

„Ich sehe was, was Du nicht siehst ...“

Vorstellung

Enterprise Performance Vision (EPV) NEWS

Hartmut Rombach – TPS DATA GmbH

93. z/OS Expertenforum, Vitznau

20. Oktober 2021

RettEi

Erste-Hilfe-Set

- Kann Leben retten
- Beatmungstuch
- Einmalhandschuh
- Anleitung im Notfall



Agenda

1 Orientierung




TPS DATA GmbH
training · consulting · software

2 Produkt-Familie



TPS DATA GmbH
training · consulting · software

3 Input



TPS DATA GmbH
training · consulting · software

4 Neuigkeiten



TPS DATA GmbH
training · consulting · software

5 Noch Fragen?



TPS DATA GmbH
training · consulting · software



Orientierung



Wer sind wir

zBusiness is our business

- an zwei Standorten:
Karlsruhe, Stein am Rhein (Schweiz)
- mit 30 Jahren Know-how
- als Optimierungsspezialisten
- mit umfassender Projekterfahrung
- Markt: DACH

Wir sind aktiv in

- Computer Measurement Group ceCMG
- Guide Share Europe GSE
- Experten-Forum Schweiz
- European Mainframe Academy

Was macht uns besonders?

Die TPS DATA GmbH

- verfügt über mehr als 40 Jahre Erfahrung in der Mainframe-Welt
- kombiniert ihr Know-How in Beratung und Schulung
- setzt gezielt auf Experten-Tools

2021 haben wir 25-jähriges Firmenjubiläum der TPS DATA GmbH

Was leisten wir?



TPS DATA GmbH
training · consulting · software



Jährliche EPV-University - 2021 virtual edition

- Drei Seminare in in einer Woche
 - **WLM Update** 2 Tage im Februar 2021/Juni 2021
 - **Db2 performance analysis** 1 Tag im Februar 2021/Juni 2021
 - **z/OS performance analysis** 2 Tage im Februar 2021/Juni 2021

- Seminarleiter: Fabio Massimo Ottaviani und Danilo Gipponi
- Teilnehmergebühren:
200 Euro pro Tag, 0 Euro für Kunden und geladene Gäste
- Veranstaltungsort: Virtueller Schulungsraum
- EPV-Newsletter, monatlich, Anmeldung zur EPV-University
News: SMF, Reporting, Tuning, Probleme, etc.



Jährliche EPV-University - 2022 virtual edition

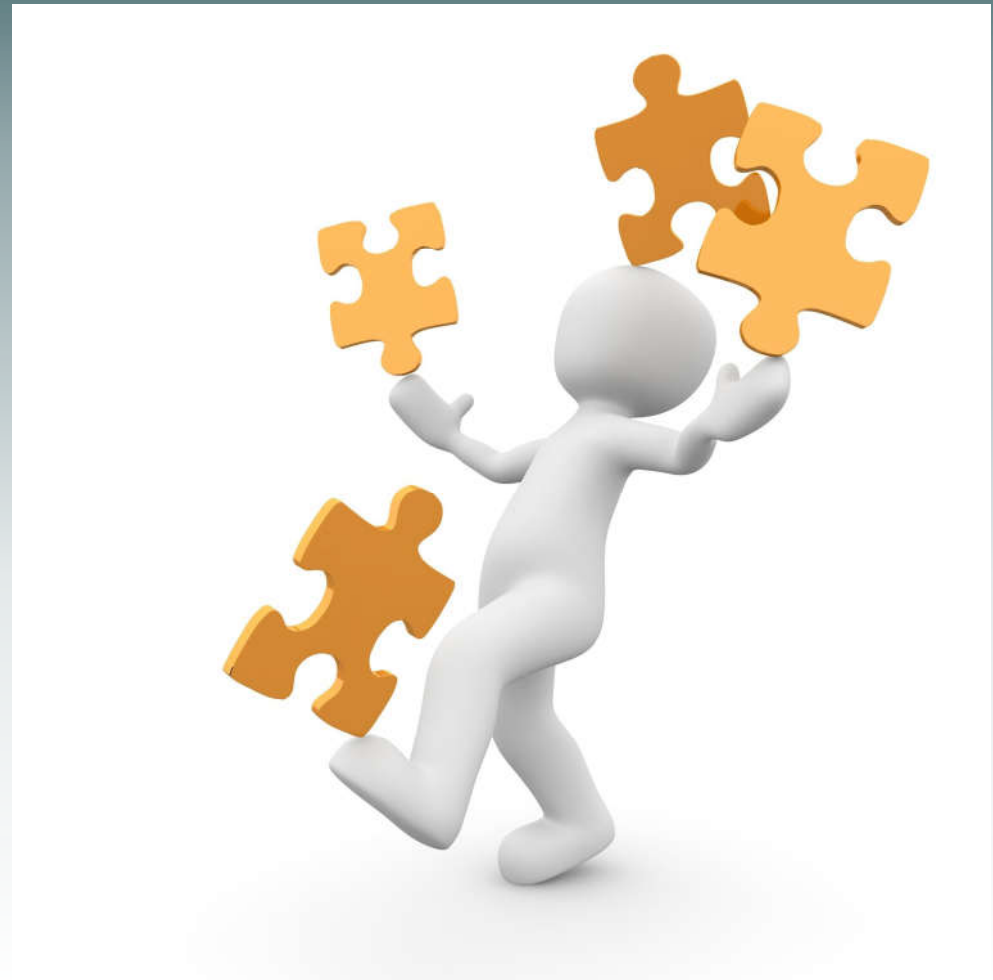
- Vier Seminare in in zwei Wochen
 - **z/OS performance analysis** 21.-23.02.2022
 - **MQ performance analysis** 24.02.2022
 - **Db2 performance analysis** 28.02.+01.03.2022
 - **WLM Update** 02.+03.03.2022

- Seminarleiter: Fabio Massimo Ottaviani und Danilo Gipponi
- Teilnehmergebühren:
200 Euro pro Tag, 0 Euro für Kunden und geladene Gäste
- Veranstaltungsort: Virtueller Schulungsraum
- Monatliches EPV-Newsletter, Agenda+Anmeldung zur EPV-University





Produkt-Familie



Was ist EPV?

- EPV ist eine Familie von Produkten – Baukasten nach Bedarf
- EPV ist eine Out-of-the-Box Lösung, unabhängig von der Größe der Installation (je größer die Installation, je hilfreicher ist EPV)
- EPV ist eine Post-Processing Lösung
- EPV ist keine Alternative zu Online-Monitoren, sondern die perfekte Ergänzung zu ihnen
- EPV enthält eine Refresh Mode-Funktion, die so konfiguriert werden kann, dass Berichte nahezu in Echtzeit (neartime) erstellt werden.
- EPV-Reports sind erreichbar, auch wenn die Datenbanken nicht zur Verfügung stehen
- EPV wird eingesetzt zur Kapazitätsplanung, zum Performance-Management und für das Accounting

Warum brauchen Sie EPV?

- Wandelt große Datenmengen in leicht zugängliche, sofort nutzbare Informationen um
- Bietet einen vollständigen Überblick über den "Zustand" Ihrer Subsysteme und Anwendungen
- Ermöglicht es, Anomalien und Leistungsprobleme schnell zu erkennen
- Führt auch weniger erfahrene Analysten mit Hilfe eines Top-Down-Ansatzes zu den benötigten Informationen
- Die Hilfe-Seiten erklären jedes Feld, einschl. der Quelle und ggf. Formel der Berechnung
- Spart 90% der Zeit, die die System Engineers benötigen, um:
 - Anomalien zu identifizieren und zu korrigieren
 - Subsysteme und Anwendungen abzustimmen
 - technische Berichte und Studien zu erstellen



Was zeichnet EPV aus?

- Events / Anomalies (> 100 interne Checks)
- History (über Monate, Jahre)
- Konfiguration und -Changes
- Navigation
- Deep Analysis
- Intelligente Links zu Querbezügen
- Alle erforderlichen Reports (für technisches und Business-Reporting)

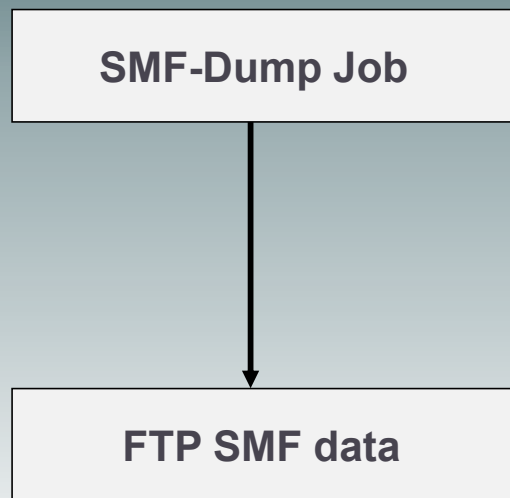
EPV-Produkte (1)

- EPV for **z/OS**
- EPV for **UNIX**
- EPV for **Linux**
- EPV for **LINUX on Z**
- EPV for **Db2**
- EPV for **VMWare**
- EPV for **MQ**
- **EPV for CICS**
- EPV **zParser** (beliebige Input-Daten)
- EPV **zParser Big Data**
- EPV**zip/EPVunzip Utility**
- EPV **SMF2XL**
- EPV **MyEPV V2**
- EPV **Multi-Client-Manager**
- EPV **Refresh Mode**
- EPV und **zCX Container**

EPV-Produkte (2)

- **EPV Graph**
several products depending on the base product
- **EPV Real Time (Collector)**
- **EPV Real Time CICS**
(machine learning approach)
- **EPV MyEPV QuickView (BI) family**
 - **EPV QuickView Systems**
 - **EPV QuickView Workloads**
 - **EPV QuickView Jobs**
 - **EPV QuickView CICS**
 - **EPV QuickView IMS**
 - **EPV QuickView Growth**
 - **EPV QuickView Database Explorer**

Wo läuft EPV?

