



Simplify your infrastructure







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Session 4. Abstract

Looking for ways to accelerate the transfer of knowledge, skills, and best practice to the next generation of technical experts? Need to maintain productivity and protect service levels? CICS Explorer and zEnterprise lead the way to infrastructure simplification. In this session, you will learn how to identify and package applications in a more flexible way, increase your utilization of zAAP processors, reduce dependency on SNA, improve the throughput of your CICSplex, and simplify the authentication of distributed CICS users. You will also see how the CICS Explorer offers a much more powerful tooling environment that can improve the productivity with a more intuitive experience.





Agenda

- IP Connectivity in CICS
- ID Propagation
- CICSPlex SM Workload Manager
- CICS Explorer
- Threadsafe optimization
- CICS Configuration Manager
- CICS Deployment Assistant



CICS Support for IPv6

- Allow for IPv4, IPv6 or host names in:
 - Resource definitions
 - Application Programming Interface
 - Systems Programming Interface
 - User Replaceable Modules
 - Global User Exits
 - Monitoring Records







IP Interconnectivity

Continuation of the CICS IP interconnectivity strategy

- Provide a new transaction IP communications protocol for connectivity between and into CICS
- Long term plan to provide CICS with IP choice for most of the CICS programming model

Enhancements to support 3270 transaction routing

- BMS, security and monitoring support
- Shippable terminals supported
- Restrictions
 - Routable(YES) on transaction definition
 - No EDF
 - No routing for APPC devices

Enhancements to Asynchronous Starts

- ATI over IPIC supported





Identity Context Propagation

- z/OS Identity Propagation initiative to provide asserted identity for end-to-end distributed security
 - Logically tie together distributed end-user identities with z/OS userids
 - Enhance the ability for z/OS applications to participate centrally in SOA solutions
 - Function will require z/OS 1.11
- ID Context Propagation allows an end user's identity to be propagated through to CICS
 - Currently, the end users' identity is lost before the request gets to CICS





Identity Context Propagation...scenarios

- Support for Inbound Web services, propagating on as Web Service provider
 - Provides support for Web Services callers
- Support for Inbound over IP Interconnectivity (IPIC)
 - Used by CICS TG when operating as a WebSphere connector
 - Will require use of JCA resource adapter
- Sysplex Support
 - CICS will propagate on over MRO and IPIC Connections only





Identity Propagation – current problem







Remedy

- Platform-architected Distributed Identity solution that subsystems participate in
- An asserted identity for end-to-end distributed security
- That logically ties together distributed end-user identities with userids on the host
- An Identity Context Reference that flows in a trusted way
 - X.500 distinguished name of end-user
 - X.500 DN of original registry
 - Optional SAF userid



Identity Propagation – proposed solution







Workload Management and CICSPlex SM

- Sysplex-optimization to significantly reduce workload batching effects
 - Exploitation of z/OS coupling facility
 - "Near real time" Sysplex-wide focus on target region status
 - No impact to "non-optimized" WLM
 - Optimized WLM routing enabled by configuring a Region Status Server
 - Uses CF Data Table to hold Region Status information
 - SOS, MaxTask, System or transaction dump in progress, Current Tasks?
 - Shared by all routing regions (in the Sysplex)
- Percentile goals
 - CICSPlex SM WLM support for percentile goals
- Support in CICSPlex SM for all new resources, statistics, etc



CICSPlex SM WLM: Optimized versus Non-optimized Routing





- Non-optimized Routing
 - 27 CICS regions on 3 LPARs
- Optimized Routing
 - 9 CICS regions on 3 LPARs
- Comparison
 - Workload is 10K started transactions
 - Number of tasks in each region measured every 10 second interval
- Results
 - Non-optimized environment shows "batching effects
 - Optimized results shows smoother distribution of work and higher throughput





Java and JVMServers

JVM implementation in CICS continues to evolve

 JDK 1.1.8, HPJ and Hotpooling, IBM Persistent Reusable JVM, Continuous mode, Java 5, Java 6, ...

JVMs in CICS TS V2 and V3

- Single task, serial reuse
- Large memory footprint
- Excellent isolation characteristics

JVMServers in CICS TS V4.1

- Multiple tasks (threads) in a JVM concurrently
- Larger capacity
- Risk of collateral damage
- Not for customer application use in V4.1





JVMPool Architecture - CICS TS V3 (and V2)

Single CICS task dispatched into a JVM in the pool at a time. So concurrent task count limited to the number of JVMs that can fit in the region.

Result is about 20 tasks/JVMs concurrently in each region.







JVMServer Architecture

Can attach multiple pthread/T8/CICS tasks to the JVM at the same time.

Therefore serve more requests using a single JVM.

Result is 100s tasks per region.





