ELOCITY S O F T W A R E

Monitoring z/VSE with zVPS

VM Workshop June, 2022

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Who is Velocity Software?

Founded 1988, Mission:

- Provide software to assist customers in optimizing the z/VM platform
- Continuous fully integrated enhancements for over 30 years

Over 200 installations (zVPS)

- More than half of the IFLs worldwide
- In 22 countries, on 6 continents

Headquartered in Mountain View, California

Offices in Ohio, Texas, Wisconsin, and Germany

Velocity Software's Sales and Technical Support Map



z/VSE introduced SNMP with z/VSE 4.3

- Announced in 2010
- Since we use SNMP for Linux, it was a natural progression

Velocity Software

- Introduced z/VSE monitoring
- Based on SNMP 'plugins' provided by IBM
- Added our partition plugin in 2014
 - Displays partition and job information as jobs are running



Added additional VSE support (2019-2020)

Introduced VSEMON

- Updated partition monitoring
- CICS monitoring
- TCP/IP stack monitoring



Updated partition monitoring

- Step/Job ends more closely tracked
- Performance improvements in the VSI plugin
 - One SNMP call per active partition

ESAVSEP	ESAVSEP - VM4 💡 🚍 🧪 🔍 🕉																			
\checkmark	ESAVSEP - VSE Partition Performance - VM4															ĨŧO/?? 🚽 🕑 😣				
Time	Node	Part Id	Job Name	Phase Name	<- CI CPU	2U% -> J Ovhd	< Disk	- I/O VDisk	> Other	Rtrn Code	Cncl Code	< S Date	Start	> Time	Stop Time	User Info	Prty	Share	Job Num	
09:59:00	zvse61b		Totals		40.2	4.8	9802	0	20428											
09:59:00	zvse61b	F1	POWSTART	IPWPOWER	1.6	0.4	366.0	0	8.0			05/21/2	20 07	:55:58			1	0	0	
09:59:00	zvse61b	FB	SECSERV	BSTPSTS	0.0	0.0	18.0	0	0			05/21/2	20 07	:55:57			2	0	0	
09:59:00	zvse61b	F3	VTAMSTRT	ISTINCVT	0.1	0.0	0	0	36.0			05/21/2	20 07	:56:01		SYSA	3	0	49844	
09:59:00	zvse61b	т1	BSTTVNET	BSTTVNET	0.1	0.0	2.0	0	19.0			06/04/2	20 08	:02:07			4	0	53418	
09:59:00	zvse61b	т2	BSTTFTPD	BSTTFTPS	() 0	0	0	0			06/04/2	20 08	:02:06			4	0	53419	
09:59:00	zvse61b	Z1	DMFSTART	DFHDFSIP	0.5	5 0.1	0	0	4.0			06/04/2	20 08	:02:55			5	0	53422	
09:59:00	zvse61b	R1	STARTVCS	IESVCSRV	0.1	0.0	0	0	0			06/04/2	20 08	:01:51			6	0	53420	
09:59:00	zvse61b	R2	STARTMAS	IESMASNM	0.2	0.0	0	0	0			06/04/2	20 08	:01:55			6	0	53421	
09:59:00	zvse61b	F2	CICSICCF	DFHSIP	0.3	0.0	0	0	0			05/21/2	20 07	:56:35		SYSA	7	0	49850	
09:59:00	zvse61b	01	CICSJA60	DFHSIP	0.4	0.0	2.0	0	10.0			05/26/2	20 20	:14:34			8	0	51255	
09:59:00	zvse61b	02	CICSJB60	DFHSIP	0.2	0.0	0	0	0			05/26/2	20 20	:14:44			8	0	51256	
09:59:00	zvse61b	F5	LIBRDIR	LIBR	1.8	8 0.4	2890	0	20291	0	10	06/04/2	20 09	:57:48	09:57:56	OPERATOR	9	100	53443	
09:59:00	zvse61b	F6	SCANVSM2	ARXREXX	23.3	3.5	6517	0	50.0	0	10	06/04/2	20 09:	:57:47	09:58:14		9	100	53442	
09:59:00	zvse61b	S1	BSTTINET	BSTTINET	0.3	0.0	0	0	2.0			06/04/2	20 08	:01:36			19	0	53417	
09:59:00	zvse61b	S2	STGPLAY	STGPLAY	11.3	0.3	7.0	0	8.0			06/04/2	20 09	:58:38			19	0	53439	

CICS monitoring

- DMF records generated by CICS (rectype 110)
- Velocity provides an exit that runs in the DMF partition to route CICS data to z/VM
- All other processing is performed on z/VM, saving precious GP CPU time
- Customers have the option to bypass the writing of the DMF data

									ES	SAVS	SEP	- VSE F	Partitior	n Perfo	ormance -	VM2	
Time	Node	Part Id	Job Name	Phase Name	<- CP CPU	U% -> Ovhd	< Disk	- I/O VDisk	> Other	Rtrn Code	Cncl Code	< Sta Date	art> Time	Stop Time	User Info	Prty	Share
07:10:00	zvse61b	Z1	DMFSTART	DFHDFSIP	0.2	0.0	0	0	1.0			01/20/20	07:27:55			6	0
07:10:00	zvse62b	Z1	DMFSTART	DFHDFSIP	0.2	0.0	0	0	1.0			01/29/20	04:21:55			6	0
07:10:00	zvse62c	Z1	DMFSTART	DFHDFSIP	0.2	0.0	50.0	0	1.0			01/23/20	05:17:55			5	0

61b=6.8, 62b=10.7, 62c=8.8 sustained total 650.000=700.000/day



TCP/IP monitoring

 Additional plugin written for each TCP/IP stack vendor



VSEMON Requirements

z/VSE 5.1+ for VSE system and partition data z/VSE 5.2+ for CICS

- z/VSE 6.1+ for TCP/IP data
 - z/VSE 6.2 is the only currently supported release
- VSEⁿ 6.3 from 21st Century Software
- VSE supplied SNMP agent with our plugins
 - Partition plugin
 - TCP/IP plugin, based on the stack in use
- BSI stack must be 258pre24 or higher
- CSI stack
 - TCP/IP for z/VSE 2.28 (strongly suggested)
 - See Server must also be configured and running
- For CICS, DMF must be running
 - Set to one minute interval
- **CICS** Performance and Statistics turned on
 - Set to one minute interval



Provided as a ZVPS installation package

Download from the website

When installed...

- A top level SFS directory is created (VMSYSVPS:VSEMON.)
- Transfer the BJB file to VSE
 - Respond to the SETPARM prompt
- Samples added to VMSYSVPS:VSEMON.
 - STARTMAS JCL, IESMASCF.Z, VSIDMF config



Plugin Implementation



Plugin Startup





CICS configuration

DFHSIT updates

DFHS	IT TYPE=CSECT,		*
	•••		
	MN=ON,	MONITORING ON	*
	MNCONV=YES,	MONITORING OF CONVERSATIONA	L *
	MNEXC=ON,	MONITORING EXCEPTION CLASS	*
	MNFREQ=001500,	MONITORING FREQUENCY	*
	MNPER=ON,	MONITORING PERFORMANCE CLASS	*
	MNSYNC=YES,	MONITORING SYNCPOINT	*
	MNTIME=LOCAL,	MONITORING TIME GMT	*
	• • •		
	STATRCD=ON,	STATISTICS RECORDING	*

Additional steps in the VSEMON User's Guide



DMF Updates

Update startup LIBDEF

// LIBDEF PHASE, SEARCH=(VSILIB.PHASE, SDL)

Add delay to the startup before DMF

// LIBDEF *,SEARCH=VSILIB.REXX
// EXEC REXX=VSIDELAY



DMF Updates

DMF configuration phase changes

DFHDMFM TABLE,		*
CATALOG=VELOCITY.US	SER.CATALOG, USE VSICAT	*
FILELIST=(VSE.SYSTE	EM.DFHDMFA,VSE.SYSTEM.DFHDMFB),	*
INTERVAL=0100,	1 MINUTES 0 SECONDS	*
LISTDSN=YES,	SHOW DATASETS WHEN DMF STARTS	*
SID=V62C,	SYSTEM IDENTIFIER	*
SIZE=16,	USE A 16M DATA SPACE	*
STATUS=ACTIVE,	DMF IS ACTIVE AT START	*
SUFFIX=SP,	THIS TABLE IS CALLED DFHDMFSP	*
TRACE=NO,	NO TRACE ACTIVITY	*
TRTABSZ=1024,	TRACE TABLE SIZE IS 1M	*
TYPE=0:255,	RECORD ALL DMF DATA RECORD TYPES	*
USAGE=40	REDUCE SPACE WHEN 40% FULL	





z/VSE System

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					ES	AV	SES - V	/SE	System	n Co	onfi	gura	atio	n -	VM	4		5	Í 🛛 🦯 🕗
Time	Node	<z vm<br="">VirtID</z>	Lvl	<logicalp Name</logicalp 	Nbr	<	M/ <model></model>	mod /CPs	el> / serial	<p Max</p 	arti Cur	tions Stat	8> Dyn	< Tot	-CPU Actv	Counts Quies	Inact	< Priority of Partitions	>
10:14:00	vsen63b	VSEN63B	1	VSIVM5	5	IBM	8562-A02	02	(40F782)	80	19	12	7	1	1	0	0	(100)=FA(100)=BG(100),O,F2,R,Z,T,	,F3,FB,F
10:14:00	vsen63c	VSEN63C	1	VSIVM5	5	IBM	8562-A02	02	(40F782)	80	18	12	6	1	1	0	0	(100)=FA(100)=BG(100), O, F2, R, Z, T,	,F3,FB,F
10:14:00	zvse61b	ZVSE61B	1	VSIVM5	5	IBM	8562-A02	02	(40F782)	80	20	12	8	1	1	0	0	(100)=FA(100)=BG(100), O, F2, R, Z, T,	,F3,FB,F
10:14:00	zvse61c	ZVSE61C	1	VSIVM5	5	IBM	8562-A02	02	(40F782)	80	18	12	6	1	1	0	0	0)=F5(100)=F4(100),BG,O,F2,R,Z,T,	,F3,FB,F
10:14:00	zvse62b	ZVSE62B	1	VSIVM5	5	IBM	8562-A02	02	(40F782)	80	19	12	7	2	2	0	0	0)=FA(100)=BG(100),F9,O,F2,R,Z,T,	,F3,FB,F
10:14:00	zvse62c	ZVSE62C	1	VSIVM5	5	IBM	8562-A02	02	(40F782)	80	18	12	6	1	1	0	0	(100)=FA(100)=BG(100), O, F2, R, Z, T,	,F3,FB,F
10:14:00	BSI62	VSE62	1	JCB	1	IBM	1090-306	02	(23450)	120	18	12	6	1	1	0	0	100)=F5(100),F2,F3,R,Z,F4,S,O,F7	,FB,BG,F