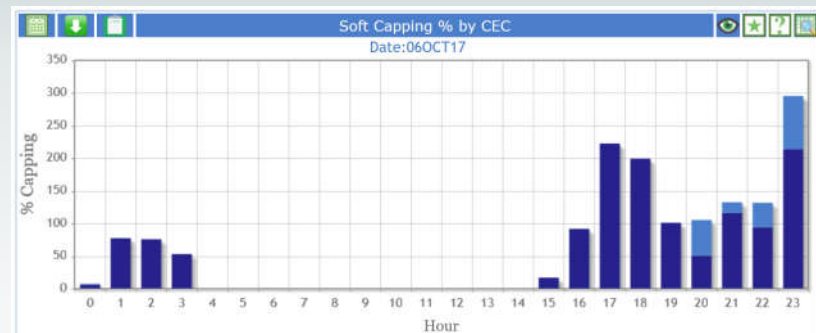


Mainframe

1. Tasks looks every 5 Minutes for new input file
2. Run zParser
3. Load the data in a database
4. Run EPV products

n times during the day

once



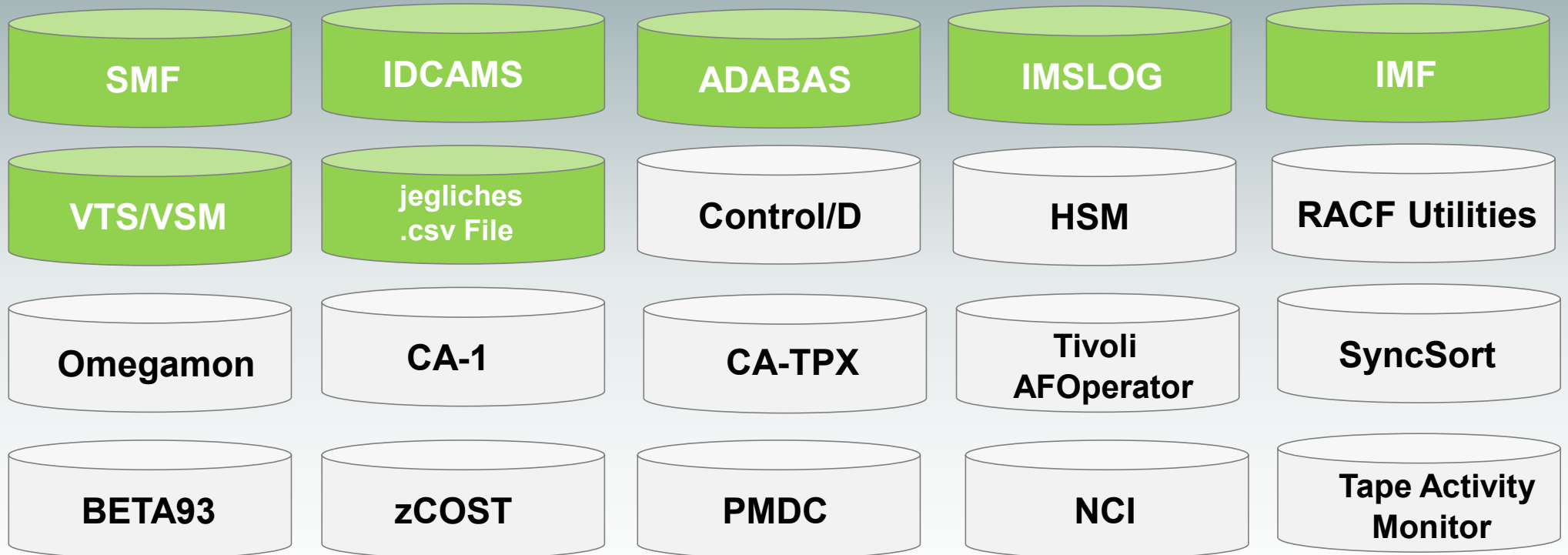
Workstation (UNIX, Linux, zLinux, zCX)



Input



Woher kommt der Input?





Neuigkeiten



Neuigkeiten



Neue Reports



Neue Produkte



Neue Plattformen



Neue Interfaces

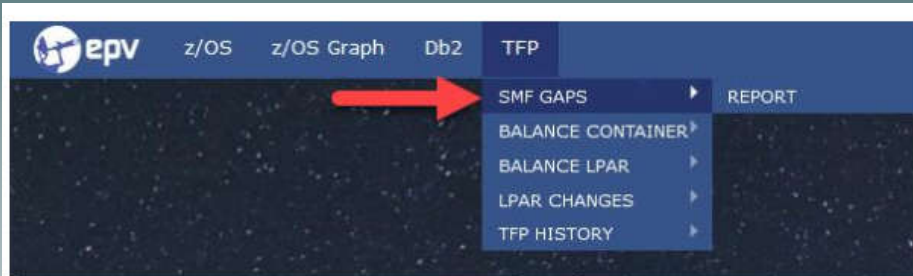
Neue Reports

- Sehr viele neue Reports
- Bedingt durch Erweiterungen im z/OS oder Neuerungen in der HW
- Kunden-Anforderungen wurden umgesetzt
- Drill-Down erweitert
- Heute beschränken wir uns auf TFP

Neue Reports – TFP (1)



Neue Reports – TFP (2)



Produced on: 2021-10-04 01:32:15, using template: H:/MyEPV_QW/MYEPV/_PROJECTS_PROD /TFP/SMF_GAPS/TEMPLATE1

SYSTEM	LAST SMFTIME	LAST GAPTIME	GAPS
	2021-10-04 00:00:00.00	2021/09/26 09:14:47	8
	2021-10-04 00:00:00.00	2021/09/25 17:02:13	9
	2021-10-04 00:00:00.00	2021/09/25 16:22:34	7
	2021-10-04 00:00:00.00	2021/09/25 16:09:11	9
	2021-10-03 23:45:00.00	2021/09/25 00:15:00	8
	2021-10-04 00:00:00.00	2021/09/11 16:42:49	7
	2021-10-04 00:00:00.00	2021/09/11 17:05:16	7
	2021-10-04 00:00:00.00	2021/09/11 18:27:01	8
	2021-10-04 00:00:00.00	2021/09/11 18:51:49	11
	2021-10-04 00:00:00.00	2021/09/25 00:15:00	11
	2021-10-04 00:00:00.00	2021/10/01 11:34:08	20
	2021-10-03 23:45:00.00	2021/10/01 13:26:45	12
	2021-10-04 00:00:00.00	2021/10/01 10:54:57	20
	2021-10-03 23:45:00.00	2021/10/01 13:02:24	15

Daily control about the last evaluated SMF records in LAST SMFTIME and the LAST GAPTIME per System, which, perhaps, should be explained in the next SCRT (Justification required in H7 section).

The total number of GAPS since the report was first created.

There is a link on each system for more details.

Neue Reports – TFP (3)



Conclusion



- **TFP contracts are, as the rule, different from company to company**
- **Be properly prepared before starting negotiations with IBM**
- **The TFP Standard Reports in EPV provide all necessary MSU profiles**
- **For further and individual reports to control the MSU consumption MyEPV is a very good solution**
- **The EPV Quick View Products are very helpful as well**



Neuigkeiten



Neue Reports



Neue Produkte



Neue Plattformen



Neue Interfaces



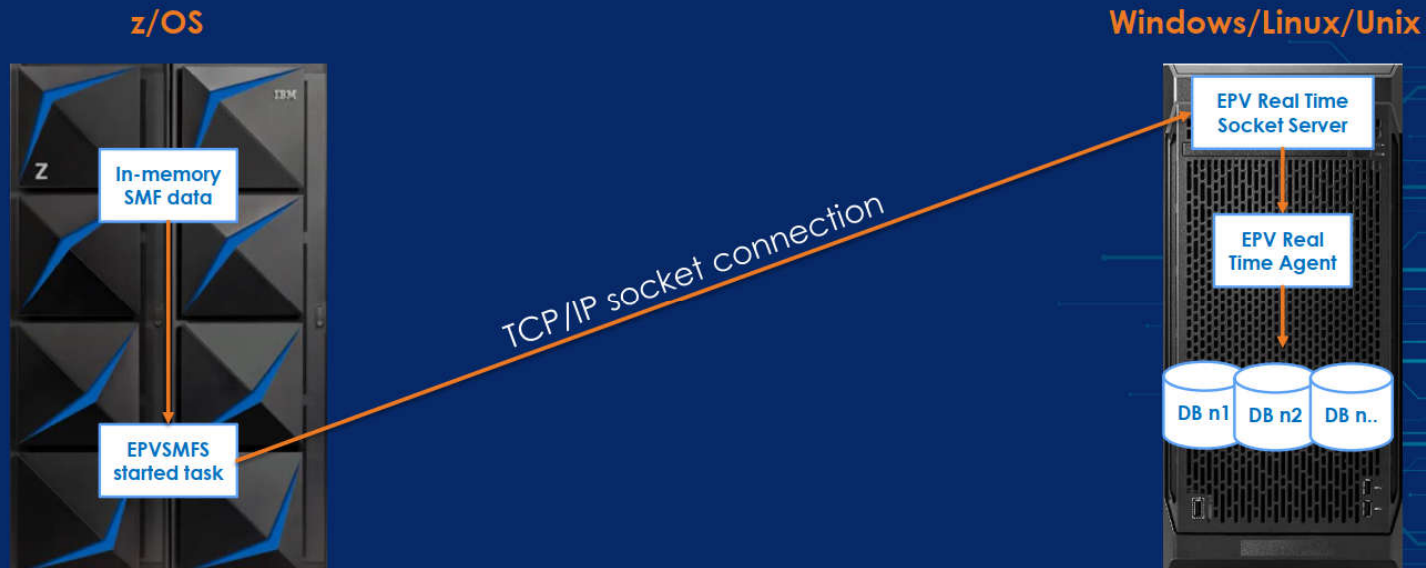
Neue Produkte

- EPV for z/OS Real Time
- EPV for CICS
- QuickView Packages (Business Intelligence)
- MyEPV V2

