ELOCITY S O F T W A R E

Monitoring z/VSE with zVPS

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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 about 10 years ago

- With z/VSE 4.3
- Since we use SNMP for Linux, it was a natural progression

Velocity Software

- Introduced z/VSE monitoring in 2010
- Based on SNMP 'plugins' provided by IBM
- Added our partition plugin in 2014
 - Displays partition and job information as jobs are running



Fast Forward to 2020.....

- Renewed interest in z/VSE monitoring
- Our recent dive into z/OS monitoring
 - Provides and verifies infrastructure that also benefits z/VSE

Introducing 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 😲 🚍 🖉 🛯 🗴																			
$\mathbf{\sim}$	ESAVSEP - VSE Partition Performance - VM4															ĨŧO)/?? 🚽 🕑 😢				
Time	Node	Part Id	Job Name	Phase Name	<- CPU CPU	J% _> Ovhd	< Disk	VDisk	> Other	Rtrn Code	Cncl Code	< Date	Sta:	rt> 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/	20	07:55:58			1	. 0	0	
09:59:00	zvse61b	FB	SECSERV	BSTPSTS	0.0	0.0	18.0	0	0			05/21/	20	07:55:57			2	2 0	0	
09:59:00	zvse61b	F3	VTAMSTRT	ISTINCVT	0.1	0.0	0	0	36.0			05/21/	20	07:56:01		SYSA	3	6 0	49844	
09:59:00	zvse61b	т1	BSTTVNET	BSTTVNET	0.1	0.0	2.0	0	19.0			06/04/	20	08:02:07			4	. 0	53418	
09:59:00	zvse61b	т2	BSTTFTPD	BSTTFTPS	0	0	0	0	0			06/04/	20	08:02:06			4	. 0	53419	
09:59:00	zvse61b	Z1	DMFSTART	DFHDFSIP	0.5	0.1	0	0	4.0			06/04/	20	08:02:55			5	6 0	53422	
09:59:00	zvse61b	R1	STARTVCS	IESVCSRV	0.1	0.0	0	0	0			06/04/	20	08:01:51			6	i 0	53420	
09:59:00	zvse61b	R2	STARTMAS	IESMASNM	0.2	0.0	0	0	0			06/04/	20	08:01:55			6	i 0	53421	
09:59:00	zvse61b	F2	CICSICCF	DFHSIP	0.3	0.0	0	0	0			05/21/	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/	20	20:14:34			8	0	51255	
09:59:00	zvse61b	02	CICSJB60	DFHSIP	0.2	0.0	0	0	0			05/26/	20	20:14:44			8	0	51256	
09:59:00	zvse61b	F5	LIBRDIR	LIBR	1.8	0.4	2890	0	20291	0	10	06/04/	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/	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/	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/	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, preserving precious GP CPU time
- Customers have the option to bypass the writing of the DMF data

									ES	SAVS	SEP	- VSE I	Partitior	n Perfo	ormance -	· VM2			
	_	Part	Job	Phase	<- CI	PU% ->	<	- 1/0	>	Rtrn	Cncl	< Sta	art>	Stop	_				
Time	Node	Id	Name	Name	CPI	J Ovhd	Disk	VDisk	Other	Code	Code	Date	Time	Time	User Info		Prty	Share	
07:10:00	zvse61b		DMFSTART	DEHDESTP	0.1	2 0.0	0	0	1.0			01/20/20	07:27:55					0	
07:10:00	zvse62b	z1	DMFSTART	DFHDFSIP	0.3	2 0.0	Ő	0	1.0			01/29/20	04:21:55				6	ő	
07:10:00	zvse62c	Z 1	DMFSTART	DFHDFSIP	0.2	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
- IPv6/VSE currently available
 - Data maps directly to fields already available in zVPS
- TCP/IP for VSE research ongoing
 - We have issued a statement of direction to provide support

