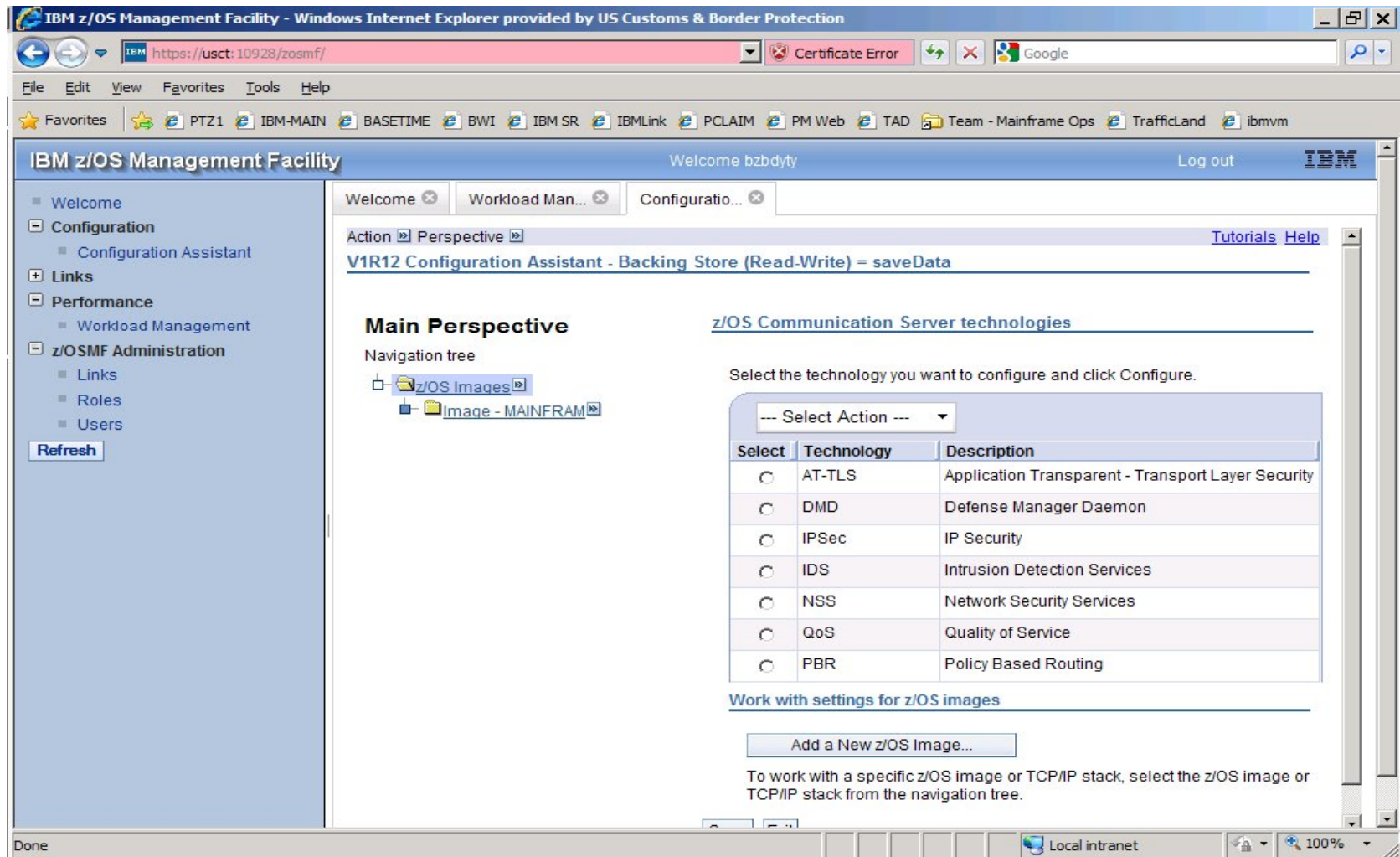
OK Apply Reset

Actions

- Cut to Clipboard
- Copy to Clipboard
- Delete...
- View Cross References
- View Messages
- New...
- Paste
- Select All
- Deselect All
- Configure Columns...
- Hide Filter Row
- Clear Filters
- Modify Sort...
- Clear Sorts