EPV for z/OS Real Time



Architecture

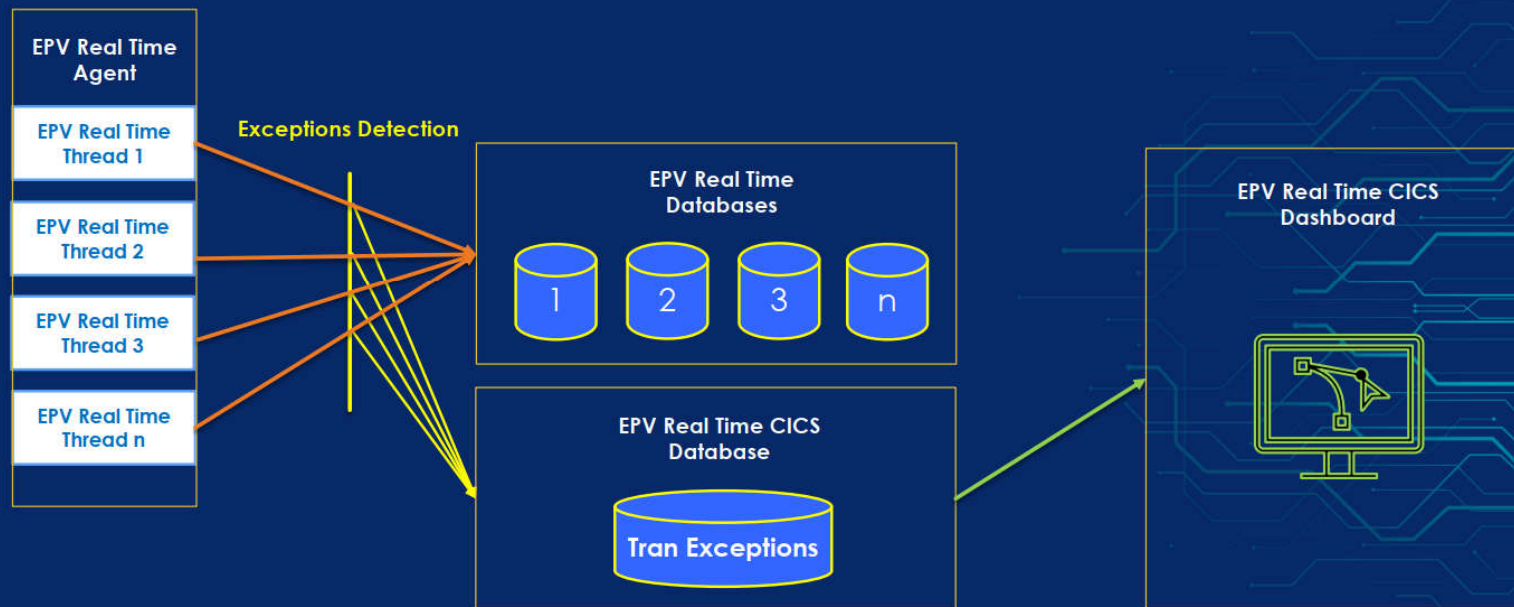


11 - 14 October 2021

First experiences with EPV Real Time



EPV Real Time CICS - Architecture



EPV Real time Dashboard

- SMF-Daten in realtime
- Filtern von Exceptions
(Machine learning and Artificial intelligence)
- Meldung und Darstellung im Dashboard
- Senden von Alerts an externe Monitoring Software

EPV for z/OS Real Time - Dashboard

First experiences - Conclusions





Configuration


XVIII EPV User Group 16










- ▶ Much more details about:
 - CICS transaction classes
 - DSA, EDSA, GDSA
 - Temporary Storage
 - Transient Data
 - LSR Pools
 - Db2 and MQ



EPV for CICS

Configuration Changes

< PROD CHANGES > 

         PROD CHANGES - Wed, 12 Feb 2020

GROUP	CICSID	SYSTEM	ASNAME	DATE	FREQ
PROD	CXP1PROD	PRD1	CICSP1	2020-02-12	1
PROD	CXP2PROD	PRD2	CICSP2	2020-02-12	1

CXP2PROD CHANGES

         CXPJPDJ2 CHANGES

GROUP	CICSID	SYSTEM	ASNAME	DATE	HOUR	AREA	OBJECT	PARAMETER	STATUS	NEW VALUE	OLD VALUE
PROD	CXP2PROD	PRD2	CICSP2	2020-02-12	0	REGION	CICS=CXP2PROD	MAXTASK		80	120





Regions, Resources, External SS

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- AVG trx running vs maxtask
- CPU and zIIP usage
- Paging activity
- I/O activity
- DSA, EDSA, GDSA usage
- Real memory usage
- Keypoints and Logging activity
- Temporary Storage activity
- Transient Data activity
- LSR Pools and File activity
- Db2, MQ and CTG connections activity



EPV for CICS

5-minutes views

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< TOP CXP1PROD RESP DETAIL >

TOP CXP1PROD RESP DETAIL - Wed, 12 Feb 2020 - HOUR 9

CICSID	SYSTEM	TRAN	APPL	METRIC	MAX	09:00	09:05	09:10	09:15	09:20	09:25	09:30	09:35	09:40	09:45	09:50	09:55	
CXP1PROD	PRD1	CSOL	CSOL	+ AVG RESPONSE	1.887,441	1.887,432							1.887,441					
CXP1PROD	PRD1	ZZIO	ZZIO	+ AVG RESPONSE	3,836	0,018	0,323	0,024	0,007	0,015	0,024	3,836	0,027		0,026	0,023	0,027	
CXP1PROD	PRD1	AR00	AR00	+ AVG RESPONSE	1,746	0,015						0,030	0,025	1,746				
CXP1PROD	PRD1	ZSXX	ZSXX	+ AVG RESPONSE	1,294	0,357	0,005	0,004	0,007	0,529	0,004	0,754	1,294	0,806	0,080	0,003	0,004	
CXP1PROD	PRD1	TZIO	TZIO	+ AVG RESPONSE	0,549	0,549	0,025	0,028	0,016	0,065	0,049	0,091	0,035	0,053	0,031	0,045	0,054	
CXP1PROD	PRD1	CSSY	CSSY	+ AVG RESPONSE	0,481	0,283	0,425	0,360	0,434	0,416	0,398	0,425	0,448	0,431	0,373	0,481	0,273	
CXP1PROD	PRD1	SK01	SK01	+ AVG RESPONSE	0,309	0,189	0,128	0,180	0,164	0,097	0,128	0,309	0,123	0,112	0,200	0,109	0,160	
CXP1PROD	PRD1	TZP0	TZP0	+ AVG RESPONSE	0,294			0,010	0,120			0,042	0,034	0,011	0,009	0,294		0,038

21 - 24 September 2020

EPV for CICS Highlights




TOP views

- ▶ TOP views shows the top transactions by total CPU usage and average response time at global, group and region level
- ▶ At region level top transactions views by transaction rate, I/O activity and abends are also provided
- ▶ The number of top transactions to show can be set in the TOPTRAN parameter (default is 50)
- ▶ Of course in EPV for CICS DBs you have all the transactions and about 300 metrics for each of them



Trends and User views

CICSSPOR RESPONSE BUCKETS ↔

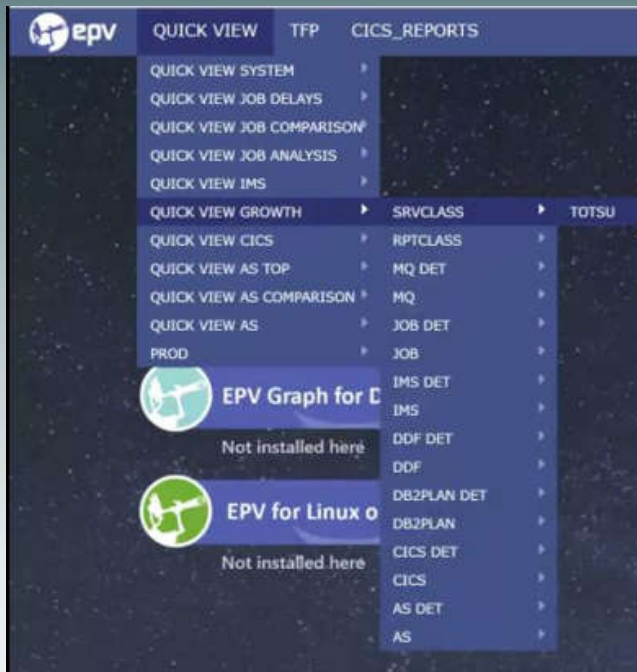
 CICSSPOR RESPONSE BUCKETS - PCT

DATE	DAY	TRX	LE 0.1	LE 0.3	LE 0.5	LE 0.8	LE 1	GT 1
2020-06-23	Tue	1531367	96,4	2,4	0,4	0,2	0,1	0,4
2020-06-22	Mon	1581163	96,5	2,4	0,4	0,3	0,1	0,4
2020-06-19	Fri	1243672	95,8	2,5	0,6	0,4	0,1	0,5
2020-06-18	Thu	1383559	96,0	2,5	0,6	0,4	0,1	0,4
2020-06-17	Wed	955996	96,1	2,5	0,6	0,4	0,1	0,4
2020-06-16	Tue	1744279	95,5	3,1	0,5	0,3	0,1	0,5
2020-06-15	Mon	1934833	95,8	2,7	0,5	0,4	0,1	0,5

- ▶ EPV for CICS provides workload daily, weekly and monthly trends
- ▶ You can keep under control specific transactions by exploiting the USER views
- ▶ Views showing the number of transactions completed by customizable response buckets are also provided



QuickView Packages



Like digging for gold!