			ES/	AVS	EC -	VSE	Syst	em P	erfor	manc	e - VM4	Ļ	Ĩŧ 🛛 🧳 🖢 🖸 🕻
Time	Node	Pages In	/Sec Out	<rate SVC</rate 	e/Sec> DSP	<cpu (<br="">Total</cpu>	Utiliza Mstr	tion> Spin	All Bound	Pct NP	Seconds	Samples	
10.14.00													
10:14:00	vsen63b	0	0	270	339	0.5	0.2	0	94.7	50.0	59.8	1	
10:14:00	vsen63c	0	0	265	294	0.6	0.3	0	95.2	59.7	60.0	1	
10:14:00	zvse61b	0	0	390	405	1.0	0.5	0	92.7	52.6	60.0	1	
10:14:00	zvse61c	0	0	397	410	1.1	0.7	0	92.8	64.6	59.8	1	
10:14:00	zvse62b	0	0	19K	5933	31.5	16.8	0.5	77.4	53.4	59.6	1	
10:14:00	zvse62c	0	0	397	409	0.8	0.5	0	93.1	60.1	60.0	1	
10:14:00	BSI62	0	0	161	178	0.7	0.4	0	98.7	57.9	60.1	1	

\sim		ESA	VSE	C2 - \	/SE S	Syste	m Pe	rforn	nance	per CP	U - VM4	⊂ 🚛 🛯 🥖 🛃 🗖 🤅
			Disp	<cpu th="" u<=""><th>tiliza</th><th>tion></th><th>A11</th><th>Pct</th><th></th><th></th><th></th><th></th></cpu>	tiliza	tion>	A11	Pct				
Time	Node	CPU	/Sec	Total	Mstr	Spin	Bound	NP	Seconds	Samples		
10:14:00	vsen63b	0	338	0.5	0.2	0	94.7	49.7	60	1		
10:14:00	vsen63c	0	294	0.6	0.3	0	95.2	59.7	60	1		
10:14:00	zvse61b	0	405	1.0	0.5	0	92.6	52.8	60	1		
10:14:00	zvse61c	0	410	1.1	0.7	0	92.8	64.6	60	1		
10:14:00	zvse62b	0	2837	15.2	8.0	0.2	40.6	52.6	60	1		
10:14:00	zvse62b	1	3100	16.4	8.8	0.3	36.7	54.1	59	1		
10:14:00	zvse62c	0	409	0.8	0.5	0	93.1	60.2	60	1		
10:14:00	BSI62	0	169	0.6	0.4	0	98.8	58.8	60	1		

z/VSE System



Parameters

ESAVSEC Parameters	
Start Date	20/02/10
Start Time	03:00
End Date	20/02/10
End Time	04:00
User Class	
Node name	zvse62b
Click to build direct URL	Build URL

Submit

Reset Restart



\checkmark	ESA	WSE	с-	VSE	E Sys	stem	Perfo	rmar	nce -	Demo		- T¥ 🕑 🛛	/ 🕑 🚽 🗖 🕻
Time	Node	Pages	/Sec	<rate< th=""><th><pre>/Sec> DSP</pre></th><th><cpu th="" u<=""><th>Jtiliza Metr</th><th>tion></th><th>All</th><th>Pct</th><th>Seconda</th><th>Samples</th><th></th></cpu></th></rate<>	<pre>/Sec> DSP</pre>	<cpu th="" u<=""><th>Jtiliza Metr</th><th>tion></th><th>All</th><th>Pct</th><th>Seconda</th><th>Samples</th><th></th></cpu>	Jtiliza Metr	tion>	All	Pct	Seconda	Samples	
04:01:00	zvse62b	0	0.0	4294	3147	33.6	12.3	0	0	36.6	60.7	1	
04:00:00	zvse62b	0	0	4014	2969	33.9	10.9	0	0	32.1	60.0	1	
03:59:00	zvse62b	0	0	4139	3043	33.0	11.2	0	0	34.0	60.2	1	
03:58:00	zvse62b	0	0	4199	3058	32.1	11.3	0	0.0	35.1	60.3	1	
03:57:00	zvse62b	0	0	4070	3006	32.5	11.1	0	10.0	34.2	59.1	1	
03:56:00	zvse62b	0	0	4652	3563	26.1	13.0	0	46.2	40.2	59.6	1	
03:54:00	zvse62b	ő	ő	4587	3527	25.7	12.8	0	47.2	49.8	60.5	1	
03:53:00	zvse62b	0	ō	4652	3543	25.9	12.9	ō	48.3	49.7	59.2	ī	
03:52:00	zvse62b	0	0	4698	3607	26.2	13.1	0	47.4	49.8	60.6	1	
03:51:00	zvse62b	0	0	5388	3765	29.2	14.4	0	42.3	49.5	59.8	1	
03:50:00	zvse62b	0	0	11K	5365	54.9	26.3	0	0.7	47.9	60.2	1	
03:49:00	zvse62b	0	0	12K	5632	56.2	27.1	0	2.2	48.2	60.0	1	
03:48:00	zvse62b	0	0	11K	5638	55.1	26.7	0	2.1	48.6	59.5	1	
03:47:00	zvse62b	0	0	12K	5551	57.1	27.3	0	0.9	47.7	60.1	1	
03:46:00	zvse62b	0	0	11K	5785	51.7	26.3	0	8.7	50.8	59.7	1	
03:45:00	zvse62b	0	0	4/85	3658	27.1	13.5	0	43.2	49.8	60.0	1	
03:43:00	zvse62b	0	0	5002	3819	27.8	13.8	0	45.0	49.9	60.0	1	
03:42:00	zvse62b	õ	õ	4728	3627	26.8	13.2	ő	45.9	49.4	59.4	1	
03:41:00	zvse62b	0	0	6055	4300	33.1	16.8	0	27.4	50.8	60.7	1	
03:40:00	zvse62b	0	0	4667	3541	26.4	13.1	0	45.2	49.6	60.0	1	
03:39:00	zvse62b	0	0	4898	3743	27.5	13.7	0	43.7	49.7	59.6	1	
03:38:00	zvse62b	0	0	4512	3454	25.6	12.8	0	44.7	49.8	60.0	1	
03:37:00	zvse62b	0	0	4617	3479	26.7	13.1	0	33.2	49.2	60.1	1	
03:36:00	zvse62b	0	0	4688	3549	26.9	13.3	0	34.7	49.7	60.0	1	
03:35:00	zvse62b	0	0	4406	3361	26.1	12.8	0	33.9	49.1	60.6	1	
03:34:00	zvse62b	0	0	438/	3342	25.8	12.8	0	31.4	49.6	59.8	1	
03:33:00	zvse62b	0	0	4300	3313	25.0	12.0	0	27.9	49.1	59.5	1	
03:31:00	zvse62b	0	ő	4528	3436	26.5	13.5	0	30.0	50.8	60.5	1	
03:30:00	zvse62b	0	0	4638	3543	26.0	13.0	0	47.0	49.9	59.8	1	
03:29:00	zvse62b	0	0	4643	3576	26.7	13.2	0	42.1	49.5	59.7	1	
03:28:00	zvse62b	0	0	4632	3511	25.7	12.8	0	47.9	49.8	60.2	1	
03:27:00	zvse62b	0	0	4812	3661	26.8	13.3	0	45.9	49.8	59.1	1	
03:26:00	zvse62b	0	0	4817	3685	26.8	13.3	0	45.6	49.8	61.0	1	
03:25:00	zvse62b	0	0	4814	3677	26.9	13.4	0	46.0	49.8	60.0	1	
03:24:00	zvse62b	0	0	4968	3721	59.4	14.4	0	4.4	24.2	59.9	1	
03:23:00	zvse62b	0	0	4682	3504	60.4	12.8	0	0	21.1	59.5	1	
03:22:00	zvse62b	0	0	46/9	3607	58.6	22.1	0	0.0	23.9	60.1	1	
03:21:00	zvse62b	0	0	118	5715	56.4	26.9	0	0	40.1	59.2	1	
03:19:00	zvse62b	ő	ő	128	5409	56.3	26.8	ő	ő	47.6	60.7	1	
03:18:00	zvse62b	0	0	11K	5521	55.6	26.3	0	0	47.3	59.4	1	
03:17:00	zvse62b	0	0.0	11K	5681	54.1	26.7	0	0	49.3	59.8	1	
03:16:00	zvse62b	0	0.0	8134	4716	42.3	20.7	0	0	48.9	60.3	1	
03:15:00	zvse62b	0	0	4100	3014	29.6	11.3	0	0	38.0	60.3	1	
03:14:00	zvse62b	0	0	3654	2670	22.5	10.0	0	0	44.4	59.6	1	
03:13:00	zvse62b	0	0	3580	2614	22.8	9.9	0	0	43.4	60.1	1	
03:12:00	zvse62b	0	0	3633	2682	22.5	10.1	0	0	45.1	59.9	1	
03:11:00	zvse62b	0	0	3999	2936	27.8	11.0	0	0	39.6	50.5	1	
03:10:00	zvse62D	0	0	4180	3080	33 6	11.8	0	0.0	29.1	59.9	1	
03:08:00	zvse62b	0	0	3962	2938	32.4	11.0	0	0	34.1	59.5	1	
03:07:00	zvse62b	ő	0	4005	2955	31.6	11.2	0	0	35.5	58.9	1	
03:06:00	zvse62b	0	0	3309	2447	19.5	9.4	ő	ő	48.2	61.5	1	
03:05:00	zvse62b	0	0	3915	2922	30.3	11.8	0	0.0	38.8	59.7	1	
03:04:00	zvse62b	0	0	4096	2973	28.0	11.4	0	0	40.9	59.6	1	
03:03:00	zvse62b	0	0	4220	3112	32.6	11.8	0	0	36.3	60.0	1	
03:02:00	zvse62b	0	0	4061	2994	31.1	11.4	0	0.0	36.5	60.8	1	
03:01:00	zvse62b	0	0.0	4231	3095	31.9	12.1	0	0	37.8	59.4	1	