IBM CICS Explorer[™] - The New Face of CICS







The changing face of CICS tooling for multiple interfaces

Previously...

Now ...



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CICS Explorer - Program Definition editor - CICSPlex SM

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CICS Explorer - Program Definition editor - CICS CM

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CICS Explorer - No "magic" values - File definition editor



CICS Explorer - Editor validation







CICS PA plug-in to the CICS Explorer

- Provides numerous methods of visualizing historical transaction performance summary data
- Access to performance data summaries and reporting scenarios using CICS PA created ...
 - CSV files from SMF 110 performance data
 - CSV files or database (DB2) from HDB performance data
- Integrates with the strategic CICS Explorer and other tooling plug-ins
- Evolutionary and responsive solution







CICS and threadsafe (OTE) – what is it ?

- Threadsafe allows introduction of extreme parallelism into CICS application serving of legacy workloads
 - Significant CPU reduction is possible which allows cost reduction for existing applications
 - This cost savings thru technology should also be positioned as a means to introduce new workloads onto CICS at reduced TCO
 - These new workloads can be managed more efficiently using tools targeted for both old and new workloads running under CICS
 - These multiple benefits will allow the driving of new workloads to System z leveraging new SOA capabilities of CICS
 - This is part of the overall System z strategy to protect client application assets while improving the operational efficiency of the platform





Customer Threadsafe experiences

Danske Bank

- Threadsafe conversion MIPS saving of about 300 MIPS during the peak processing period – directly attributed to reduced TCB switching
- Customer looking forward to CICS Transaction Server Version 3.2 where WMQ, local File Control, and VSAM RLS are threadsafe, promising even greater improvements

"Large financial services organization in the US"

- Estimated \$32M per year in savings based on data canter chargeback reduction
- Estimated 10-15% of their total available savings
- Public domain information, delivered at Impact 2008
- The above is based on 1 non-dedicated systems person for 6-7 months without using tools
- Can easily cost-justify tools to speed the process
- Savings may be difficult to quantify beforehand
- "Major US bank"
 - Saved 700 MIPs by making one major application threadsafe
- Saving we have seen with other similar projects
 - CICS CPU savings of 2-15%
 - Reduced VSAM Transparency product overhead by over 12%



CICS PA finds the best candidates for threadsafe optimization

Problem

 Identifying the best candidates for threadsafe optimization and knowing when to stop you've achieved your goals

Solution

 Performance summary, list, and list extended reports plus metrics like TCB use by transaction, dispatch and CPU time, number of TCB switches and change mode delay time and Getmain usage help zeroin on the programs with most to gain



Value

 CICS PA easily helps improve CICS threadsafe performance, validate savings and track service levels



Problem

- Migrating large number of complex CICS applications without retesting entire portfolio
- Identifying suitable candidates for thread-safe optimization

Solution

- CICS IA identifies programs most sensitive to CICS API changes enabling more focussed testing
- CICS IA shows nonthreadsafe programs and highlights what's needed to optimize them



Value

- Helps customers under time pressure to migrate to latest versions with reduced risk
- Even without deep CICS skills, you can optimize your portfolio and benefit from threadsafe

CICS PA - Comparison views

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CICS PA - Integration with CICS IA













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CICS Explorer & CICS Tools: Putting it all Together







CICS administration problems solved using CICS CM

- Working with multiple CSDs
- Working with CSD files and CICSPlex SM DREPs
- Migrating changes between environments
- Delegating and approving changes
- Changes across LPAR boundaries
- Backout
- Audit compliance
- Cleanup and analysis
- Comparisons and exception analysis
- Cold start analysis



Installation

	~	Install			
Version					
/cics/up		Properties			
demos\					
2.1.0.200907010230		Add Site Manage Sites. Refresh			
	Version (cics/up: demos\ 2.1.0.200907010230	Version /cics/upi demos\ 2.1.0.200907010230			

CICS CM Explorer plug-in installs through the update site mechanism in the CICS Explorer





CM - Configurations, Lists, Groups





ab BEPM	N/A				-		Status		
BEPM			C	N/A	16-Jun-2009 1		ENABLED		
· · · · · · · · · · · · · · · · · · ·	N/A		CBMCMNDS	N/A	03-Apr-2009 1	BEP COMMAND	ENABLED		
FC02	N/A	YEAH		N/A	07-May-2009 1		ENABLED		
F009	N/A	New.		N/A	07-May-2009 1		 ENABLED 		
WXYZ	N/A	Open		N/A	28-May-2009 1	changes by Satish	 ENABLED 		
		Remove from Group							

Can open a creation wizard from different paths.

Within a definitional view select the "New..." menu.

Select a group and select an option from the "New..." menu.