Do you want the gold?

QuickView Job Delays

JOB DELAYS																							
SYSTEM	JOB	JESNUM	READTIME	ACTUAL					RATIO ACTUAL/AVERAGE					PRE-EXECUTION DELAYS				ACTUAL JOB DELAYS					
				ELAPSED	CPUTIME	ZIIP TM	DISKIO	TAPEIO	#JOBS	ELAPSED	CPU	ZIIP TM	DISKIO	TAPEIO	CONV	UNAV	HOLD	INIT	DSE NQ	ALLO C	ACT	RES	DSP
CMP1	M0041470	103193	2021-05-11 10:37:05.69	503,18	25,32	0	18.612	.	14	3	1,1	.	1	.	0	0	0	10,1	0,7	54,9	28,5	0	380,8
CMP1	M0042470	104128	2021-05-11 11:44:46.66	343,76	47,95	0	20.199	.	95	1,5	1,6	.	1,1	.	0	0	0	8,3	0,7	27,1	17,8	0	243
CMP1	M004SL13	103060	2021-05-11																				
CMP1	M0060670	103994	2021-05-11																				
CMP1	M0060670	104017	2021-05-11																				
CMP1	M0060670	104582	2021-05-11	CMP1	M0041470	103193	2021-05-11 10:37:05.69	Tue	NEW	503,18	25,32	0	18.612	.	0	0	0	10,1	0,7	54,9	28,5	0	380,8
CMP1	M006SL13	103898	2021-05-11	CMP1	M0041470	092024	2021-05-10 13:12:06.74	Mon	OLD	141,55	24,47	0	18.449	0	0	0	0	5,9	0	3,9	1,2	0	50,5
CMP1	M0080470	104043	2021-05-11	CMP1	M0041470	081268	2021-05-09 16:20:47.61	Sun	OLD	89,66	23,08	0	17.917	0	0	0	0	2.269,3	0	2,5	1,6	0	23,1
CMP1	M008SL13	103943	2021-05-11	CMP1	M0041470	081212	2021-05-09 16:16:19.62	Sun	OLD	68,34	22,2	0	17.730	0	0	0	0	2.455,3	0	1,3	0,6	0	3,3
CMP1	M0122370	103090	2021-05-11	CMP1	M0041470	081100	2021-05-09 16:07:14.26	Sun	OLD	67,85	22,09	0	17.684	0	0	0	0	2.362,3	0	1,4	0,8	0	3,5
CMP1	M0122370	105130	2021-05-11	CMP1	M0041470	026309	2021-04-22 11:45:34.88	Thu	OLD	404,95	25,75	0	18.317	0	0	0	0	27.380,3	0	7,7	3,1	0	203,1
CMP1	M012SL13	102790	2021-05-11	CMP1	M0041470	026269	2021-04-22 11:42:38.21	Thu	OLD	357,66	25,79	0	18.221	0	0	0	0	26.670,1	0	8,3	2,9	0	173,3
				CMP1	M0041470	029810	2021-04-11 11:36:51.68	Sun	OLD	112,09	25,23	0	18.278	0	0	0	0	6,9	0	2,3	0,8	0	46,4
				CMP1	M0041470	029125	2021-04-11 10:47:22.80	Sun	OLD	95,6	24,73	0	18.270	0	0	0	0	6,7	0	1,1	0,3	0	16,6
				CMP1	M0041470	011030	2021-04-08 14:08:21.96	Thu	OLD	208,47	25,66	0	18.460	0	0	0	0	6,1	0	3,5	1,6	0	102,4
				CMP1	M0041470	010609	2021-04-08 13:41:52.28	Thu	OLD	68,43	24,63	0	18.291	0	0	0	0	5,6	0	1,7	0,7	0	18,5
				CMP1	M0041470	119874	2021-04-07 15:28:59.76	Wed	OLD	65,81	24,23	0	18.368	0	0	0	0	5,3	0	1,2	0,4	0	7,1
				CMP1	M0041470	096040	2021-03-11 14:30:18.52	Thu	OLD	247,09	25,39	0	18.184	0	0	0	0	6,1	0	3,8	1,6	0	136,1
				CMP1	M0041470	101826	2021-03-01 11:38:11.92	Mon	OLD	134,13	21,77	0	16.020	0	0	0	0	6	0	3,3	0,9	0	38,9
				CMP1	M0041470	092739	2021-02-16 15:23:51.24	Tue	OLD	299,35	22,21	0	16.158	0	0	0	0	7,7	0	4	2,5	0	137,5

QuickView Top AS

TOTMSU																
- TOTSWSU																
SERIAL	SYSJOB	TOTMSU	HOURS	DAYS	0	1	2	3	4	5	6	7	8	9	10	11
E118	ALF1_MCMSD1	1.021	41	23	349	8	.	.	.	.	.	.	.	.	.	.
E118	ALF1_MDISGZI2	935	54	15	52	27	22	.	.	13	5	.	9	5	2	.
E118	ALF1_MULTSTG2	792	51	22	.	.	.	.	.	.	.	.	.	57	29	.
E118	ALF1_MCMSD470	708	43	19	.	.	.	.	.	.	.	.	.	.	.	.
E118	ALF1_MMBSD1	690	37	20	25	.	.	.	.	.	.	.	.	.	.	.
E118	ALF1_MMBSHDBT	659	37	21	173	100	5	.	.	.	.	.	.	.	.	.
E118	ALF1_MMBSY211	622	48	7	16	20	37	48	46	57	66	53	37	35	24	1
E118	ALF1_MDISCDIN	605	51	6	41	40	20	19	23	19	31	41	27	19	18	1
E118	ALF1_MTDMPGDS	546	41	21	107	30	22	19	7	.	.	26	14	.	.	.
E118	ALF1_MMBSGLWH	510	48	19	40	78	51	86	69	15	33	23	5	1	.	.
E118	ALF1_MRCMSY3	464	35	7	.	.	.	.	.	.	4	35	66	65	43	4
E118	ALF1_MCMS5BPL	458	38	19	46	88	153	112	52	7	.	.	.	.	.	.
E118	ALF1_MCMSDM60	455	31	19	.	.	22	91	53	73	19	61	15	6	23	2
E118	ALF1_MTRMNATS	449	28	19	.	26	45	132	51	117	45	25	8	.	.	.

MSU														
- SWSU														
SERIAL	SYSJOB	DATE	DAY	MIPS	MSU	TOTAL	HOUR							
							0	1	19	20	21	22	23	
E118	ALF1_MCMSD1	2020-06-01	Mon	1.405	175	45	.	.	.	.	.	.	45
E118	ALF1_MCMSD1	2020-06-02	Tue	1.405	175	51	9	.	.	.	.	14	28
E118	ALF1_MCMSD1	2020-06-03	Wed	1.405	175	43	.	.	.	.	.	.	43
E118	ALF1_MCMSD1	2020-06-04	Thu	1.405	175	43	.	.	.	.	.	4	39
E118	ALF1_MCMSD1	2020-07-01	Wed	1.405	175	57	42	3	.	.	.	.	12
E118	ALF1_MCMSD1	2020-07-02	Thu	1.405	175	48	44	.	.	.	.	.	5
E118	ALF1_MCMSD1	2020-07-03	Fri	1.405	175	39	39	.	.	.	.	.	.
E118	ALF1_MCMSD1	2020-07-04	Sat	1.405	175	46	.	.	.	.	37	9	.
E118	ALF1_MCMSD1	2020-08-01	Sat	1.405	175	62	.	.	3	42	17	.	.	
E118	ALF1_MCMSD1	2020-08-02	Sun	1.405	175	3	.	.	.	.	.	.	3
E118	ALF1_MCMSD1	2020-08-03	Mon	1.405	175	45	42	3	.	.	.	.	.
E118	ALF1_MCMSD1	2020-08-04	Tue	1.405	175	57	44	2	.	.	.	.	11
E118	ALF1_MCMSD1	2020-09-30	Wed	1.405	175	26	.	.	.	.	.	.	26
E118	ALF1_MCMSD1	2020-10-01	Thu	1.405	175	34	18	.	.	.	.	.	16