z/VSE Partitions

ESAVSEP - VM4 🛛 🔮 🥖 🛽 😫

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Time	Node	Part	Job Name	Phase Name	<- CPU	U% -> Ovhd	< Disk	I/O VDisk	> Other	Rtrn	Cncl	< Sta	art> Time	Stop Time	User Info	Prtv S	hare	Job Num
10:01:00) zvse61b		Totals		3.9	0.6	230.0	0	16.0									
10:01:00	zvse61b	Fl	POWSTART	IPWPOWER	0.0	0.0	19.0	0	15.0			05/21/20	07:55:58			1	0	0
10:01:00) zvse61b	FB	SECSERV	BSTPSTS	0	0	0	0	0			05/21/20	07:55:57			2	0	0
10:01:00) zvse61b	F3	VTAMSTRT	ISTINCVT	0.0	0.0	0	0	0			05/21/20	07:56:01		SYSA	3	0	49844
10:01:00	2vse61b	S1	BSTTINET	BSTTINET	0.6	0.1	0	0	0			06/04/20	08:01:36			4	0	53417
10:01:00) zvse61b	T1	BSTTVNET	BSTTVNET	0.3	0.1	0	0	0			06/04/20	08:02:07			5	0	53418
10:01:00) zvse61b	T2	BSTTFTPD	BSTTFTPS	0	0	0	0	0			06/04/20	08:02:06			5	0	53419
10:01:00) zvse61b	Z1	DMFSTART	DFHDFSIP	0.1	0.0	0	0	1.0			06/04/20	08:02:55			6	0	53422
10:01:00) zvse61b	R1	STARTVCS	IESVCSRV	0.0	0.0	0	0	0			06/04/20	08:01:51			7	0	53420
10:01:00	2vse61b	R2	STARTMAS	IESMASNM	0.2	0.0	0	0	0			06/04/20	08:01:55			7	0	53421
10:01:00	2vse61b	F2	CICSICCF	DFHSIP	0.1	0.0	9.0	0	0			05/21/20	07:56:35		SYSA	8	0	49850
10:01:00) zvse61b	01	CICSJA60	DFHSIP	1.7	0.3	183.0	0	0			05/26/20	20:14:34			9	0	51255
10:01:00	2vse61b	02	CICSJB60	DFHSIP	0.8	0.1	19.0	0	0			05/26/20	20:14:44			9	0	51256
10:01:00	2vse61c		Totals	TRUBOURD	57.4	7.8	18740	0	442.0			05 /01 /00						
10:01:00	2VSe61C	FI	POWSTART	IPWPOWER	0.1	0.0	34.0	0	3.0			05/21/20	08:07:43			1	0	0
10:01:00	2vse61c	FB	SECSERV	BSTPSTS	0	0	0	0	0			05/21/20	08:07:43		au a 1	2	0	0
10:01:00	2VSe61C	F 3	VTAMSTRT	ISTINCVT	0.0	0.0	0	0	0			05/21/20	08:07:50		SYSA	3	0	50933
10:01:00	2VSe61C	T1 70	TCPIPOO	IPNET	1.1	0.1	0	0	0			05/22/20	10:30:32			4	0	51227
10:01:00	J ZVSe61C	12	SVSESRVR	SVSESRVR	0.0	0.0	10	0				05/23/20	16:40:03			4	0	51554
10:01:00	2Vse61c	21	DMFSTART	DFHDFSIP	0.2	0.0	16.0	0	1.0			05/22/20	10:31:55			5	0	51231
10:01:00	zvse61c	RI	STARTVCS	TESVCSRV	0.0	0.0	0	0	0			05/22/20	10:31:09			6	0	51229
10:01:00	2vse61c	R2	STARTMAS	DEUCID	0.2	0.0	0	0	0			05/23/20	10:45:30		CVCA	5		51559
10:01:00	2vse61c	F 2	CICSICCE	DFHSIP	1.0	0.0	206 0					05/21/20	00:00:13		DIDA	,		50937
10:01:00	2vse61c	V1	2 Tob	Stops V	2.6	0.2	200.0	0	204 0			05/21/20	00:00:20			20		20329
10:01:00	2vse61c	11	2 JOD	steps V	2.5	2.4	12550	0	151 0							20		
10:01:00	2vseoic	12	3 Job	steps V	24.9	2.4	2700	0	02 0							20	0	
10.01.00	zvseoic	15	Totals	sceps v	20.7	0.4	511 0	0	1326							20		
10.01.00	2vse02b	F1	DOWSTART	TENDOWED	0 1	0.4	48 0	0	6 0			05/21/20	08.09.14			1	0	0
10.01.00	2vse02b	FB	SECSERV	BSTDSTS	0.1	0.0	40.0	0	0.0			05/21/20	08.09.14			2	0	0
10:01:00	zvse62b	F3	VTAMSTRT	TSTINCUT	0.0	0.0	0	0	0			05/21/20	08:09:28		SVSA	3	0	36114
10:01:00	zvse62b	T1	BSTTINET	BSTTINET	0.3	0.1	ő	0	ő			05/21/20	08:09:31		DIDN	4	0	36116
10:01:00	zvse62b	T2	BSTTVNET	BSTTVNET	0.1	0.0	0	0	0			05/21/20	08:10:01			4	0	36117
10:01:00	zvse62b	73	BSTTFTPD	BSTTFTPS	0.1	0.0	0	0	0			05/21/20	08:10:01			4	0	36118
10:01:00	zvse62b	21	DMESTART	DEHDESTP	0.1	0.0	0	0	1.0			06/05/20	07:44:50			5	0	44145
10:01:00	zvse62b	R1	STARTVCS	IESVCSBV	0.0	0.0	0	0				05/21/20	08:10:07			6	0	36122
10:01:00	zvse62b	R2	STARTMAS	IESMASNM	0.1	0.0	0	0	0			05/21/20	08:10:06			6	ñ	36123
10:01:00	zvse62b	F2	CICSICCE	DFHSTP	0.0	0.0	0	0	0			05/21/20	08:09:51		SYSA	7	0	36120
10:01:00	zvse62b	01	CICSJA95	DFHSIP	0.2	0.1	ő	0	0			05/21/20	08:10:07			8	0	36121
10:01:00	zvse62b	F4	2 Job	steps V	0.1	0.0	308.0	0	878.0							9	100	
10:01:00	zvse62b	FS	LIBRDIRS	LIBR	0.0	0.0	155.0	0	441.0	0	10	06/05/20	10:00:00	10:00:00)	9	100	44201
	2100020				0.0	0.0		, v			10				-	,	200	