CM - Creating, editing and deleting a resource definition

🚸 New Transac	tion Definition	_ 🗆 🗙
Create Transac	tion Definition	5
Data Repository: Resource Group:	CTS41CSD BEP	Browse
Name: Description: Program Name: I Open editor		
?	Einish	Cancel

Different resource types have slightly different creation wizards.

Only the basic attributes need to be entered at this point. Others are defaulted.





<u>CM - Creating editing</u> and deleting a resource definition

ansaction	n Definition	n (DEMO)					
🖡 Ove	erview	1					0
Basic	DEM						
Name:	DEMO	Description	:				
Version:	od	Created:	00.3-1-0	000.1/	0.15.05		
l♥ Enabl	eu	Changed:	09-301-2	009.13	5:15:05		
Details		500		C 1	DELIGIOST	_	
Initial Pro	gram:	FOO	Pro	onie:	DFHCICST		
Task Wor	rk Area Siz	ze: 0					
Storage	2						
Clear	task-lifet	ime storage o	n release	to pro	tect sensitiv	/e data	
Task	ife-time st	torage can be	e located a	above	16MB Line		
🗹 Isolat	te user-ke	y task-lifetim	e storage	from o	ther tasks'	user-key pr	ograms
🗌 Obtai	n task sto	rage in CICS-	key				
User Da	ita						
1:		2:	3	3:]	
verview	Remote	Termination	Runtime	Alias	Recovery	Attributes	

Once create completes the resource is opened in an editor, where further changes can be made.

The resource has been created at this point.

These editors are the same as those used for the CICS Explorer, they inherit the validation and embedded help framework.





CM - History

Display by date groupings-

🗐 History 🛿		l □ □								
Resource History for FOO9 from earliest to latest entry										
Revision Time	Resource Name/After	Resource Type/Before	Group	User Name	Command	Change P	Scheme			
🖃 🔂 Today										
🗄 🖯 🟮 2009/07/09 13:43	F009	TRANDEF	BEP	CICSUSER	UPDATE					
🗄 🔂 Older Than This Month										
🗄 🛛 🟮 2009/05/07 17:52	FOO9	TRANDEF	BEP	CICSUSER	CREATE					

Sort by columns by clicking on column header

🗐 History 🛛						🔁 🗲 🤣 🕤				
Resource History for BEP from 2009/04/09 13:07:41 to latest entry										
Revision Time	Resource Name/ 🔺	Resource Type/Before	Group	User Name	Command	Change P	Sch 🔼			
🕀 😳 2009/05/27 09:31:41	Α	ATOMDEF	BEP	CICSUSER	DELETE					
🗄 🛛 🟮 2009/05/27 09:31:37	A	ATOMDEF	BEP	CICSUSER	CREATE					
😟 😳 2009/07/09 13:18:35	DEMO	TRANDEF	BEP	CICSUSER	DELETE					
🗄 🖓 🟮 2009/07/09 13:15:28	DEMO	TRANDEF	BEP	CICSUSER	CREATE					
🗄 🛛 🟮 2009/05/07 17:53:37	FC02	TRANDEF	BEP	CICSUSER	CREATE					
🗄 😳 2009/07/09 13:43:41	F009	TRANDEF	BEP	CICSUSER	UPDATE					
🗄 🛛 🟮 2009/05/07 17:53:19	F009	TRANDEF	BEP	CICSUSER	CREATE					
🗄 😳 2009/05/18 14:40:28	F0000	TCPDEF	BEP	CICSUSER	CREATE					
🗄 😳 2009/06/05 15:27:20	3000	CONNDEF	BEP	CICSUSER	DELETE					
A 🙃										



CM - History

Select Filters to apply to history entries

		🖻 🔄 🗞 🗸						
	Q	🗐 Set date range						
Sd	Name	Select Filter(s)						
	Туре	Remove Filters						
	Group							
	Command			Once t	ilters have	e been		
	User ID			aalaata		n nonulat	•	
	Change Package			Selecte	eu you cai	n populat	e	
	scheme the values choose "equals"							
				or "not	equals" a	and apply	<i>íthe</i>	
				filtoro	• /			
				IIIIEI S				
🗐 н	istory 🛛		💼 🔄 🤣 Command:	I DELETE	🗙 Name: (==		🕽 🗶 🗸 🗖 🗖	
Resou	rce History for BEP fro	m 2009/04/09 13:07:41 to la	atest entry					
100							1	
Rev	ision Time	Resource Name/After	Resource Type/Before	Group	User Name	Command	Change P	