QuickView Growth AS

WORKLOAD GROWTH ANALYSIS FOR METRIC TOTSU

SYSTEM	WKL	SMF30JBN	DATE	DAY	SU/sec	TOTSU		%METRICS			TOTAL				AVG HOUR				HOUR AS/RATE				
						%DEC	%INC	SU	AVGSU	CPU	SU	IIP	MIP	MIPIIP	CPU	SU	IIP	DISKIO	TAPEIO	HOURS	MIN	AVG	MAX
PROD	SYS	GRS	2020-10-02	Fri	35.955	.	.	.	.	454	16.334.381	.	3,7	.	18,929	680.599	.	0	0	24	1	1	1
PROD	SYS	GRS	2020-10-01	Thu	35.955	.	.	.	.	499	17.945.168	.	4,1	.	20,796	747.715	.	0	0	24	1	1	1
PROD	SYS	GRS	2020-08-04	Tue	35.955	.	1.568,7	1.568,7	1.568,7	55.067	1.979.935.867	.	447,8	.	2.294,457	82.497.328	.	1,8	0	24	1	1	1
PROD	SYS	GRS	2020-08-03	Mon	35.955	.	.	.	.	454	16.323.595	.	3,7	.	18,917	680.150	.	0,3	0	24	1	1	1
PROD	SYS	GRS	2020-08-02	Sun	35.955	.	.	.	.	442	15.889.977	.	3,6	.	18,414	662.082	.	0,1	0	24	1	1	1
PROD	SYS	GRS	2020-07-03	Fri	35.955	.	.	.	.	401	14.417.977	.	3,3	.	16,708	600.749	.	0	0	24	1	1	1
PROD	SYS	GRS	2020-07-02	Thu	35.955	.	.	.	.	508	18.268.763	.	4,1	.	21,171	761.198	.	0	0	24	1	1	1
PROD	SYS	GRS	2020-07-01	Wed	35.955	.	.	.	.	510	18.344.269	.	4,1	.	21,258	764.345	.	0,1	0	24	1	1	1
PROD	SYS	GRS	2020-06-04	Thu	35.955	.	232,8	232,8	232,8	10.982	394.858.411	.	89,3	.	457,583	16.452.434	.	0,7	0	24	1	1	1
PROD	SYS	GRS	2020-06-03	Wed	35.955	.	.	.	.	417	14.989.662	.	3,4	.	17,371	624.569	.	0	0	24	1	1	1
PROD	SYS	GRS	2020-06-02	Tue	35.955	.	.	.	.	449	16.140.224	.	3,7	.	18,704	672.509	.	0	0	24	1	1	1
PROD	SYS	GRS	2020-06-01	Mon	35.955	.	.	.	.	553	19.897.527	.	4,5	.	23,058	829.064	.	0,2	0	24	1	1	1
PROD	SYS	GRS	2020-03-04	Wed	35.955	.	.	.	.	421	15.123.415	.	3,4	.	17,526	630.142	.	0,1	0	24	1	1	1
PROD	SYS	GRS	2020-03-03	Tue	35.955	.	.	.	.	422	15.155.415	.	3,4	.	17,563	631.476	.	0	0	24	1	1	1
PROD	SYS	GRS	2020-03-02	Mon	35.955	-90,1	.	-90,1	-90,1	328	11.795.415	.	2,7	.	13,669	491.476	.	0	0	24	1	1	1
PROD	SYS	GRS	2020-03-01	Sun	35.955	-88,6	.	-88,6	-88,6	375	13.495.370	.	3,1	.	15,639	562.307	.	0	0	24	1	1	1
PROD	SYS	GRS	AVERAGE		.	.	.	.	.	.	118.652.545	.	.	.	.	4.943.856	.	.	.	.	.	.	.

MyEPV V2 – node.js basiert

MTHRU Database: Folder Name (optional):

SYSTEMS COUNT: 8

APPLID COUNT: 18

INSERT YOUR TRANSACTIONS NAME OR WITH WILDCARD (ABC%)
 +1

OPERATOR: Like Not Like ⓘ

GROUP: Yes No ⓘ

PROCEDURES AND SESSIONS
You can save your userexit, run procedures and manage your application sessions.

EPVDATES COUNT: 395 days

BASE PERIOD:

ANALYSIS PERIOD:

SELECT HOURS: +1

METRICS AND STATISTICS

COMPARISON METRIC:
 Avg CPU Total CPU Total Transactions A

Min Single % CPU Usage: % Comparison Metric Increase:

REPORT FILTERS:

Top Transactions: <input type="text" value="100"/>	Total Transactions: <input type="text" value="10"/>	Total CPU Seconds: <input type="text" value="5"/>
Average CPU Seconds: <input type="text" value="0.0100"/>	Average Elapsed: <input type="text" value="0.0500"/>	

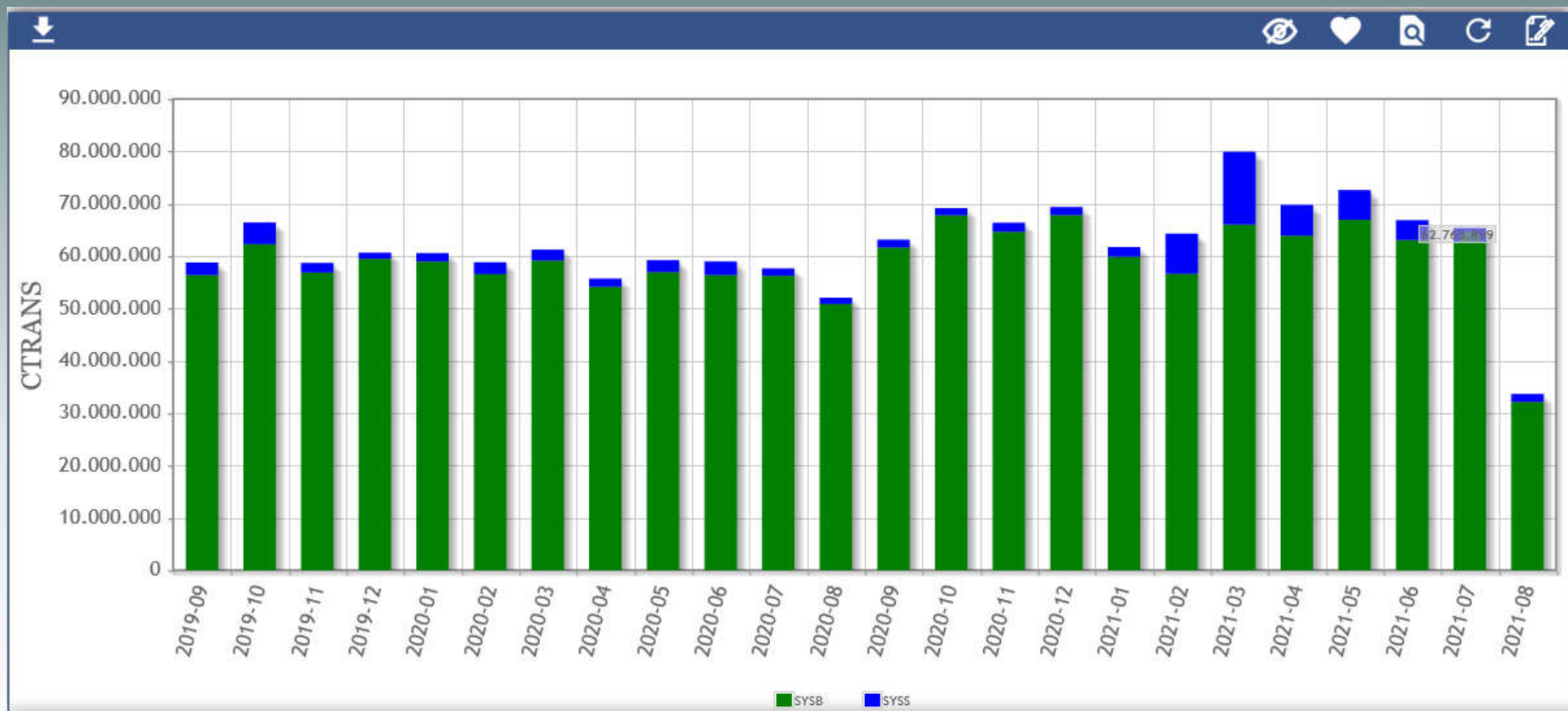
MyEPV V2 - Tabellen

Percent Transactions										
Tranname	Date	Cputime	Trans	Avg	<= 1 secs	<= 2 secs	<= 3 secs	<= 4 secs	<= 5 secs	> 5 secs
B001	2018-02-02	62,54	13.033	0,019	99,99	0,01	0	0	0	0
B011	2018-02-02	98,67	16.333	0,022	99,99	0,01	0	0	0	0
B025	2018-02-02	31,1	4.304	0,045	99,95	0,05	0	0	0	0
B026	2018-02-02	40,52	4.155	0,052	99,93	0,07	0	0	0	0
EB20	2018-02-02	30,5	6.889	0,052	99,87	0,04	0	0,01	0	0,07
TADP	2018-02-02	5,1	4.742	0,007	100	0	0	0	0	0
EB26	2018-02-02	199,57	89.396	0,062	99,28	0,39	0,09	0,05	0,03	0,16
B012	2018-02-02	39,32	6.087	0,106	98,67	0,43	0,54	0,2	0,05	0,12
FIC2	2018-02-02	7,21	8.636	0,096	98,78	0,64	0,15	0,07	0,06	0,3
SWMN	2018-02-02	255,27	5.501	0,549	85,6	9,45	2,31	0,98	0,58	1,07
SMON	2018-02-02	849,59	5.376	1,765	56,94	22,86	5,25	6,01	3,24	5,71

Percent Transactions															
Date	Appid	System	Tranname	Program	Type	User	Cputime	Trans	Avg	<= 1 secs	<= 2 secs	<= 3 secs	<= 4 secs	<= 5 secs	>5 secs
2018-02-02	CICCAORD	RESO	EB26	TAM10PPB	TO	WASNCICC	93,47	43.230	0,047	99,35	0,35	0,1	0,08	0,02	0,12
2018-02-02	CICTAORD	RESO	EB26	TAM10PPB	TO	WASNCICT	106,1	46.166	0,076	99,21	0,42	0,08	0,05	0,04	0,2