z/VSE Partition drill down

ESAVSEP - VM4 🛛 😰 🗾 🧪 🕕 😵

ESAVSEP - VSE Partition Performance - VM4														-				
		Part	Job	Phase	<- CPU	J& ->	<	- I/O -	>	Rtrn	Cncl	< Sta	art>	Stop				Job
Time	Node	Id	Name	Name	CPU	Ovhd	Disk	VDisk	Other	Code	Code	Date	Time	Time	User Info	Prty	Share	Num
10:01:00	zvse61b		Totals		3.9	0.6	230.0	0	16.0									
10:01:00	zvse61b	Fl	POWSTART	IPWPOWER	0.0	0.0	19.0	0	15.0			05/21/20	07:55:58			1	0	0
10:01:00	zvse61b	FB	SECSERV	BSTPSTS	0	0	0	0	0			05/21/20	07:55:57			2	0	0
10:01:00	zvse61b	F3	VTAMSTRT	ISTINCVT	0.0	0.0	0	0	0			05/21/20	07:56:01		SYSA	3	0	49844
10:01:00	zvse61b	51	BSTTINET	BSTTINET	0.6	0.1	0	0	0			06/04/20	08:01:36			4	0	53417
10:01:00	zvse61b	T1 m2	BSTTVNET	BSTTVNET	0.3	0.1	0	0	0			06/04/20	08:02:07			3	0	52410
10.01.00	zvse61b	21	DMPSTADT	DENDECTD	0 1	0 0	0	0	1 0			06/04/20	08:02:08			5	0	53419
10.01.00	zvse61b	P1	STARTUCS	TESUCSEV	0.1	0.0	0	0	1.0			06/04/20	08.01.51			7	0	53420
10:01:00	zvse61b	R2	STARTMAS	TESMASNM	0.2	0.0	ő	ő	0			06/04/20	08:01:55			7	ő	53421
10:01:00	zvse61b	F2	CICSICCE	DFHSIP	0.1	0.0	9.0	ő	ő			05/21/20	07:56:35		SYSA	8	ő	49850
10:01:00	zvse61b	01	CICSJA60	DFHSIP	1.7	0.3	183.0	ő	ō			05/26/20	20:14:34		01011	9	0	51255
10:01:00	zvse61b	02	CICSJB60	DFHSIP	0.8	0.1	19.0	0	0			05/26/20	20:14:44			9	0	51256
10:01:00	zvse61c		Totals		57.4	7.8	18740	0	442.0									
10:01:00	zvse61c	F1	POWSTART	IPWPOWER	0.1	0.0	34.0	0	3.0			05/21/20	08:07:43			1	0	0
10:01:00	zvse61c	FB	SECSERV	BSTPSTS	0	0	0	0	0			05/21/20	08:07:43			2	0	0
10:01:00	zvse61c	F3	VTAMSTRT	ISTINCVT	0.0	0.0	0	0	0			05/21/20	08:07:50		SYSA	3	0	50933
10:01:00	zvse61c	т1	TCPIP00	IPNET	1.1	0.1	0	0	0			05/22/20	10:30:32			4	0	51227
10:01:00	zvse61c	т2	SVSESRVR	SVSESRVR	0.0	0.0	0	0	0			05/23/20	16:40:03			4	0	51554
10:01:00	zvse61c	Z1	DMFSTART	DFHDFSIP	0.2	0.0	16.0	0	1.0			05/22/20	10:31:55			5	0	51231
10:01:00	zvse61c	Rl	STARTVCS	IESVCSRV	0.0	0.0	0	0	0			05/22/20	10:31:09			6	0	51229
10:01:00	zvse61c	R2	STARTMAS	IESMASNM	0.2	0.0	0	0	0			05/23/20	16:45:30			6	0	51559
10:01:00	zvse61c	F2	CICSICCF	DFHSIP	0.0	0.0	0	0	0			05/21/20	08:08:13		SYSA	7	0	50937
10:01:00	zvse61c	01	CICSJA68	DFHSIP	1.8	0.2	206.0	0	0			05/21/20	08:08:28			8	0	50938
10:01:00	zvse61c	¥1	2 Job	steps V	2.5	0.3	2226	0	204.0							20	0	
10:01:00	zvse61c	¥2	3 Job	steps V	24.9	3.4	12558	0	151.0							20	0	
10:01:00	zvse61c	¥2	SCANVSM2	ARXREXX	2.4	0.4	2253	0	14.0			06/05/20	10:00:48		VSM2	20	0	54781
10:01:00	zvse61c	¥2	SCANVSM2	ARXREXX	11.2	1.6	5138	0	48.0	0	10	06/05/20	10:00:26	10:00:48	VSM2	20	0	54781
10:01:00	zvse61c	¥2	SCANVSM2	ARXREXX	11.2	1.5	5167	0	89.0	0	10	06/05/20	10:00:01	10:00:26	VSM2	20	0	54781
10:01:00	zvse61c	¥3	3 Job	steps V	26.7	3.6	3700	0	83.0							20	0	
10:01:00	zvse62b		Totals	TRUDOUTD	1.0	0.4	511.0	0	1326			05/01/00	00.00.14					
10:01:00	zvse62b	PD PD	CRCCPRU	Dembere	0.1	0.0	40.0	0	0.0			05/21/20	08:09:14			1	0	0
10:01:00	zvse62b	10	UTAMOTOT	DSTPSTS	0 0	0 0	0	0	0			05/21/20	08:09:14		CVCN	2	0	26114
10.01.00	zvse62b	r 3 771	BETTINET	BETTINET	0.0	0.0	0	0	0			05/21/20	08:09:28		SISA	3	0	36116
10:01:00	zvse62b	72	BSTTVNET	BSTTVNET	0.1	0.0	0	0	0			05/21/20	08:10:01			4	0	36117
10:01:00	zvse62b	773	BSTTFTPD	BSTTFTPS	0.1	0.0	0	0	0			05/21/20	08:10:01			4	0	36118
10:01:00	zvse62b	z1	DMESTART	DEHDESTP	0.1	0.0	0	0	1.0			06/05/20	07:44:50			5	0	44145
10:01:00	zvse62b	R1	STARTVCS	IESVCSRV	0.0	0.0	0	ő	0			05/21/20	08:10:07			6	0	36122
10:01:00	zvse62b	R2	STARTMAS	IESMASNM	0.1	0.0	ő	ő	ő			05/21/20	08:10:06			6	ő	36123
10:01:00	zvse62b	F2	CICSICCF	DFHSIP	0.0	0.0	0	0	0			05/21/20	08:09:51		SYSA	7	0	36120
10:01:00	zvse62b	01	CICSJA95	DFHSIP	0.2	0.1	0	ō	0			05/21/20	08:10:07			8	0	36121
10:01:00	zvse62b	F4	2 Job	steps V	0.1	0.0	308.0	0	878.0							9	100	
10:01:00	zvse62b	F5	LIBRDIR3	LIBR	0.0	0.0	155.0	0	441.0	0	10	06/05/20	10:00:00	10:00:00		9	100	44201



z/VSE System



z/VSE System



Our Enterprise View shows activity from multiple z/VM LPARs on a single screen

	Today is Saturday 13 J	un 2020	'		
Click an LPAR to		r E	nterprise	Performance	Summary
see zVIFW for	VM2				Expand
	<u>VM2</u> 14:59 <u>IFL</u>	Total (1)	1.09%		
that I PAR			VSE System	15	
	zvse61c	28.15%			
	zvse62b	28.14%			
	zvse62c	27.17%			
	<u>Win</u>	27.12%			
Click a V/SE system	ZVSCOID	20.97% 8 Li	inux Nodes(z/VN	A-Guests)	
CIICK a VSE System	DOCKER (1)	2.25%		1-Guests)	
to coo that	redhat6x (1)	0.49%			
to see that	<u>s11s2ora</u> (2)	0.40%			
	redhat6 (1)	0.12%			
VSE	redhat6S (1)	0.12%			
	<u>redhat62</u> (1)	0.12%			
	redhat6M (1)	0.08%			
	<u>sles12</u> (1)	0.03%	N. L. (D. 4. IL		
	1:	2 Linux	x Nodes(Distribu	ited Servers)	
S O F T W A R E	$\frac{1111029}{1000}(3)$	0 24%			
	<u>mongooz</u> (2)	0.24 /0			

MyVSE View

Clicking on a VSE system name...

MYVSE	2 🖻	/ 0	8																
🔽 ESA	VSE	2 - V	SE S	ystem	Perf	orman	ce pe	r CPL	J - VM	2 📋	Í 🛯 🥖	'🕑 🚽					ES/	AVSE	SES - VSE System Configuration - VM2 🛛 🛛 🗐 🌽 😨 😓 🖸 🤅
Time	Nod	e	CPU	Disp /Sec	<ci Tot</ci 	PU Util tal Ma	lizat: str §	on> Spin	All Bound	Pc N	t P Secon	ds Sar	nples	Time	Node	<z v<br="">VirtID</z>	M> Lvl	<logica Name</logica 	gicalPart> <cpu model=""> <partitions> <cpu counts=""> e Nbr <ibm <model="">/CPs/ serial Max Cur Stat Dyn Tot Actv Quies Inact < Priority of Pa</ibm></cpu></partitions></cpu>
15:07:00) zvs	e61c	0	423	:	1.2 (0.8	0	98.7	67.	4	60	1	15:07:00	zvse61c	ZVSE61C	1	VSIVM5	VM5 5 IBM 8562-A02 02 (40F782) 80 18 12 6 1 1 0 0 0)=F5(100)=F4(100),BG,
		E	SA	/SE	C - \	/SE S	Syst	em	Perf	orm	ance	- VM	2		110	2			VSE CPU Utilization by Node 🛛 🙀 🔍 🚇 🥜 🥹 😓 🗨
Time 15:07:00	Nod) zvs	e e61c	Page Ir 	es/Sec 0 Out 0 0	<rat SV(</rat 	ce/Sec> C DSP 7 423	> <cpi Tota </cpi 	U Uti:	lizati str S D.8	on> pin 0	All Bound 98.7	Pct NP 67.4	Secon 60	ds Sample .1	s - 1			70 60	0 2 zvse61c
		E	SAV	SEF	- V	SE P	arti	tion	Per	form	ance	- VN	2	_	TI ()	'₽ ↓ [50 -	0
Time	Nod	e	Part	Job Name		Phase Name	<.	CPU CPU (≹ -> < Ovhd	Disk	I/O VDisk C	>] ther (Rtrn Cn Code Co	cl < de Date	Start Time	-> Sto Tim	p uoi	40 -	0
15:07:01 15:07:01 15:07:01 15:07:01 15:07:01 15:07:01 15:07:01 15:07:01 15:07:01 15:07:01) 2VS) 2VS) 2VS) 2VS) 2VS) 2VS) 2VS) 2VS) 2VS) 2VS	e61c e61c e61c e61c e61c e61c e61c e61c	F1 FE F3 T1 T2 Z1 R1 R2 F2 O1	Tota POWS SECS VTAM TCPI SVSE DMFS STAR STAR CICS	ls TART ERV SSTRT P00 SRVR TART TVCS TMAS ICCF JA68	IPWPOV BSTPS7 ISTINC IPNET SVSESI DFHDFS IESVCS IESMAS DFHSII DFHSII	WER IS CVT RVR SIP SRV SNM P	1.0 0.0 0.5 0.0 0.2 0.0 0.2 0.0 0.2 0.0	0.2 0.0 0.1 0.0 0.1 0.0 0.0 0.0 0.0	13.0 0 0 0 13.0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	1.0 0 0 0 0 0 1.0 0 0 0 0		05/21/ 05/21/ 05/22/ 05/23/ 05/22/ 05/22/ 05/23/ 05/21/	20 08:07: 20 08:07: 20 08:07: 20 10:30: 20 16:40: 20 10:31: 20 16:45: 20 08:08: 20 08:08:	43 43 50 32 03 55 09 30 13 28	CPU Utilizat	30 20 10 0	
																		14:38	??????????????????????????????????????