CM - History

Set Date range to apply to history entries

₩																X
Set I	Date date r	e Ra ange	nge to a	pply t	to His	tory	entries	s.						(
From OE	n Earlies Gelect	t enti a dat	ry te:						To -	atest elect	entry a dat	/ :e:				
	Mon 30 6 13 20 27 4) 31 7 14 21 28 5	Ap 1 8 15 22 29 6	ril 20 Thu 2 9 16 23 30 7	5009 Fri 3 10 17 24 1 8	Sat 4 11 18 25 2 9	> 5 12 19 26 3 10			Mon 29 6 13 20 27 3) 30 7 14 21 28 4	Ju 1 8 15 22 29 5	ly 20 Thu 2 9 16 23 30 6	Fri 3 10 17 24 31 7	Sat 4 11 18 25 1 8	> 5 12 19 26 2 9
?	09/0	04/20	09		13:0	7:41	v			09/0	07/20	09 OK		14:1	7:46 Can	cel



Select the range using the dialog box

This range will then be used to limit the results displayed to changes within these times





CM - Searching

You can drive the search dialog from the toolbar

Explorer	Edit	Operations	Administration	RTA	WLN
: 📬 -	H	1			
Cont	figurati	ons Search De	efinitions		

Configuration	s 🛙			
Name		CSD/Context		
CMS41CSD		CICSTOOL.CPS	M41.CICSTS4	
CTS41CSD		CIESTOOL CIE	STS41.DFHCSD	
IYDZZ32F	Show	All Resources	32F.DFHCSD	
IYDZZ41F	Clean	Up		
TOOLPLX	Seard	h	Search	
			Search Files	
			Search Prog	rams
			Search Tran	sactions

Or from one of the search options on a configuration or group



CM - Searching

From the search dialog you can specify name, type, configurations(s) and groups within a particular configuration

Search Definitions	
Specify search criteria	
Search Resource Name: * Resource type: * Configuration(s) CTS41CSD	Filter
Group(s) BEP Choose	





CM - Searching

* Search Definitions		
Search Definitions Specify search criteria		S
Search Resource Name: * Resource type: File Definitions Configuration(s) CTS41CSD Choose Group(s) BEP	 Filter 	Last modification agent is • ODREPAPI ODREPBATCH ON_A
(Choose)		OK Cancel

If a resource type is specified further filtering can be done on attribute values







CM - Clean Up – Specific Searches

ame		CSD/Conte:	xt		
CMS410	SD	CICSTOOL.	CPS	M41.CICSTS4	
CTS41C	SD	CICSTOOL.	CIC	STS41.DFHCSD	
DIYDZZ3	2F	CTS320P4.I	YDZ	Z32F.DFHCSD	
IYDZZ41F CICSIAD.IYDZZ		41F.DFHCSD			
TOOLP	Show Al	Resources			
	Clean U	p	۲	Show Resource	es With Unique Names
	Search		•	Show Duplicate Show Orphane Show Shared R Show Orphane	Resources by Name and Type d Groups esources d Resources

Some searches to aid in resource and CSD clean up have been provided

Some specific searches on certain resource types: LSRPool Program

CB	New	N/A
CB	Open	N/A
CB -	open	N/A
CB	Install	N/A
CB	Add to Group	N/A
CB	Remove from Group	N/A
CB -		N/A
СВ 🕽	🕻 Delete	N/A
CB	Find 🕨	Similar Resources
CBMF	CX53 N/A	Transactions referencing Program
CDMD	CV60 NI/A	NI/A



You can associate a

CMCI or a CICSPlex

SM Data connection

connection, to allow

operational resources

alongside use of CM

with your CM

management of

CM - Operational Definitions

* Preferences				
type filter text	Connections			$\varphi \circ \varphi \circ \bullet$
Connections ⊕ Help ⊕ Install/Update	Connection Type: Cont Name: CM Location Host name: Port number: Authentication User ID: Password: Saved p difficult CICS Connect Name Vame Old data	figuration Manager 2. 1 Connection WINMVS2E.HURSLEY. 8990 M KAT ••• basswords are stored on , but not impossible, for tion mection a connection to 4. 1	IBM.COM IBM.COM Your computer in a file that is an intruder to read. Type CICS Management Interface CICSPlex SM Data Interface Restore De	New Connect Delete
0			ОК	Cancel

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CM - Operational Definitions