Percent Transactions									
Date	Tranname	Hour	Trans	<= 1 secs	<= 2 secs	<= 3 secs	<= 4 secs	<= 5 secs	> 5 secs
2018-02-02	EB26	0	3.693	98,05	1,08	0,16	0,05	0,08	0,57
2018-02-02	EB26	1	3.657	97,7	0,66	0	0,22	0,08	1,34
2018-02-02	EB26	2	3.678	97,53	0,9	0,35	0,41	0,33	0,49
2018-02-02	EB26	3	3.680	98,61	1,01	0,16	0	0,05	0,18
2018-02-02	EB26	4	3.673	98,64	0,79	0,35	0,08	0	0,14
2018-02-02	EB26	5	3.693	99,92	0,08	0	0	0	0
2018-02-02	EB26	6	3.676	100	0	0	0	0	0
2018-02-02	EB26	7	3.688	99,81	0,16	0	0,03	0	0
2018-02-02	EB26	8	3.701	99,92	0,05	0	0	0	0,03
2018-02-02	EB26	9	3.377	100	0	0	0	0	0
2018-02-02	EB26	10	3.734	99,95	0	0	0	0	0,05
2018-02-02	EB26	11	4.189	99,21	0,57	0,05	0,1	0,07	0
2018-02-02	EB26	12	3.699	98,97	0,59	0,19	0,14	0	0,11
2018-02-02	EB26	13	3.724	99,73	0,21	0,05	0	0	0

MyEPV V2 - Grafiken



Neuigkeiten



Neue Reports



Neue Produkte



Neue Plattformen



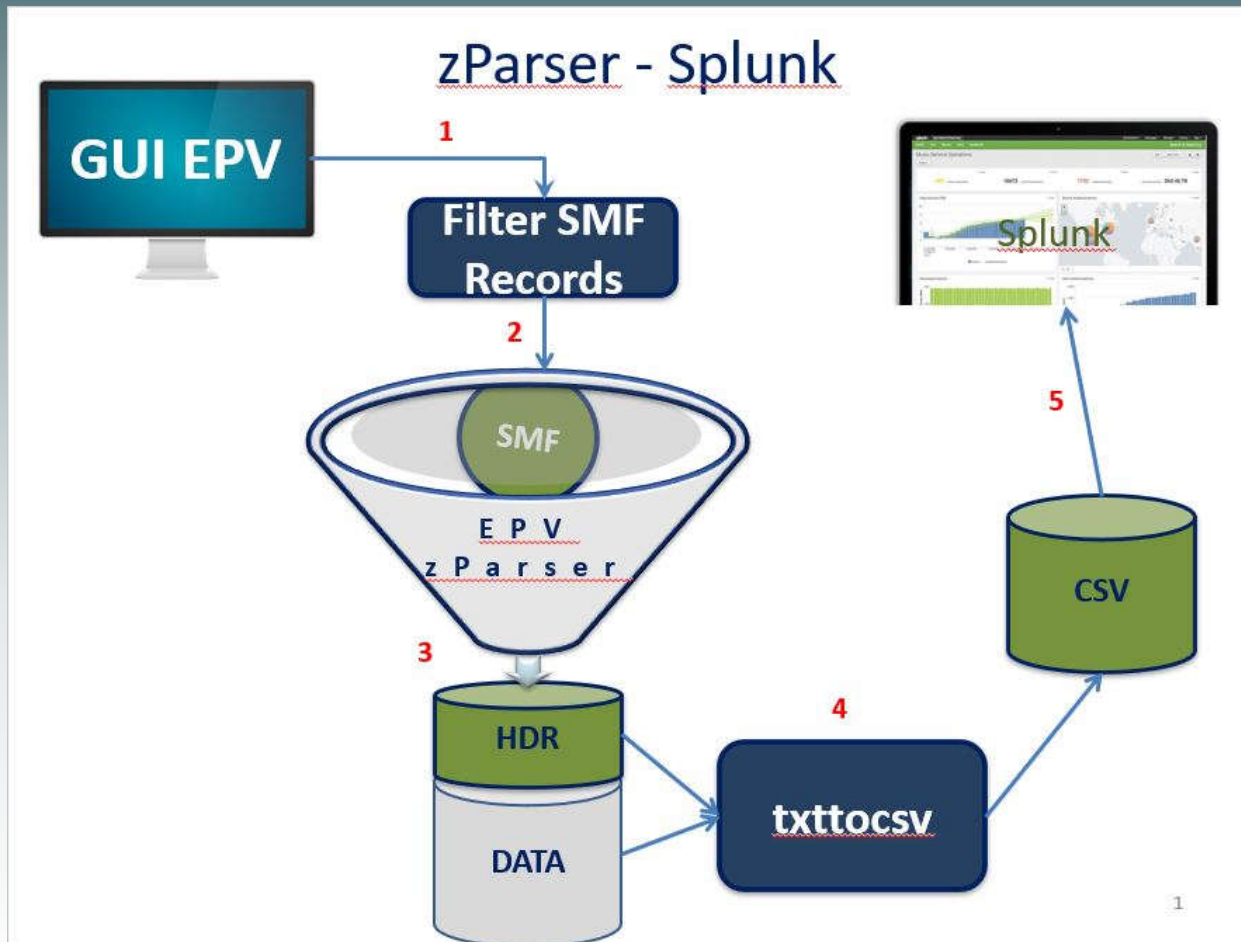
Neue Interfaces



Neue Plattformen

- Data Lake (Hadoop / Splunk)
- SaaS (Software as a Service)
- zCX

Data Lake (Hadoop / Splunk)





Software as a Service (SaaS)

SaaS

We can provide
SaaS on premises



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15 October 2020

EPV Partners Day 2020 - EPV Update



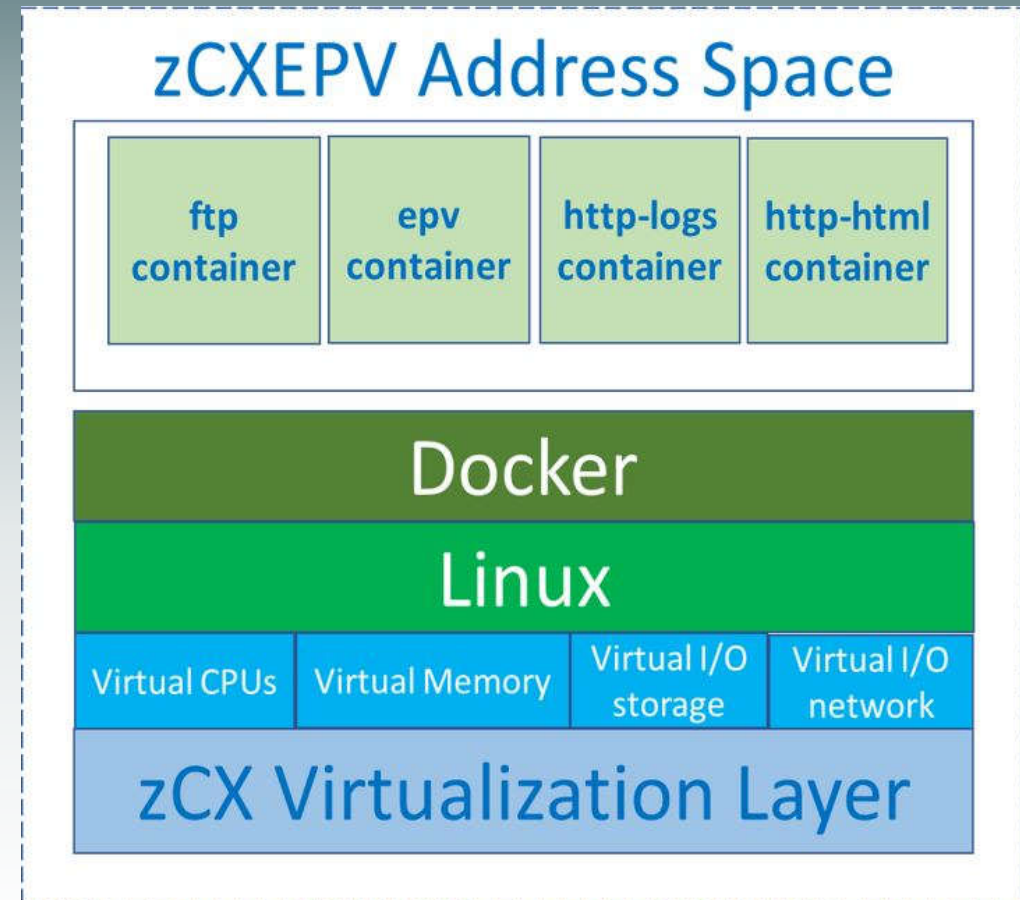


zCX (z/OS Container Extention)