Done Local intranet 100%

Configuration Assistant



The screenshot shows the IBM z/OS Management Facility Configuration Assistant web interface. The browser window title is "IBM z/OS Management Facility - Windows Internet Explorer provided by US Customs & Border Protection". The address bar shows "https://usct:10928/zosmf/". The interface includes a navigation tree on the left with sections: Welcome, Configuration (selected), Links, Performance, and z/OSMF Administration. The main content area is titled "V1R12 Configuration Assistant - Backing Store (Read-Write) = saveData". It features a "Main Perspective" section with a navigation tree showing "z/OS Images" and "Image - MAINFRAM". To the right, there is a section for "z/OS Communication Server technologies" with a table of technologies to configure.

Select	Technology	Description
<input type="radio"/>	AT-TLS	Application Transparent - Transport Layer Security
<input type="radio"/>	DMD	Defense Manager Daemon
<input type="radio"/>	IPSec	IP Security
<input type="radio"/>	IDS	Intrusion Detection Services
<input type="radio"/>	NSS	Network Security Services
<input type="radio"/>	QoS	Quality of Service
<input type="radio"/>	PBR	Policy Based Routing

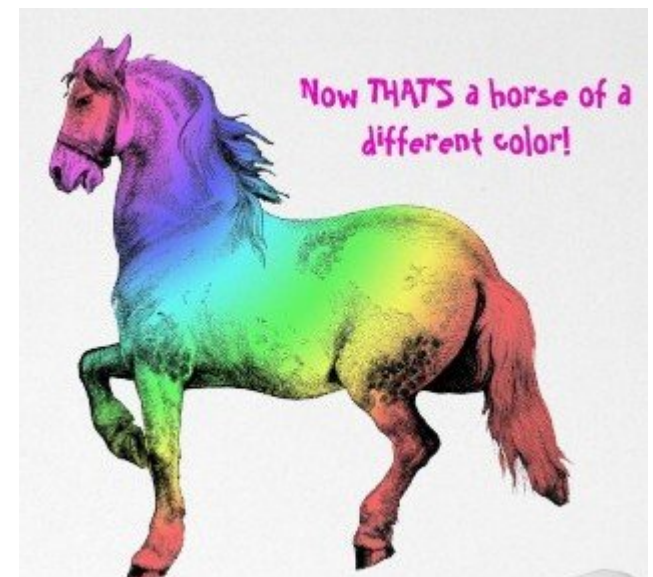
Below the table, there is a section titled "Work with settings for z/OS images" with a button "Add a New z/OS Image...". A note at the bottom states: "To work with a specific z/OS image or TCP/IP stack, select the z/OS image or TCP/IP stack from the navigation tree."

Helpful Info

- The HELP links on the screens are pretty good
- Google IBM z/OSMF brings up the IBM z/OSMF page at <http://www-03.ibm.com/systems/z/os/zos/zosmf/>
- Chapter 40 in z/OS 1.12 Implementation Redbook. (Nice info on customizing the welcome page)
- New redbook: z/OS Management Facility
 - <http://www.redbooks.ibm.com/redbooks/pdfs/sg247851.pdf>
- PSP Bucket: Upgrade ZOSMF112

Final thoughts...

- WASOEM versus z/OSMF
- My biggest problem: Being a TopSecret shop, not a RACF shop
- My second biggest problem: CIM and CEA – These two are just... **A horse of a different color**
- My wounds were largely self inflicted.
- I'm going to start fresh in November with z/OS 1.13.



Thank You!

- Thanks for your time
- Have fun with z/OSMF!
- Try to keep a sense of humor.