Iransaction	Definitions	📑 Pr	ogram Defini	tions 📑	File D	efinitions 🛛	📑 TD Queue	Definitions	
CNX0211I Cont	ext: BEP. Re	source	FILEDEF. 4	records o	ollecte	d at 09-Jul-2009	14:48:19		
Name	Name Version				0	reate Time	Ch	ange Time	De
ASILLY		1			N/	A	01-	Jul-2009 12:49:5	8 fdk
FC02		New			N/	A	08-	May-2009 09:10:	52
TESTDIS		Open			N/	A	11-	May-2009 12:20:	:05
UNITTEST	UNITTEST		Install			N/A 11-May-2009 17:10:			:33
Add to Group								<u>ه</u> .	
Remove from Group			Group	<u> </u>				Ø.,	
CNX0211I Cont	CNX0211I Context: TOOLPL				- cords collected at 09-Jul-2009 14:48:01				
Region	Name	💢 D	elete		tatus	Add	Browse	Delete	Read
CICSC141	ACCTFIL	F	ind	•		ADDABLE	NOTBROW	DELETABLE	READABLE
CICSC141	ACCTFIL@	\neg	ENABLED	CLOSE	5	ADDABLE	NOTBROW	DELETABLE	READABLE
CICSC141	ACCTNAM	~	ENABLED	OPEN		NOTADDA	BROWSABLE	NOTDELET	READABLE
CICSC141	ACCUNTDB	 ✓ 	ENABLED	OPEN		NOTADDA	NOTBROW	NOTDELET	READABLE
CICSC141	ACINUSE	~	ENABLED	CLOSE	0	ADDABLE	BROWSABLE	DELETABLE	READABLE
CICSC141	BRQFILOD	~	ENABLED	CLOSE	0	ADDABLE	NOTBROW	NOTDELET	READABLE
CICSC141	CIUCNTL	~	ENABLED	CLOSE	0	ADDABLE	BROWSABLE	DELETABLE	READABLE
CICSC141	CIUINT1	~	ENABLED	CLOSE	0	ADDABLE	BROWSABLE	DELETABLE	READABLE
CICSC141	CTUTNT2	~	ENARLED	CLOSE	n –		BROW/SABLE	DELETABLE	READARIE

This enables you to manage any regions connected to the WUI server and install CICSPlex SM definitions into those regions

Accelerating return on your CICS investments IBM CICS Deployment Assistant for z/OS

- New Deployment perspective integrates with CICS Explorer
- Discovery, Modelling and cloning CICS Systems
- Topology Visualization
- Automated creation, deployment, customization, and control of CICS regions
- Edit files, submit JCL, view output
- Simplify tasks, save time, and reduce risk
- More info at http: ibm.com/software/htp/cics/deployment/
 - Features and benefits, data sheet, announcement letter ...



New!







Visualization - Sysplex





Visualization - CICSPlex

Navigate from CICSplex to Managed region, CMAS, and WUI

IBM CICS Explorer			_
lorer Edit Project Search Window	Help		
1• 🖬 😫 🕭 🐝 🔗 •		E	🖞 📑 CICS DA 🚯
SICSEXP2: CICSplex		IYCWEFD1: Region 🖾	
CICSplex	0	B Managed CICS Region	
▼ Groups	▼ Begions	▼ Details ▼ Start Policy	
	New ApplID MAS Open Edit IYCWEFD1 IYCWEFD1 IYCWEFD1 IYCWEFE1 IYCWEFE1 IYCWEFE1 IIYCWEFE1 IYCWEFF1 IYCWEFF1 IIYCWEFF1 IIYCWEFF1	Applid: IYCWEFD1 Job: IYCWEFD1 Image: Batch Job Program: DFHSIP Version: 640 Data set name:	
⊕ ಕ್ಷೌ LMASGRP ಕ್ಷೌ NICED	IYCWEFF2 IYCWEFF2 IYCWEFW1 IYCWEFW1	:MS: Start Command:	on
ROUTERS1		CICSPlex System Management	
▼ EMASes	WebUser Interface servers	CICSplex: CICSEXP2 CICS to CICS	
CALICONFOR (NP)	Den Hirkwerkt Open	CMASI: IYCWEPCM AppID MAS MAS: IYCWEPD1 Inclone the CICS region use the: Inclone the CICS region with the CICS region wit	Open 000000000000000000000000000000000000
CICSplex		CICS Region	
CMAS	Ĉ	🖥 Web User Interface	
tails : IYCWEFCM Job: IYCWE m: EYU9XECS Version: 660 MQTEST <u>MV2C</u> IYCWEFCM CPSM Version: 0410	✓ Start Policy FCM ④ Batch Job Data set name: ⑤ Started Task Start Command:	Applid: IYCWEFW1 Job: IYCWEFW1 Program: DFHSIP Version: 660 User: MQTEST <u>MVS Image:</u> MV2C <u>Data set name:</u> MAS: IYCWEFW1 Started Task Start Command: Start Region Stop Re	aion
	Start Region E Stop Region	■ CICSPlex System Management	
ICSEXP2 (MP) UMMY907 (MP)	Open ApplID MAS If YCWEFD1 IYCWEFD1 IYCWEFD1 IYCWEFE1 IYCWEFE1 IYCWEFE1	Host Address: winnvs2c.hursley.ibm.com <u>CICS Management Interface:</u> 27066 <u>CICSPlex SM Data Interface:</u> 27056 <u>CICSplexes</u>	• Groups
	IYCWEFF1 IYCWEFF1 IYCWEFF2 IYCWEFF2 IYCWEFW1 IYCWEFW1	CICSEXP2 CICSEXP2	ଶିଞ୍ଚ FRED ଶିଞ୍ଚ ROUTERS1