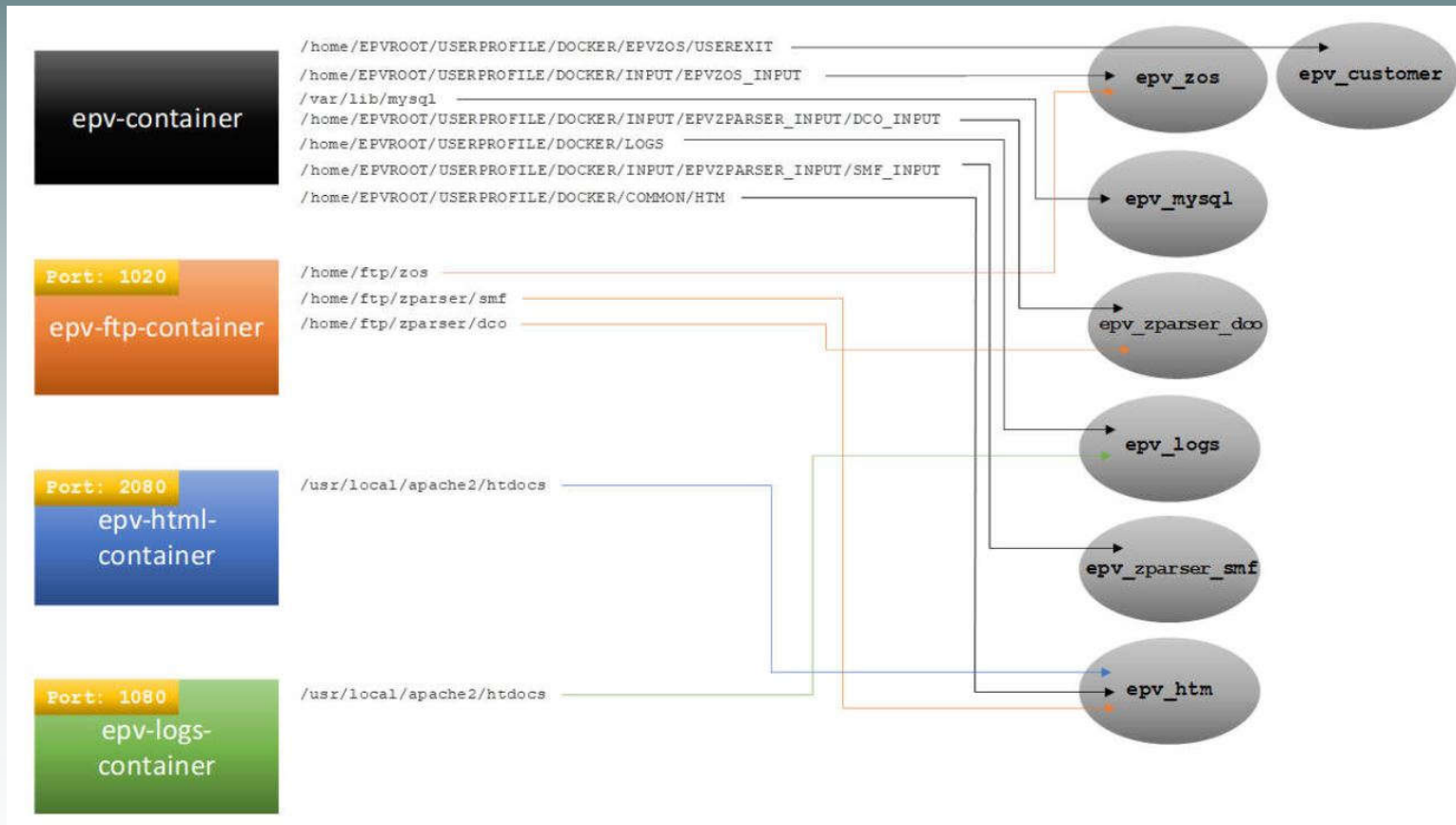
- Die komplette Anwendung läuft in einem z/OS-Adressraum
- Das OS ist Linux, das Trägersystem Docker
- Das Image wird vom Docker-Hub heruntergeladen
- Fertige Installationsscripte zu Installation und Betrieb des EPV-Containers
- Erreichbar sind alle Aus- und Eingänge über IP-Adresse/Portnr.
- In kürzester Zeit implementiert
- Empfehlung zur Administration von Docker: [Portainer.io](https://portainer.io)

zCX - Architektur

- The EPV architecture in this new environment foresee one zCX instance (a z/OS started task) named zCXEPV and, inside it, the following containers:
 - ftp-container
 - epv-container
 - http-logs-container
 - http-html-container



zCX – Container (Stand V2)



Neuigkeiten



Neue Reports



Neue Produkte



Neue Plattformen



Neue Interfaces



Neue Interfaces

- HTML User Interface
- New Web interface (Control Center)
- FocalPoint (Status und Loganalyse)
- GUI Navigation

HTML-User Interface

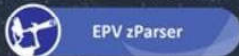
New Look – HTML User Interface

XVIII EPV User Group

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epv z/OS z/OS Graph Db2 CICS MQ

Enterprise Performance Vision



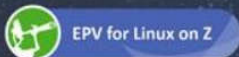
EPV zParser

V15.12 - Expiring on: 31 Jan 2022



EPV Graph for Db2

Not installed here



EPV for Linux on Z

Not installed here



EPV for z/OS

V15.04 - Expiring on: 31 Jan 2021



EPV for CICS

V15.10 - Expiring on: 31 Jan 2021



EPV for Unix

Not installed here



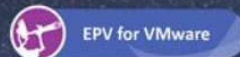
EPV for Db2

V14.32 - Expiring on: 31 Jul 2020



EPV for MQ

V14.12 - Expiring on: 31 Jan 2021



EPV for VMware

Not installed here



EPV Graph for z/OS

Not installed here



MyEPV

Not installed here



EPV SMF2XL

V15.12 - Expiring on: 31 Jan 2022

21 - 24 September 2020

EPV Products Evolution



Control Center



TPS DATA GmbH
training · consulting · software

The screenshot shows the EPV Control Center interface. On the left is a navigation sidebar with sections: Setup (Profiles, Settings, Products, MIPS Tables, Installation), Tools (Updater, Issue Reporter), Online (Reports, Focal Point), Monitoring (Analytics, Performance), and Info (Help, About EPV). The main area is titled 'Setup' and 'EPV Products'. It displays a grid of 12 product cards. Each card shows a product name, validity period, version, and a status icon (green checkmark for installed/valid, red X for expired, or minus sign for not installed).

Product Name	Validity	Version	Status
EPV zParser	Valid until 2021-12-31	Version 15.17	Installed
EPV for z/OS	Valid until 2021-12-31	Version 14.46	Installed
EPV for Db2	Valid until 2021-12-31	Version 14.28	Installed
EPV Graph for z/OS	Valid until 2021-12-31	Version 15.07	Installed
EPV Graph for Db2	Valid until 2021-12-31	Version 14.16	Installed
EPV for CICS	Expired on 2021-01-02	Version 15.07	Expired
EPV for MQ	Valid until 2021-12-31	Version 15.01	Installed
EPV for Linux on Z	Valid until 2021-12-31	Version 15.06	Installed
MyEPV	Not installed here	-	Not Installed
EPV for Unix	Not installed here	-	Not Installed
EPV for VMware	Not installed here	-	Not Installed
EPV SMF2XL	Not installed here	-	Not Installed

EPV FocalPoint (1)



EPV Focal Point for ROH-V15 Profile

Last update on 2021-07-14 at h11m58s21

« Prev Day Selection Next »

PRODUCT	LICENSE	STATUS	ERRORS	LAST UPDATE	LOG PAGE
EPV zParser V15.55	Expiration: 2022-01-31	Ok	0	2021-07-14 11:58:09	EPVzParserLogsAnalyzer.210714.HTML (Full Day) or <u>Hour</u> <input type="button" value="v"/>
EPV for z/OS V15.21	Expiration: 2022-01-31	Ok	0	2021-07-14 11:53:27	NIGHTBATCH_ZOS.210714.HTML
EPV Graph for z/OS V15.15	Expiration: 2022-01-31	Ok	0	2021-07-14 11:58:03	NIGHTBATCH_ZGRAPH.210714.HTML

EPV FocalPoint (2)



EPV zParser Logs Analyzer for ROH-V15 Profile

Last update on 2021-07-14 at h11m58s09

« Prev Day Selection Next »

Specific hour analysis Full Day ▾

zParser Logs Analyzer

START TIME	END or CURRENT TIME	ELAPSED	STEP	STATUS	LOG	DETAILS
2021-07-14 11:46:47	2021-07-14 11:46:49	00:00:02	EPVzParserDbClear	No data	EPVzParserDbClear_ZPARSER.h11m46s47.log	No Dropped Tables Created Tables in ZPARSER DB: 80
2021-07-14 11:46:51	2021-07-14 11:46:52	00:00:01	EPVzParserAndDbFill for SMF	Ok	EPVzParser_SMF_WorkAL0_input.file1.UND_h11m46s50.log	Dump Name: input.file1.UND ; Total Files: 1; Total Records: 2782; Stored Records: 1886; Total MB: 4.128; Stored MB: 3.403; Loaded Tables in ZPARSER DB: 28;
2021-07-14 11:47:06	2021-07-14 11:47:06	00:00:00	EPVzParserDbDeaccum for SMF	Ok	EPVzParserDbDeaccum.SMF.h11m47s06.log	Deaccumulated Tables in DB: 7
2021-07-14 11:46:54	2021-07-14 11:47:06	00:00:12	EPVzParserEndOfDay	Ok	EPVzParserEndOfDay.h11m46s54.log	