MyVSE View

Load the MyVSE view to see all VSE systems

MYVSE 🕐 🧮 🥖 🛽 🔇

Image Operating Op	\checkmark	ESAVS	EC2 - VSI	E System	Perfo	rmance	e per CPl	J - VM2	୕୕୲ୡୄୄୖୄ୴ୄୖୄୖ୷ୄୄୖୄୄ୰ 🗐 🚺	3					ESA\	/SES - VS	E Syster	n Config	juratio	n - VM2	2				1) / () 🖡 🗆 😢
No. 100 0 110 0 110 0 110 0 100 100	Time	Node	Disp CPU /Sec	<cpu utili<br="">Total Mst</cpu>	zation> r Spin	All Bound	NP Seconds	Samples		Time 1	Node	<z vm-<br="">VirtID</z>	> <logicalp Lvl Name</logicalp 	Nbr <ibm< th=""><th>/<model< th=""><th>VU model >/CPs/ seria</th><th>> <part 1 Max Cur</part </th><th>itions> Stat Dyn</th><th><cpu Tot Actv</cpu </th><th>Counts</th><th>> act <</th><th>Priority o</th><th>of Partitio</th><th>ons></th><th></th><th></th><th></th></model<></th></ibm<>	/ <model< th=""><th>VU model >/CPs/ seria</th><th>> <part 1 Max Cur</part </th><th>itions> Stat Dyn</th><th><cpu Tot Actv</cpu </th><th>Counts</th><th>> act <</th><th>Priority o</th><th>of Partitio</th><th>ons></th><th></th><th></th><th></th></model<>	VU model >/CPs/ seria	> <part 1 Max Cur</part 	itions> Stat Dyn	<cpu Tot Actv</cpu 	Counts	> act <	Priority o	of Partitio	ons>			
ESAVEEC - VSE System Performance - VM2 VSE CPU Utilization by Node Time Note	10:10: 10:10: 10:10: 10:10:	00 zvse61b 00 zvse61c 00 zvse62b 00 zvse62c	0 1103 0 941 0 577 0 758	5.4 1. 3.7 1. 1.0 0. 1.7 0.	7 0 7 0 5 0 8 0	94.1 3 96.0 4 98.7 4 98.0 4	1.4 60 6.8 60 7.9 61 9.7 60	1 1 1		10:10:00 10:10:00 10:10:00 10:10:00	zvse61b zvse61c zvse62b zvse62c	ZVSE61B ZVSE61C ZVSE62B ZVSE62C	1 VSIVM5 1 VSIVM5 1 VSIVM5 1 VSIVM5 1 VSIVM5	5 IBM 5 IBM 5 IBM 5 IBM	8562-A0 8562-A0 8562-A0 8562-A0	2 02 (40F782 2 02 (40F782 2 02 (40F782 2 02 (40F782 2 02 (40F782) 80 20) 80 18) 80 19) 80 18	12 8 12 6 12 7 12 6	1 1 1 1 1 1 1 1	0 0 0	0 00)=FA(1 0 0)=F5(10 0 (100)=FA 0 (100)=FA	00)=BG(100) 0)=F4(100) (100)=BG(2) (100)=BG(2)	0),0,F2,R,3),BG,0,F2,1 100),0,F2,1 100),0,F2,1	:,T,S,F3,FB,F ;,Z,T,F3,FB,F ;,Z,T,F3,FB,F ;,Z,T,F3,FB,F			
Page / See Page /				ESA	VSEC ·	VSE S	System P	erformand	ce - VM2			ĩi 🛯 🥖	20 🗧 🖸 😢	\checkmark				VSE CF	PU Utili	zation	by Node					0/0	
ESAUE CPU 0/40 Base CPU 0/40	Time 10:10: 10:10: 10:10: 10:10:	Node 00 zvse61b 00 zvse62b 00 zvse62c	Pages/Sec In Out 0 0 0 0 0 0 0 0 0 0	<pre>cRate/Sec> SVC DSP</pre>	<cpu util<br="">Total Ms 5.4 1 3.6 1 1.0 0 1.7 0</cpu>	ization> tr Spin .7 0 .7 0 .5 0 .8 0	All Bound 94.1 33 96.0 44 98.7 47 98.0 49	Seconds .4 60.0 .8 60.5 .9 60.9 .6 60.0	Samples 1 1 1 1 1					100 90 80	21 21 21 21	/se61b /se61c /se62b /se62c											
Clip Data Solution Clip Distribution				ESA	/SED		artition D	orformon	00 V/M2					70 -												_	_
101:00 vresh P PORAL 4.8 0.8 0.1.0 101:00 vresh P PORAL P PORAL 0.0 0.5/21/20 0.755:00 1 0 0.672/20 0.0 0.0 0.5/21/20 0.755:00 1 0 0.672/20 0.0 0.0 0.5/21/20 0.755:00 1 0 0 0.672/20 0.0 0.5/21/20 0.755:00 1 0 0 0.672/20 0.0 0.5/21/20 0.755:00 1 0 0 0.670/20 0.0 0.670/20 0.0 0.670/20 0.0 0.670/20 0.0 0.670/20 0.0 0.670/20 0.0 0.670/20 0.0 0.670/20 0.0 0.670/20 0.0 0.670/20 0.0 0.670/20 0.0 0.0 0.670/20 0.0 0.0 0.670/20 0.0 0.0 0.0 0.670/20 0.0 0.0 0.670/20 0.0 <	Time	Node	Part Job Id Name	Phase Name	<- CPU% CPU 0	voc P -> < vhd Dis	ATTITION P	> Rtrn Cncl r Code Code	<pre>< Start> St Date Time Ti </pre>	op me User In	fo	Prty Sh	Job are Num	60												_	
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10:10:00 zvse61c R1 STARTVGS IESVCSRV 0.0 0.0 0 05/23/20 10:31:09 6 0 51229 10:10:00 zvse61c R2 STARTMAS IESMASMM 0.2 0.0 0 05/23/20 10:31:09 6 0 51229 10:10:00 zvse61c R2 STARTMAS IESMASMM 0.2 0.0 0 05/23/20 16:45:30 6 0 51559 10:10:00 zvse61c P2 CICSICCP DFIRIP 0.0 0 0 05/21/20 08:08:13 SYSA 7 0 50937 10:10:00 zvse61c 01 CICSJA68 DFRSTP 1.7 0.3 203.0 0 0 05/21/20 08:08:128 8 0 50938	10:10: 10:10: 10:10: 10:10: 10:10: 10:10: 10:10:	00 zvse61c 00 zvse61c 00 zvse61c 00 zvse61c 00 zvse61c 00 zvse61c 00 zvse61c	Total F1 POWST FB SECSE F3 VTAMS T1 TCPIP T2 SVSES Z1 DMFST	B ART IPWPOWE RV BSTPSTS TRT ISTINCV D0 IPNET RVR SVSESRV ART DFHDFSI	3.2 R 0.0 T 0.0 I.1 R 0.0 P 0.2	0.5 249. 0.0 0.0 0.2 0.0 0.0 16.		0 0 0 0 0 0	05/21/20 08:07:43 05/21/20 08:07:43 05/21/20 08:07:50 05/22/20 10:30:32 05/23/20 16:40:03 05/22/20 10:31:55	SYSA		1 2 3 4 4 5	0 0 0 0 0 50933 0 51227 0 51554 0 51231	20													
10:10:00 zvse62b F1 POWSTART IPWPOWER 0.0 0.0 0 0 05/21/20 08:09:14 1 0 0 0 0 0 0.0 0 0 0.0 0 0 0 0.0 0 0 0	10:10: 10:10: 10:10: 10:10: 10:10: 10:10:	00 zvse61c 00 zvse61c 00 zvse61c 00 zvse61c 00 zvse61c 00 zvse62b	R1 START R2 START F2 CICSI 01 CICSJ Total F1 POWST	VCS IESVCSR MAS IESMASN CCF DFHSIP A68 DFHSIP ART IPWPOWE	V 0.0 M 0.2 0.0 1.7 0.8 R 0.0	0.0 0.0 0.3 233. 0.3 0.0		0 0 0 0 0 0	05/22/20 10:31:09 05/22/20 16:45:30 05/21/20 08:08:13 05/21/20 08:08:28 05/21/20 08:09:14	SYSA		6 6 7 8	0 51229 0 51559 0 50937 0 50938 0 0 0	10	1	3 . 6 . 6	·6 .1		1.0	-3 -A		1 -8				1 .0	



MyVSE View



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07:39:00	zvse61b	0	0	1699	1472	17.
07:39:00	zvse61c	0	0	682	711	5.
07:39:00	zvse62b	0	0	4840	3715	27.
07:39:00	BSI62	0	0	231	201	0.

			E	SAVSE
		Part	Job	Phase
lime	Node	Id	Name	Name
7.29.00	BCT62		Totale	
7.39.00	BST62	FR	SECSERV	BSTDSTS
7.39.00	BST62	FI	POWSTART	TEWDOWER
7:39:00	BST62	F2	CICSICCE	DEHSTP
7:39:00	BST62	F3	UTAMSTRT	TSTINCUT
7.39.00	BST62	F7	OPTITAPE	BSOTMATN
7:39:00	BST62	P1		
7:39:00	BST62	R1	OPTTAUDT	BSAUMATN
7:39:00	BST62	R2	INETOSA	BSTTINET
7:39:00	BSI62	R3	INETOSA6	BSTT6NET
7:39:00	BST62	R4	VNET66	BSTTVNET
7:39:00	BSI62	S1	FTPS00T	BSTTFTPS
7:39:00	BSI62	S2	FTPS66	BSTTFTPS
7:39:00	BSI62	21	STARTMAS	IESMASNM
7:39:00	BSI62	22	FTPC62HR	BSTTFTPC
7:39:00	zvse62c		Totals	
7:39:00	zvse62c	BG	LLST	DTRIATTN
7:39:00	zvse62c	FB	SECSERV	BSTPSTS
7:39:00	zvse62c	F1	POWSTART	IPWPOWER
7:39:00	zvse62c	F2	CICSICCF	DFHSIP
7:39:00	zvse62c	F3	VTAMSTRT	ISTINCVT
7:39:00	zvse62c	F4	SCANVSM3	ARXREXX
7:39:00	zvse62c	F5	LIBRDIR	LIBR
7:39:00	zvse62c	F8	VPSSNMPP	LISTLOG
7:39:00	zvse62c	01	CICSJA69	DFHSIP
7:39:00	zvse62c	Rl	STARTVCS	IESVCSRV
7:39:00	zvse62c	R2	STRTMAST	IESMASNM
7:39:00	zvse62c	R3	STRTMAST	IESMASNM
7:39:00	zvse62c	S1	STGPLAY	STGPLAY