Visualization – MVS image







Visualization – Managed and Unmanaged regions

	MV2C: MVS Image	📋 IYCWEED 1: Region	📋 IYCWEGF1: Regio	n 📋 IYCWEFF2: F	Region 🛛		
1	B Managed CI	CS Region				C	2
	▼ Details		▼ St	art Policy			
Clone	Applid: IYCWEFF2 Program: DFHSIP User: MQTEST <u>DB2:</u> IMS:	Job: IYCWEFF2 Version: 660 <u>MVS Image:</u> MV2C <u>MQ:</u>	● B ● S 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	atch Job Data set name: arted Task tart Command: s IYCW	/EFF2	Browse	
rogion	 CICSPlex System 	Management					
region	CICSplex: CICSEXP2 CMAS: IYCWEFCM MAS: IYCWEFF2 To Clone the CICS regio	n use the: Wizard	CICS to CICS AppID TYCWEFE1 TYCWEFF1	MAS YCWEFE1 YCWEFF1	Open	▼ Groups	
		IYCWEED 1: Region	IYCWEGF1: Region	IYCWEFF2: Regi	on 🗍 IYCWEGD1: R	legion 🛛 🗄 IYCWEFFS: Region 🛛	3 » <u>1</u>
	CICS Region	Unmanaged	CICS Region				0
		▼ Details		▼ St	art Policy		
		Applid: IYCWEFFS Program: DFHSIP User: MQTEST <u>DB2:</u> IMS:	Job: IYCWEFFS Version: 660 <u>MVS Image:</u> MV2C <u>MQ:</u> MV2C	● B [○ S 2	atch Job Data set name: tarted Task Start Command:	Browse]
				۵ 🖊	tart Region 🔳 Stop Regi	ion	
		CICSPlex System The CICS Region is not p Add to CICSplex	Management part of a CICSplex.				
Add to CICSplex		CICS Region					





Clone a CICS Region	Confirm values for the new data sets which will be created on finish Confirm the values for the new data sets
Specify attributes and start policy for your new region, based on those	
from IYCWEFF2	Data sets DD Name Share Existing Data set New Data set
New CICS Applid: IYCWEFFA New CICS Sysid: EFFA New MAS Name: IYCWEF A	DFHXRMSG MQTST.SUBSYS.IYCWEFF2.DFHXRMSG MQTST.SUBSYS.IYCWEFF4.DFHXRMSG DFHEJDIR MQTST.SUBSYS.IYCWEFF2.DFHEJDIR MQTST.SUBSYS.IYCWEFF2.DFHEJDIR DFHGCD MQTST.SUBSYS.IYCWEFF2.GCD MQTST.SUBSYS.IYCWEFF4.GCD
New Description: Regination International Regination Reginatio Regination Regination Reg	IYCWEGF1: Region I IYCWEFF2: Region I IYCWEGD1: Region I IYCWEFFS: Region I IYCWEFFA: Region II IYCWE
Specify the start policy and value for your new CICS region. Bri Data Set: Member Nan Started Ta YCWEFFa pecify new names	 Details Start Policy Applid: IYCWEFF
Vew dataset ames chosen omatically - edit if required	CICS Region CICS Region CICS Region System Log System Log Z/OS Command Console X Properties System Z/OS Cloning of CICS region IYCWEFF2 to create CICS region IYCWEFFA completed successfully. The following data sets were allocated and are ready to be used by the new CICS region: WOTST SUBSYS LYCWEFFA DUNDA
Console view shows all loning actions and list of	MQTSI.SUBSYS.IICMEFFA.DUMHA MQTSI.SUBSYS.IYCWEFFA.DUMPB MQTSI.SUBSYS.IYCWEFFA.GCD MOTSI.SUBSYS.IYCWEFFA.DFHLRO