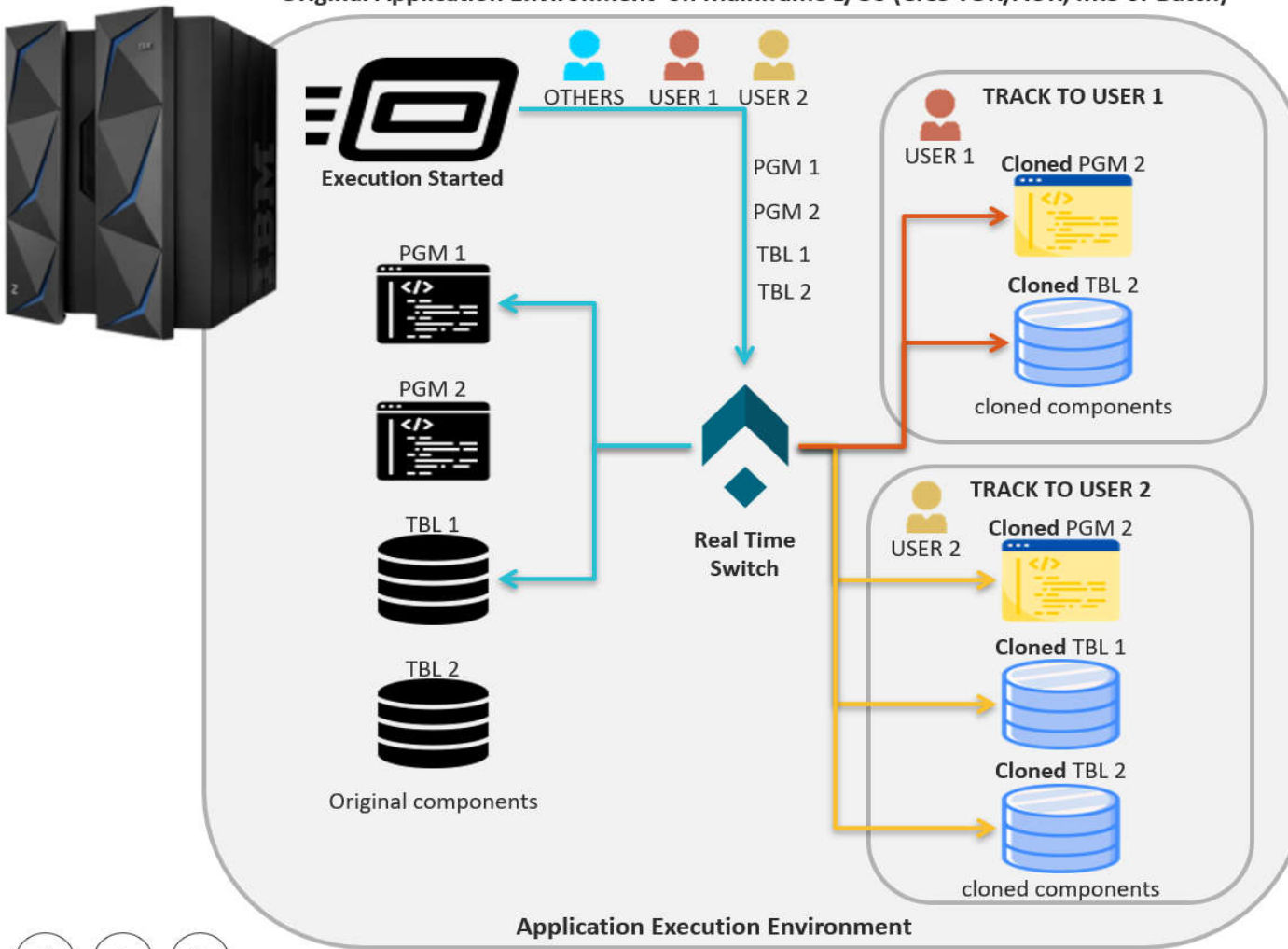


Noch Fragen?

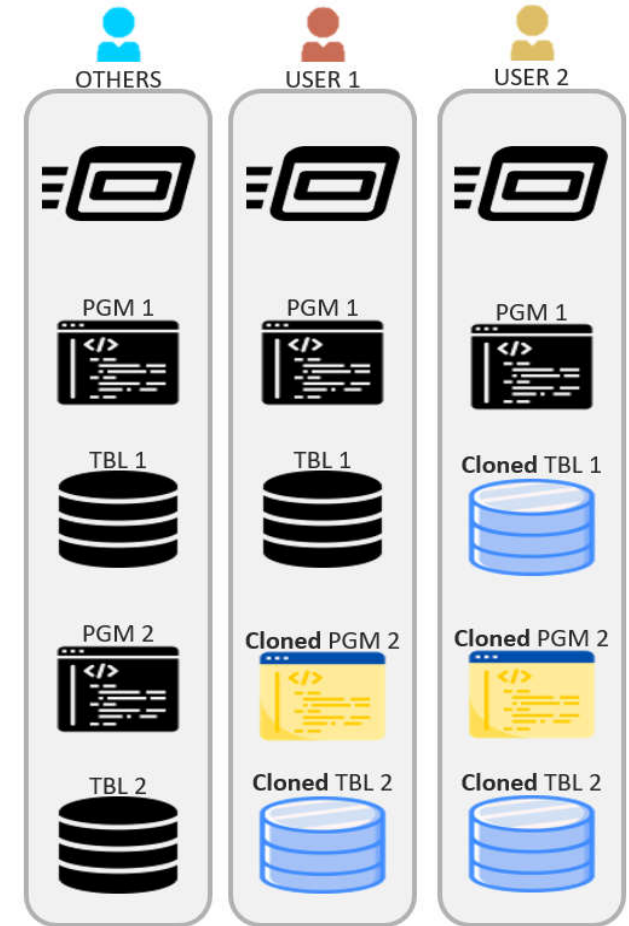


APT CONTAINERS For TEST TRACK

Original Application Environment on Mainframe z/OS (CICS TOR/AOR, IMS or Batch)



EXECUTION TIME



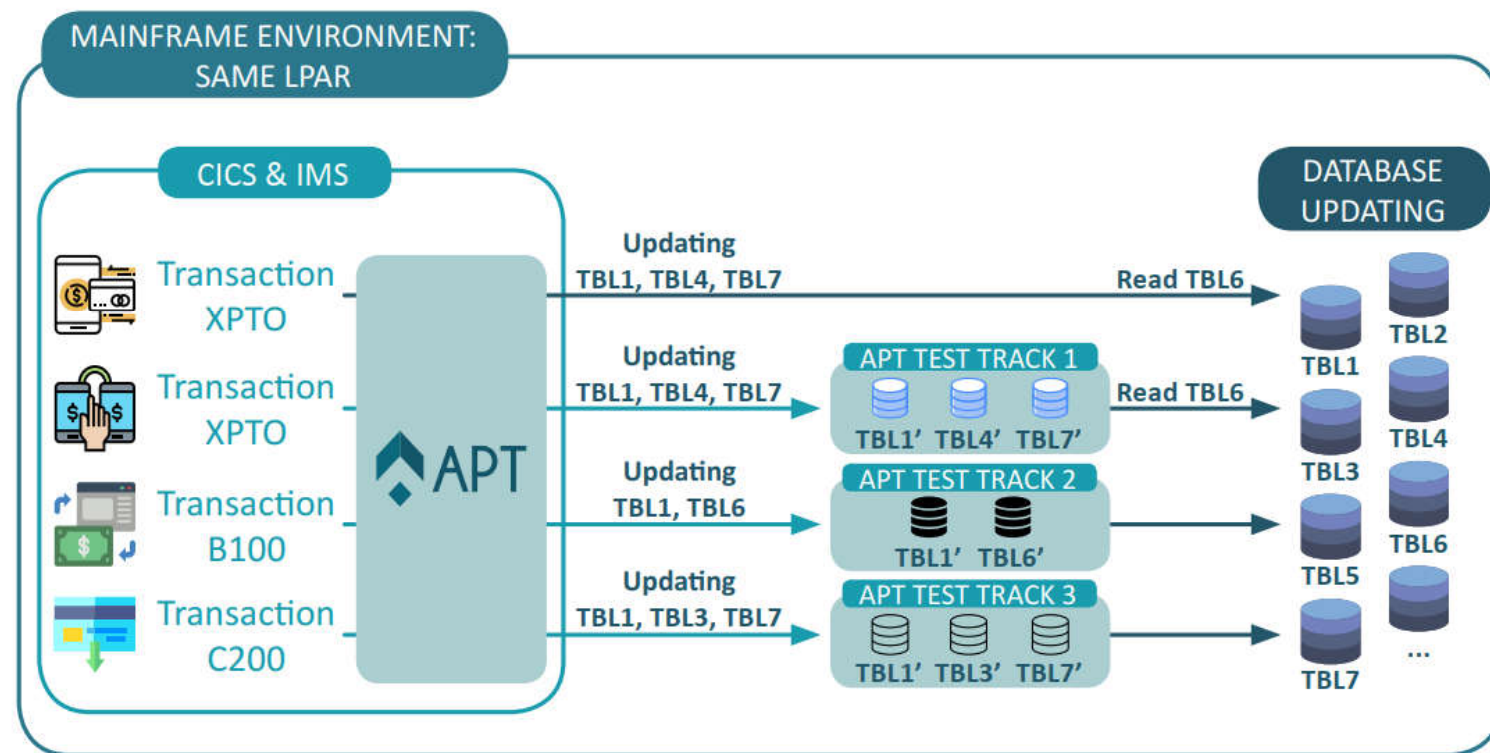
Application Execution Environment



INSIDE THE APT: TEST TRACKS

BUSINESS BENEFITS:

- Faster *time-to-market*
- Fewer Production errors.
- Enables continuous mainframe testing through continuous delivery.
- Avoid increasing infrastructure costs.
- Time reduction throughout the test cycle.



*TBL - Abbreviation for Table