/stem Po	Tab Pa	rameters	×			ESAVSES - VSE System Configuration - DEMO	[₩₩]/22 ₩□€
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4 13.6 8 0.5	Start date	2020/02/10		1:39:00 2VSe61C 2VSE61 1:39:00 zvse62b 2VSE62 1:39:00 zvse62c 2VSE62 1:39:00 BSI62 VSE62	C I VSIVMS B I VSIVM5 C I VSIVM5 I JCB	5 IBM 2828-A02 02 (714C702) 80 18 12 6 1 1 0 0 0)=P5(100)=P4(100),BG(xK,0,F2,Z,T,FB,F),F 5 IBM 2828-A02 02 (714C702) 80 20 12 8 1 1 0 0 (100)=FA(100),BG(xK,0,F2,Z,R,Z,T,FB,F),F 5 IBM 2828-A02 02 (714C702) 80 17 12 5 1 1 0 0 0)=PA(100)=FG(100),F8,0,072,R,Z,T,F3,FB,F 1 IBM 1090-306 02 (224502) 120 19 12 7 1 1 0 0 100)=F5(100)=F2(100),F2,7,R,Z,F4,5,00,F7,FB,B6,F	
	Start time	07:41					
SAVSE	End date	2020/02/10		[]	₽ □⊗ ⊻	VSE CPU Utilization by Node - DEMO	
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TCP/IP Monitoring

Barnard Software's IPv6/VSE monitoring

- Additional SNMP plugin written for each TCP/IP stack vendor
- Data maps directly in to fields currently used for Linux network monitoring

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07:09:00	zvse61b	22.88	0	22.88	0	0	0	0	35.84	0	0			0	0 0		ő		0			
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Time 77:09:00 07:09:00	Node/ Group zvse62b zvse61b	E <-Tot <-Msg In 0 0 0	SATC al> <ec s-> <rq ut In 0 0 0 0 0 ESA Total O -Per se Input</rq </ec 	P3 - ho Me sts>< Out 0 0 0	TCP ssages In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CPIF	ontro Stamp ts> <re Out In 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</re 	Msgs> plys> Out 0 0 0 0 0 0 0 0 0 0 0	<addrsm <reques In ou 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</reques </addrsm 	e Pro Mask Rest> <rep it In 0 0 0 0 0 0 0 0 0</rep 	otocc ogsts> lys-> Out 0 0 0 0 0 0 0 0 0 0 0 0 0	<pre><sourc <quenc In Out 0 0 faces ts Disc <nonerr Inpt Out</nonerr </quenc </sourc </pre>	bort - bb> Redit t In 0 0 0 0 0 c - DEl arded tor> Unk typt Pro	Out D 0 0 0 0 0 0 0 0 0 0 0 0 0	-Input ad Bac ata Des 0 0	Error i Bad it Parr 0 0	Msgs> Time n Xcdd 0 0 0 0 0 0	<pre><out; Bad Data 0 0 0</out; </pre>	put E: Bad Dest 0 0 0	Parm	Msgs> Time A Xcdd 	(
Time 07:09:00 07:09:00	Node/ Group zvse62b zvse61b Node/ Group zvse62c	C-Tot C-Msg In O 0 0 C C IFT 	SATC al> <ec s-> <rq ut In 0 0 0 0 0 ESA Fotal 0 -Per se Input</rq </ec 	P3	TCP ssages In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CPII	ontro Stamp ts> <re Out In 0 0 0 0 0 0 0 0 0 0 0 0 0</re 	Msgs> plys> Out 0 0 0 0 0 0 0 0 0	<pre>ssag <addrsm 0="" 0t="" <="" <reques="" in="" pre=""></addrsm></pre>	e Pro Mask Rest> <rep at In 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</rep 	otoco agsts> olys-> Out 0 0 0	<pre></pre>	bort - h> Redi tt In 0 0 0 0 0 - DEl arded	DEMO rects B Out D 0 0 0 0	-Input ad Bac ata Des 0 0 0	Error Bad t Par 0 0	Msgs> Time n Xcdd 0 0 0 0 0 0	<pre><out; Bad Data 0 0 0 0</out; </pre>	put E: Bad Dest 0 0 0	Bad Parm	Msgs> Time A Xcdd 0 0 0	0
Time 07:09:00 07:09:00 07:09:00 07:09:00	Node/ Group zvse62b zvse61b Node/ Group zvse62c zvse62c	E <-Tot <-Msg In 0 0 0 0	SATC al> <ecs s-> <rq ut In 0 0 0 0 0 ESA Fotal 0 -Per se Input </rq </ecs 	P3 - ho Me sts>< Out 0 0 0 XTCF ctets cond= 0 0 utpu	o August Aug	CPIF	ontro Stamp ts> <re Out In 0 0 0 0 0 0 0 0 0 0 0 0 0</re 	Msgs> plys> 0ut 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<pre>Ssag <addrsm 0="" 0x="" <="" <reques="" in="" pre=""></addrsm></pre>	e Pro Mask Rest> <rep at In 0 0 0 0 0 ver / <</rep 	otoco agsts> olys-> Out 0 0 0 0 0 0 0 0 0 0 0 0 0	<pre> Source Sou</pre>	oort - h> Redi tt In 0 0 0 0 0 c - DEl arded or> Unk ttpt Pro- 0	OEMO rects B Out D 0 0 0 0 0 0 0 0 0 0 0 0 0	-Input ad Bac ata Des 0 0 0	Error Bad t Par- 0 0 0	Msgs> Time n Xcdd 0 0 0 0 0 0	<out Bad Data </out 	Dest Bad Dest 0 0 0	Bad Parm	A Xcdd	0
Fime 07:09:00 07:09:00 Fime 07:09:00 07:09:00 07:09:00 07:09:00 07:09:00	Node/ Group zvse62b zvse61b Node/ group zvse62c zvse62c zvse62b zvse62b	E <-Tot <-Msg In 0 0 0	SATC al> <ec s-> <rq ut In 0 0 0 0 ESA Fotal 0 -Per se Input - 4566</rq </ec 	P3 - ho Meists><] Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	o contraction of the second se	IP C Time <rqs In CPII C-DII C-</rqs 	ontro Stamp ts> <re Out In 0 0 0 0 0 0 0 0 0 0 0 0 0</re 	ol Me Msgs> Out Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<pre>ssag <reques In Ou 0 0 e Lay Sec-> icast> Output 0 0</reques </pre>	e Pro Mask Res atl In 0 0 0 0 0 0 ver / 1 <	out out out o o o o o o o o o o o o o o	<pre>>Source <quence .="" 0="" 0<="" <nonerr="" disc="" ffaces="" in="" inpt="" ou="" quence="" td="" ts=""><td>boort - he> he> Redi t In 0 0 0 0 0 c - DEl harded tors Unk tpt Pro</td><td>DEMC rects B Out D 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>-Input ad Bac ata Des 0 0</td><td>Error l Bad t Par 0 0</td><td>Msgs> Time n Xcdd 0 0 0 0 0 0</td><td><out: Bad Data 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</out: </td><td>Uput E Bad Dest 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>Parm C</td><td>Msgs> Time A Xcdd</td><td>0</td></quence></pre>	boort - he> he> Redi t In 0 0 0 0 0 c - DEl harded tors Unk tpt Pro	DEMC rects B Out D 0 0 0 0 0 0 0 0 0 0 0 0 0	-Input ad Bac ata Des 0 0	Error l Bad t Par 0 0	Msgs> Time n Xcdd 0 0 0 0 0 0	<out: Bad Data 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</out: 	Uput E Bad Dest 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Parm C	Msgs> Time A Xcdd	0
Time 07:09:00 07:09:00 07:09:00 07:09:00 07:09:00 07:09:00 07:09:00	Node/ Group zvse62b zvse61b Node/ Group zvse62c zvse62c zvse61c zvse61c	E <-Tot <-Msg In 0 0 0 0	SATC al> <ec s-> <rg ut In 0 0 0 0 0 ESA Fotal 0 -Per se Input 4566 2046</rg </ec 	P3 - ho Me: sts>< 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Article Art of the second seco	IP C <times < Rqss t In 0 0 0 0 CPHR <-Subn C-Unic Input 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</times 	ontro Stamp ts> <re Out In 0 0 0 P Har et pac ast-> Outpt 83.18 36.05</re 	ol Me Msgs> Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<pre>SSag <addrsm <reques In 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</reques </addrsm </pre>	e Pro Mask Rest at In 0 0 0 0 0 0 0 ver/ <in ez<br="">Inpt C</in>	agsts> out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	source <quence In Or 0 0 0 faces ts Disc NonErr Inpt Or 0 0 0 0 0 0 0 0 0 0 0 0 0</quence 	re> th> Redit In 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DEMC rects B Out D 0 0 0 0 0 0 0 0 0 0 0 0 0	-Input ad Bac ata Des 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Error I Bad t Par 0 0	Msgs> Time n Xcdd 0 0 0 0 Pa	<out; Bad Data 0 0 0 0 8 Avera In </out; 	put E Bad Dest 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	rror Bad Parn ()	Msgs> Time Xcdd 0 0	0



TCP/IP Monitoring

IPv6/VSE monitoring

 Node activity real time graph



TCP/IP Monitoring

Connectivity Systems -TCP/IP for z/VSE monitoring

- SNMP plugin written to interface with See Server
- Screens/reports created to display the data