Г





z/OS Command Line



CICSPlex SM Setup CICSPlex SM Setup CICSPlex SM Setup CICSPlex SM Configuration CICSPlex SM Config		Cheat Sheets 🛛		
Cate Sheet Sheet Selection Cheat Sheet Selection Cheat Sheet Selection Cheat Sheet Selection Cheat Sheet Solection Cheat Sheet Sole	nat Shoots	CICSPlex SM Setup		
Select the cheat sheet from the list: Select a cheat sheet from the list: CICS Deployment Assistant CICS Deployment Assistant CICS Deployment Assistant CICS Deployment Assistant CICS ST 4.1 from CICS TS 3.x CICS Deployment Assistant CICS ST 4.1 from CICS TS 3.x CICS Deployment Assistant CICS ST 4.1 from CICS TS 3.x CICS Deployment Assistant CICS ST 4.1 from CICS TS 3.x CICSS ST 4.1 from CICS TS 3.x CICS ST 5.1 Uses, CICk to open the Upgrading sectors of the CICS Information Center CICS ST 3.1 Uses, CICk to open the Upgrading from CICS TS 3.1 Uses, CICk to open the Upgrading from CICS TS 3.1 Uses, CICk to open the Upgrading from CICS TS 3.1 Uses, CICk to open the Upgrading from CICS TS 3.1 Uses, CICk to open the Upgrading from CICS TS 3.1 Uses, CICk to open the Upgrading from CICS TS 3.1 Uses, CICk to open the Upgrading from CICS TS 3.1 Uses, CICk to open the Upgrading from CICS TS 3.1 Uses, CICk to open the Upgrading from CICS TS 3.1 Uses, CICk to open the Upgrading from CICS TS 3.1 Uses, CICk to open the Upgrading from CICS TS 3.1 Uses, CICk to open the Upgrading from CICS TS 3.1 Uses, CICk to open the Upgrading from CICS TS 3.1 Uses, CICk to open the Upgrading from CICS TS 3.1 Uses, CICk to open the Upgrading from CICS TS 3.1 Uses, CICk to open the Upgrading from CICS TS 3.1 Uses, CICk to open the Upgrading from CICS TS 3.1 Uses, CICk to open the Upgrading from CICS TS 3.1 uses, CICk to open the Upgrading from CICS TS 3.1 uses, CICK to open the Upgrading from CICS TS 3.1 uses, CICK to open the Upgrading from CICS TS 3.1 uses, CICK to open the Upgrading from CICS TS 3.1 uses, CICK to open the Upgrading from CICS TS 3.1 uses, CICK to open the Upgrading from CICS TS 3.1 uses, CICK to open the Upgrading from CICS TS 3.1 uses, CICK to open the Upgrading from CICS TS 3.1 uses, CICK to open the Upgrading from CICS TS 3.1 uses, CICK to open the Upgrading from CICS TS A uses, CICK to	Cheat Sheet Selection	Deploy CICSPlex SM Prepare the z/OS System Load CICSPlex SM Configuration Dataset Prepare CICSPlex SM	Cheat Sheets X Upgrade to CICS TS 4.1 from CICS TS 3.x	7
b) default, the CLSs rest SM component of CLSS instances in production of the CLSS regioner of the CLSS information Center in production of the CLSS information Center if CLSPRes XM is no toben previously used, additional oost through the necessary checks. Note that these checks should be proformed on each MIS syst unning CLSPRes XM. Note that these checks should be proformed on each MIS syst unning CLSPRes XM. There are some MVS Pamilo related settings that is base to adveck that those each is unning CLSPRes XM. Image to checks should be proformed on each MIS syst unning CLSPRes XM. Image to checks should be proformed on each MIS syst unning CLSPRes XM. Image to checks should be proformed on each MIS syst unning CLSPRes XM. Image to checks should be proformed on each MIS syst unning CLSPRes XM. Image to check should be proformed on each MIS syst unning CLSPRes XM. Image to check should be proformed on each MIS syst unning CLSPRes XM. Image to check should be proformed on each MIS syst unning CLSPRes XM. Image to check should be proformed on each MIS syst unning CLSPRes XM. Image to check should be proformed on each MIS syst unning CLSPRes XM. Image to check should be proformed on each MIS syst unning CLSPRes XM. Image to check should be proformed on each MIS system program the required changes that are suitable for your installation. Image to check should be proformed in a provin	Select the cheat sheet to open: Select a cheat sheet from the list: CICS Deployment Assistant CICSPlex SM Setup 	z/OS Configuration • Introduction	 Review System requirements Upgrading CICS: Information Center documentation Definitive information on upgrading CICS is found in the CICS Information Center. This step will open the Upgrading sections of the CICS Information Center. Note: You will require access to the internet for the CICS Information 	
tasks may be outstanding. The first part of this Cheat Sheet i through the necessary Ordeds. Note that these checks should be performed on each MVS syst running CLCSPlex SM There are some MVS Parmillo related settings that should be through the necessary to now with your z/OS systems program the required dranges that are suitable for your installation. If ick to Begin Prepare the Workspace To execute these tasks, you will be using the z/OS Command CLCS DA perspective and for a previous task, remove the redundant MMSUBSYS option if present. Open the CLCS DA Open the z/OS Command view Connect to CLCS DA If the zivo S Command view Connect to CLCS DA If the zivo S Command view If you are upgrading from CLCS TS 3.1, review the CLCS A PELL Doring. CLCS TS 3.1, review the CLCS APPLIDS must be unique within the sysplex. If you are upgrading from CLCS TS 3.1, review the CLCS DA will be will alke you through the steps to activate the DA connection Open the z/OS Command view Connect to CLCS DA If you are upgrading from CLCS TS 3.1 and are using the SEC—YES option. The there will add the park option. If you are upgrading from CLCS TS 3.1 and are using the SEC—YES option, then the new ST options XFHS and XES should be reviewed as new security checks may occur. Review the JWPROPCILEDIR option. Review the JWPROPCILEDIR option.		By default, the CICSPIex SM component of CICS Transaction installed alongside the CICS component using SMP/E. This Che assumes that this has been completed successfully. If CICSPIex SM has not been previously used, additional post	Center to be opened. For CICS TS 3.1 Users, Click to open the 'Upgrading from CICS TS 3.1' section of the CICS Information Center	• [
 There are some MVS Parmilor related settings that should be r CSD Considerations Considerations Conset of CICS DA If the 'z/OS Command'		tasks may be outstanding. The first part of this Cheat Sheet through the necessary checks. Note that these checks should be performed on each MVS sys running CICSPlex SM	For CICS TS 3.2 Users, Click to open the 'Upgrading from CICS TS 3.2' section of the CICS Information Center Redefine CICS Local and Global catalogs	•
 Prepare the Workspace To execute these tasks, you will be using the z/OS Command CICS DA perspective and have an active CICS DA connection Open the CICS DA perspective Open the z/OS Command view Connect to CICS DA If you are upgrading from CICS TS 3.1, review the CICS ASPLID option. CICS APPLIDs must be unique within the sysplex. If you are upgrading from CICS TS 3.1 and are using the Select a cheat sheet from a file: If you are upgrading from CICS TS 3.1 and are using the system the terms to connection is not activity will take you through the steps to activate the DA connection Enter the URL of a cheat sheet: Enter the URL of a cheat sheet: 		There are some MVS Parmlib related settings that should be re using CICSPlex SM. These tasks are to check that those settir It may be necessary to work with your z/OS systems program the required changes that are suitable for your installation.	CSD Considerations Review SIT The CICS SIT options/overrides need to be reviewed. If you are upgrading from CICS TS 3.1, remove the	
Open the z/OS Command view If you are upgrading from CICS TS 3.1, review the CICS APPLID option. CICS APPLID smust be unique within the sysplex. Select a cheat sheet from a file: If the 'z/OS Command' view indicates 'Only available with a De Assistant connection' then the CICS DA connection is not activitied take you through the steps to activate the DA connection. If you are upgrading from CICS TS 3.1 and are using the SEC=YES option, then the new SIT options XFHS and XRES should be reviewed as new security checks may occur. Enter the URL of a cheat sheet: Review the JVMPROFILEDIR option. The default JVMPROFILE option has changed, based upon the value of the new CICS_HOME option.		 Prepare the Workspace To execute these tasks, you will be using the z/OS Command CICS DA perspective and have an active CICS DA connection Open the CICS DA perspective 	redundant MNSUBSYS option if present. If not already removed in a previous task, remove the WebSphere MQ connection program (CSQCPARM or DFHMQPRM) INITPARM option.	
Select a cheat sheet from a file: If the 'z/OS Command' view indicates 'Only available with a De Assistant connection' then the CICS DA connection is not activities will take you through the steps to activate the DA connection' If you are upgrading from CICS TS 3.1 and are using the SEC=YES option, then the new SIT options XFHS and XRES should be reviewed as new security checks may occur. Center the URL of a cheat sheet: Review the JWIPROFILEDIR option. The default JWIPROFILE option has changed, based upon the value of the new CICS_HOME option.		Open the z/OS Command view ▼ Connect to CICS DA	If you are upgrading from CICS TS 3.1, review the CICS APPLID option. CICS APPLIDs must be unique within the sysplex.	
Enter the URL of a cheat sheet: Review the JVMPROFILEDIR option. The default JVMPROFILE option has changed, based upon the value of the new CICS_HOME option.	Brov	If the 'z/OS Command' view indicates 'Only available with a De Assistant connection' then the CICS DA connection is not activities will take you through the steps to activate the DA connection	If you are upgrading from CICS TS 3.1 and are using the SEC=YES option, then the new SIT options XFHS and XRES should be reviewed as new security checks may occur.	
	O Enter the URL of a cheat sheet:		Review the JVMPROFILEDIR option. The default JVMPROFILE option has changed, based upon the value of the new CICS_HOME option.	





Summary

- Revitalize your infrastructure ...
 - Simplify network set-up moving to IP
 - Manage distributed security with ID Propagation
 - Improve workload balancing with CICSPlex SM
 - Reduce skills costs with CICS Explorer
 - Save money with Threadsafe optimization
 - Ease management burden with CICS Configuration Manager
 - Discover and clone complex environments with CICS Deployment Assistant

Resources



For more information







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Thank You !