Main menu 🗙	Friday 12 Jun 2020 07:42 zVIEW Version 5112	
Add tab	zVIEW - Velocity Software - VSIVM4 (VM4)	
Load View	VELOCITY Performance Displays for z/VM, Linux, z/OS and z/VSE	
Load view Save view	SOFTWARE	
Color contig	Menu	
VSIVM4	ZOSCIX1 - VM4 🔮 🚍 🥖 🛽 🗙	
ZMON Graphs ZMAP	ZOSCIX1 - CICS Analysis - VM4	🇊 💷 🥒 😜 😫 😢
Capacity	Time SYSID <cics program-=""> <start> Platform <location> <transactions-> <task statistics=""></task></transactions-></location></start></cics>	100 0 100
System	APPLID JobName Date Time O/S VRM LPARName VMID Total Resp CPU Total MXT Actv PctM MXTQ	
Service Level Analysis	07:42:00 VSI1 CICSZA1 CICSJZ1 05/26/20 14:07:18 z/OS 0720 ZOSLP1 815 0.022 0.007 816 50 1 2.0 0	
User	07:42:00 VSII CICSZA2 CICSJZ2 05/26/20 14:08:46 2/05 0720 ZOSLPI 863 0.022 0.008 855 50 0 0 0 07:42:00 V61C CICSJA68 CICSJA68 05/21/20 08:08:28 VSE 0420 VSIVM5 ZVSE61C 287 0.032 0.015 369 40 2 5.0 0	
Shared File System	07:42:00 V62B CICSJA95 CICSJA95 05/21/20 08:10:06 VSE 0430 VSIVM5 ZVSE62B 392 0.004 0.001 418 15 2 13.3 0	
CPU		
Main Storage		
Paging and Spooling		
Input/Output Subsystem	ZOSCIX2 - CICS Transaction Analysis - VM4	TIN / 🛛 🕹 🖸 🗙
Network	<-Response Time-> <dispatch> <dispatch delays=""> CPU</dispatch></dispatch>	-100 0100
Linux	<transactions> Total Susp Disp CPU PC zIIP Total First I/O Uncapt Disp Time SYSID APPLID Group Count Resp Time Time Time Load CPU CPU Disp Other Wait Wait Ratio</transactions>	
Linux Application		
SSC/Docker	07:50:00 VSI1 CICSZA1 Totals 824 0.024 0.010 0.028 0.007 0 0 5.94 0.005 0.003 0.001 0.001 51.893	
zOS	07:50:00 VSI1 CICSZA2 Totals 832 0.023 0.010 0.026 0.007 0 0 6.16 0.007 0.000 0.003 0.000 56.345	
zVSE	07:50:00 VSI1 CICSZA2 Inflight 0 0 0 07:50:00 V61C CICSJA68 Totals 328 0.035 0.004 0.031 0.017 0 . 5.62 0.004 0 0 0 111.762	
cics	07:50:00 V61C CICSJA68 Inflight 0 0 0	
zoscix1	07:50:00 V62B CICSJA95 Inflight 0 0 0	
• ZOSCIX4		
Screen Index		
Emulation Screens		
zALERT Definitions		
ZOPERATOR		
ZTUNE		
4	CICS Menu	
	T W A R E	20

				zos	CIX4	- CIC	CS D	etaile	d Tra	ansa	actio	n A	na	lysi	s -	VM	4						1	1	•	2	
					<-Resp	ponse !	Time->	<di< th=""><th>spatch</th><th>1></th><th><s< th=""><th>uspe</th><th>nd 1</th><th>lime :</th><th>per</th><th>Tran</th><th>(ms</th><th>)></th><th><</th><th>Sus</th><th>spend</th><th>d Tim</th><th>e per</th><th>Tra</th><th>n (1</th><th>ns)</th><th>></th></s<></th></di<>	spatch	1>	<s< th=""><th>uspe</th><th>nd 1</th><th>lime :</th><th>per</th><th>Tran</th><th>(ms</th><th>)></th><th><</th><th>Sus</th><th>spend</th><th>d Tim</th><th>e per</th><th>Tra</th><th>n (1</th><th>ns)</th><th>></th></s<>	uspe	nd 1	lime :	per	Tran	(ms)>	<	Sus	spend	d Tim	e per	Tra	n (1	ns)	>
			Tran		Total	Susp	Disp	CPU	PC	ZIIP	Disp	MXT	TC	_	_				_	Shr		CF	Socke	ts <	-LU-	->	
Time	SYSID	APPLID	ID	Count	Resp	Time	Time	Time	Load	CPU	Wait	DIY	DIY	Trm	Jrn	TS	File	MRO	TD	TS I	RLS I	Dtbl	In C	ut -	61	62 F	EPI
07:52:00	VSI1	CICSZA1	CSSY	2	0.010	0.010	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA1	STRH	21	0.010	0.004	0.011	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA1	STR1	20	0.025	0.020	0.010	0.003	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA1	STR2	24	0.013	0.009	0.009	0.003	0	0	3.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA1	STR3	28	0.019	0.011	0.016	0.006	0	0	8.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSII	CICSZAI	STR4	24	0.017	0.006	0.022	0.007	0	0	3.65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSII	CICSZAI	STR5	27	0.045	0.014	0.062	0.013	0	0	0 70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSTI	CICSZAI	STR7	20	0.030	0.010	0.042	0.012	0	0	10	0	0	0	0	0	0	0	0	0	õ	0	0	0	0	0	ő
07:52:00	VSII	CICSZA1	STR8	25	0.037	0.008	0.059	0.016	ő	ő	6.05	ő	ő	ő	ő	ő	ő	ő	ő	ő	ŏ	ő	ő	ŏ	õ	õ	ő
07:52:00	VSI1	CICSZA1	STR9	26	0.044	0.013	0.062	0.018	0	0	8.28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA1	ZIPC	191	0.007	0.004	0.006	0.001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA1	ZIPR	191	0.038	0.006	0.062	0.017	0	0	1.33	0	0	2.0	0	0	0.1	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA1	ZIPU	187	0.011	0.008	0.007	0.001	0	0	2.39	0	0	0.0	0	0	2.5	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA2	CSSY	1	0.269	0.268	0.003	0.000	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSII	CICSZA2	STRH	29	0.012	0.006	0.011	0.003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSII	CICSZA2	STR1	27	0.014	0.010	0.008	0.003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSII	CICSZAZ	STR2	30	0.016	0.010	0.012	0.005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSTI	CICSZA2	STR3	22	0.016	0.005	0.020	0.005	0	0	0	0	0	0	0	0	0	0	0	0	ő	0	0	0	0	0	0
07:52:00	VSII	CICSZA2	STR5	34	0.028	0.006	0.044	0.012	ő	0	ő	õ	õ	ő	õ	ő	ő	ő	õ	õ	õ	õ	ŏ	õ	õ	õ	õ
07:52:00	VSI1	CICSZA2	STR6	23	0.031	0.016	0.029	0.011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA2	STR7	26	0.030	0.007	0.048	0.016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA2	STR8	30	0.038	0.012	0.051	0.017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA2	STR9	25	0.055	0.021	0.068	0.023	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA2	ZIPC	188	0.013	0.010	0.005	0.001	0	0	1.86	0	0	0	0	0	2.6	0	0	0	0	0	0	0	0	0	0
07:52:00	VSII	CICSZA2	ZIPR	193	0.050	0.021	0.060	0.017	0	0	7.10	0	0	4.5	0	0	4.2	0	0	0	0	0	0	0	0	0	0
07:52:00	VSII	CICSZAZ	CTPU	187	0.013	0.011	0.005	0.001	0	0	3.96	0	0	0.0	0	0	5.2	0	0	0	0	0	0	0	0	0	0
07:52:00	V61C	CICSJA68	STR1	35	0.013	0.002	0.011	0.004	0		0	0	0	0	0	0	0	0	0	0	ő	0	0	0	0	0	0
07:52:00	V61C	CICSJA68	STR2	33	0.012	0.001	0.011	0.008	ő	:	ő	õ	õ	õ	õ	õ	0	õ	õ	õ	õ	õ	õ	õ	õ	õ	õ
07:52:00	V61C	CICSJA68	STR3	31	0.023	0.008	0.016	0.011	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V61C	CICSJA68	STR4	35	0.022	0.003	0.019	0.012	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V61C	CICSJA68	STR5	30	0.040	0.006	0.034	0.022	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V61C	CICSJA68	STR6	33	0.040	0.006	0.034	0.021	0	•	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V61C	CICSJA68	STR7	34	0.048	0.002	0.046	0.030	0	•	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V61C	CICSJA68	STR8	27	0.041	0.001	0.041	0.023	0	•	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V61C	CICSJA68	STR9	33	0.082	0.009	0.073	0.040	0	•	0 02	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V62B	CICSJA95	STR1	37	0.002	0.000	0.003	0.001	0		0.03	ő	0	0.0	0	0	0	0	0	0	õ	ő	0	ő	0	0	ő
07:52:00	V62B	CICSJA95	STR2	37	0.002	0.000	0.002	0.001	ő		0.01	0	ō	0.0	ō	0	ő	0	0	0	0	õ	ő	0	0	0	0
07:52:00	V62B	CICSJA95	STR3	37	0.002	0.000	0.002	0.001	0		0.01	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V62B	CICSJA95	STR4	38	0.002	0.000	0.002	0.001	0		0.01	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V62B	CICSJA95	STR5	36	0.002	0.000	0.002	0.001	0		0.02	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V62B	CICSJA95	STR6	34	0.002	0.000	0.002	0.001	0		0.02	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V62B	CICSJA95	STR7	41	0.003	0.000	0.002	0.001	0	•	0.01	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V62B	CICSJA95	STR8	31	0.003	0.001	0.002	0.001	0	•	0.02	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VOZB	CICSUR95	STRY	34	0.003	0.001	0.002	0.001	U	•	0.02	U	U	0.0	U	U	0	U	U	0	0	0	0	v	v	U	v

Some of the CICS graphs

Click on a bar to see data over time



31

CICS response time over time

E



Additional CICS Views are available – Use ours or make your own



Operational Alerts

zALERT is a component that comes with zVPS

It provides the ability to look at one minute data based on customer supplied rules

zALERT can also generate notifications when any data elements exceed certain thresholds

F4 0004 // JOB LIBRDIRC DATE 06/13/2020, CLOCK 15/49/44 F4 0004 EOJ LIBRDIRC MAX.RETURN CODE=0008 DATE 06/13/2020, CLOCK 15/49/44, DURATION 00/00/00 F4 0001 1Q34I F4 WAITING FOR WORK

15:50:10 ZALERT VSER Job LIBRDIRC on zvse61b ended at 15:49:44 with rc=0008



Operational Messages

zOPERATOR is a component that comes

Actions can be taken on messages

with zVPS

		ZOPE	R - zOPERATOR Console - VM5	THU 🖉 🕘 🖵 😒
	12:00:06 ZVSE61C	Y2 0052	// JOB SCANVSM2	
	12:00:09 ZVSE62C	BG 0000	EOJ LIBRDIR MAX.RETURN CODE=0000	
	12:00:10 ZVSE61C	F5 0005	EOJ LIBRDIR MAX.RETURN CODE=0000	
	12:00:12 ZVSE61C	¥1 0051	// JOB SCANVSM1	
	12:00:13 ZVSE62C	¥1 0051	// JOB SCANVSM1	
JE .	12:00:20 ZVSE62C	¥1 0051	EOJ SCANVSM1 MAX.RETURN CODE=0000	
	12:00:24 ZVSE61C	Y1 0051	EOJ SCANVSM1 MAX.RETURN CODE=0000	
	12:01:21 ZVSE62C	¥2 0052	EOJ SCANVSM2 MAX.RETURN CODE=0000	
	12:01:38 ZVSE62C	¥3 0053	EOJ SCANVSM3 MAX.RETURN CODE=0000	
	12:01:53 ZVSE61C	¥2 0052	EOJ SCANVSM2 MAX.RETURN CODE=0000	
	12:02:00 VSEN63B	Y1 0001	1Q471 Y1 LIBRDIR2 01011 FROM LOCAL , TIME=12:02:00	, TKN=0000000
	12:02:00 VSEN63B	¥1 0052	// JOB LIBRDIR2	
	12:02:00 VSEN63B		DATE 05/31/2022, CLOCK 12/02/00	
	12:02:00 VSEN63B	¥1 0052	1S47I PRELEASE RDR,LIBRDIR3	
	12:02:00 VSEN63B	¥1 0052	EOJ LIBRDIR2 MAX.RETURN CODE=0000	
	12:02:00 VSEN63B		DATE 05/31/2022, CLOCK 12/02/00, DURATION 00/00/00	
	12:02:00 VSEN63B	Y2 0001	1Q47I Y2 LIBRDIR3 01012 FROM LOCAL , TIME=12:02:00	, TKN=0000001
	12:02:00 VSEN63B	¥2 0053	// JOB LIBRDIR3	
	12:02:00 VSEN63B		DATE 05/31/2022, CLOCK 12/02/00	
	12:02:00 VSEN63B	¥2 0053	1S47I PRELEASE RDR,LIBRDIR4	
	12:02:00 VSEN63B	¥2 0053	EOJ LIBRDIR3 MAX.RETURN CODE=0000	
	12:02:00 VSEN63B		DATE 05/31/2022, CLOCK 12/02/00, DURATION 00/00/00	
	12:02:01 VSEN63B	Y1 0001	1Q47I Y1 LIBRDIR4 01013 FROM LOCAL , TIME=12:02:01	, TKN=000000D2
	12:02:01 VSEN63B	Y1 0052	// JOB LIBRDIR4	
	12:02:01 VSEN63B		DATE 05/31/2022, CLOCK 12/02/01	
	12:02:01 VSEN63B	¥1 0052	EOJ LIBRDIR4 MAX.RETURN CODE=0000	
	12:02:01 VSEN63B		DATE 05/31/2022, CLOCK 12/02/01, DURATION 00/00/00	
	12:02:01 VSEN63B	Y1 0001	1Q3EI DYNAMIC CLASS 'Y' WAITING FOR WORK	
	12:02:02 ZVSE61C	¥3 0053	EOJ SCANVSM3 MAX.RETURN CODE=0000	
	12:02:40 VSEN63C	F1 0001	1Q341 RDR WAITING FOR WORK ON 00C	
	12:02:40 VSEN63C	Y1 0001	1Q47I Y1 STGPLAY 17992 FROM LOCAL , TIME=12:02:40 ,	TKN=000000D1
	12:02:40 VSEN63C	YI 0051	// JOB STGPLAY	
	12:02:40 VSEN63C		DATE 05/31/2022, CLOCK 12/02/40	
	12:02:40 VSEN63C	YI 0051	* PASS 1	
	12:02:40 VSEN63C	¥1 0051	// EXEC STGPLAY	
	12:02:40 VSEN63C	¥1 0051	10531 PROGRAM NOT FOUND.	
	12:02:40 VSEN63C	v1 0051	11701 JOB STGPLAY CANCELLED DUE TO CONTROL STATEMEN	TERKUK
	12:02:40 VSEN03C	V1 0051	ID/OI JOD TERMINATED DUE TO PROGRAM ABEND	
10/	12:02:40 VSEN03C	11 0051		
vv	12:02:40 VSEN63C	V1 0001	103ET DYNAMIC CLASS 'Y' WAITING FOR WORK	
		TT 0001	TOTAL STRUCT STUDY I WATTING FOR WORK	

Real Time vs Long Term

All of the real time data is displayed in one minute intervals

At the end of the day the one minute data is summarized into 15 minute intervals

This provides a long term database and is the source for capacity planning

In addition, reports are generated in the 15 minute format

These reports cover z/VM, Linux, and of course, z/VSE



Reports

Main menu	×	Dai	ly VSI	E Sys	stem	Perf	ormai	nce R	eport	: - VM	14 - Fr	ri 12 Ju	ın 202	20 🚺	••₽0€
Add tab	Arrange	Report	ESAVS	EC	VSE	Syste	em Perf	ormance	e Repor	t		Ve	locity	Software	e Corporat
Load View	Save View	Monito	or initi	alized	1: 06/:	12/20	at 00:	00:00 c	on 8562	seria	1 040F	78 Fi	rst rec	ord anal	yzed: 06/
Color config		NODE /Time	Pag In	es/Sec Out	c <rate SVC</rate 	e/Sec> DSP	> <cpu Total</cpu 	Utiliza Mstr	ation> Spin	<-Job TOTal	CPU-> Ovhd	All Bound	Pct NP	Seconds OfData	•
VSIVM4	 	06/12/ 00:15:	20 00												
ZMON Graphs Capacity	ZMAP	zvse61	.b	0 0	2140	1923	10.2	3.1	0	9.1	1.1	85.0	30.5	899.3	15.0
Daily Reports		zvse61	c	0 0	4508	2215	10.5	6.2	0	9.0	1.4	75.1	59.7	899.9	15.0
Fri 12 Jun 2020		zvse62	b!b	0 0	3347	1293	4.6	2.2	0	3.9	0.7	92.1	48.0	899.9	15.0
ESAHDR		zvse62	c	0 0	3652	1512	5.5	2.7	0	4.7	0.8	81.1	48.1	900.0	15.0
ESATUNE		00:30:	00												
Performance Summa	iry	zvse61	.b	0 0	6934	3349	18.8	8.5	0	17.9	2.3	78.8	45.0	900.0	15.0
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VSE Reporting		NODE < /Time V	z/VM- /irtID	> <i Lvl N</i 	ogical ame	Part> Nbr 	< <ibm <m<="" td=""><td>CPU m odel>/C</td><td>odel Ps/ ser</td><td>> ·</td><td><part Max Cur</part </td><td>itions> Stat Dyr</td><td><c Tot Ac</c </td><td>PU Counts tv Quies</td><td>> Inact </td></ibm>	CPU m odel>/C	odel Ps/ ser	> ·	<part Max Cur</part 	itions> Stat Dyr	<c Tot Ac</c 	PU Counts tv Quies	> Inact
ESAVSEC		06/12/20 00:15:00													
ESAVSES ESAVSEP		zvse61b Z zvse61c Z	VSE61B VSE61C VSE62P	1 VS 1 VS	IVM5	5 5	IBM 856 IBM 856	2-A02 0 2-A02 0	2 (40F7 2 (40F7 2 (40F7	82) 82) 82)	80 20 80 18 80 19	12 8 12 6	1 1 1	1 0 1 0	0
ESAVSEJ		zvse62c Z	VSE62C	1 VS	IVM5	5	IBM 856	2-A02 0 2-A02 0	2 (40F7 2 (40F7	8 2)	80 18	12 6	1	1 0	0
		00:30:00 zvse61b Z	VSE61B	1 VS	IVM5	5	IBM 856	2-A02 0	2 (40F7	82)	80 20	12 8	1	1 0	0
	:	zvse61c Z zvse62b Z	VSE61C VSE62B	1 VS 1 VS	IVM5 IVM5	5	IBM 856 IBM 856	2-A02 0 2-A02 0	2 (40F7 2 (40F7	8 2) 8 2)	80 18 80 19	12 6 12 7	1	1 0 1 0	0
		zvse62c Z	VSE62C	1 VS		5	IBM 856	2-A02 0	2 (40F7	82)	80 18	12 6	1	1 0	0
	T W/ A	00.10.00													

Summary

Velocity Software is the recognized leader for performance and cloud management tools for the z/VM, z/VSE, and Linux on Z platforms

• We recently added the collection of some z/OS records to our portfolio

Performance monitoring should not be the performance problem

We listen to customers and strive to provide the information and add the functions that they (or you) need to our products

Questions and requests: info@velocitysoftware.com



Thank you!

Questions?

http://www.velocitysoftware.com