ESATC	P4 - TC	PIP	Hardwa	are Lag	yer	/ Inte	rfaces	s - DE	MO	I) 🥖 😢) 🕹 🕻	
			<total (<="" th=""><th>Octets></th><th>Avg</th><th><-Subr</th><th>net pao</th><th>ckets /</th><th>/ Sec-></th><th><</th><th>Packe</th><th>ets Di</th><th>iscar</th></total>	Octets>	Avg	<-Subr	net pao	ckets /	/ Sec->	<	Packe	ets Di	iscar
	Node/		<-Per se	econd->	Q	<-Unio	cast->	<nonur< td=""><td>nicast></td><td><in 1<="" td=""><td>Error></td><td><non!< td=""><td>Error</td></non!<></td></in></td></nonur<>	nicast>	<in 1<="" td=""><td>Error></td><td><non!< td=""><td>Error</td></non!<></td></in>	Error>	<non!< td=""><td>Error</td></non!<>	Error
Time	Group	IFT	Input	Output	Len	Input	Outpt	Input	Output	Inpt	Outpt	Inpt	Outp
07:32:00	zvse62c					•	•	•			•	•	
07:32:00	zvse62b	1	13551	59020	0	166	230	0	0	0	0	0	
07:32:00	zvse61c					•							
07:32:00	zvse61b	2	14972	78191	0	188	279	0	0	0	0	0	
07:32:00	zvse61b	1	0	0	0	0	0	0	0	0	0	0	

z/VSE 5.1+ for VSE system and partition data z/VSE 6.1+ for CICS and TCP/IP data

- z/VSE 6.2 is the only release currently supported by IBM
- 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 (Refer to VSEMON readme for updated requirements)
 - z/VSE 6.1: 2.1A with fixes 164, 386, and 391
 - z/VSE 6.2: 2.25 with fixes 164, 187, and 188
 - 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.)
- A BJB file is put there
 - Transfer to z/VSE
 - Respond to the SETPARM prompt
- Samples added to VMSYSVPS:VSEMON.
 - STARTMAS JCL, IESMASCF.Z, VSIDMF config



A number of items are cataloged and linked

- Plugin phases (partition and TCP/IP)
- CICS PLTPI phase
 - Reset the monitor
 - Make sure statistics are turned on
- VSIDMF exit phase
 - Sample VSIDMF configuration member
- REXX program
 - Used to delay the DMF startup



Plugin Implementation



VSEMON Installation

Plugin Startup

// EXEC IESMASNM,PARM='DD:PRD2.CONFIG(IESMASCF.Z)'
1S54I PHASE IESMASNM IS TO BE FETCHED FROM PRD1.BASE
IESMA101I BEGINNING STARTUP OF MONITORING AGENT
IESMASNM Loading config member: DD:PRD2.CONFIG(IESMASCF.Z)
IESMM004I LOADING PLUGIN IESMPCPU...
IESMM004I LOADING PLUGIN VPSSNMPP...
VPSSNMPP Version 10100
IESMM004I LOADING PLUGIN VPSBSTCP...
Plugin startup
VPSBNTCP Version 10100
IESMA102I FINISHED STARTUP OF MONITORING AGENT
IESMA103I WAITING FOR CONNECTIONS OF CLIENTS...



CICS configuration

DFHSIT updates

DFHS	IT TYPE=CSECT,		*
	MN=ON,	MONITORING ON	*
	MNCONV=YES,	MONITORING OF CONVERSATIONA	Т *
	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	*

DFHPLTPI update

DFHPLT TYPE=ENTRY, PROGRAM=VPSMONSW



CICS configuration

- Make sure statistics is turned on
- Interval set to one minute

cemt i stat STATUS: RESULTS - OVERTYPE TO MODIFY Sta On Int(000100) End(000000)

Define PLTPI program and associated transaction

CEDA View	TRA	NSaction (VSI1)
TRANSaction	:	VSI1		
Group	:	VSI1		
Description	:			
PROGram	:	VPSMONSW		

```
CEDA View PROGram(VPSMONSW)
PROGram : VPSMONSW
Group : VSI
Description :
Language : C
```



VSEMON Installation

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



VSEMON Installation

DMF Updates

DMF configuration phase changes

DFHDMFM TABLE,		*
CATALOG=VELOCITY.US	ER.CATALOG, USE VSICAT	*
FILELIST=(VSE.SYSTE	M.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 Menu



Mai	n menu	×
Add tab		Arrange
Load View		Save View
C	Color config	
VSIVM2		\$
ZMON	Graphs	zMAP
Capacity		
System		
Service Lev	el Analysi	;
User		
Shared File	System	
CPU		
Main Storag	ge	
Paging and	Spooling	
Input/Outpu	ut Subsyste	m
Network		
Linux		
Linux Appli	cation	
SSC/Docke	r	
zOS		
zVSE		
ESAVSES ESAVSEC		
ESAVGEC	2	
ESAVSEP		
CICS		
Screen Inde	ex.	
Emulation	Screens	
ZALERT De	finitions	
ZOPERATO	R	
zTUNE		
Custom Sa	mples	

Navigation

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ESAVSES - VSE System Configuration - DEMO

		<z th="" vm<=""><th>> <logical#< th=""><th>art> <</th><th><cpu< th=""><th>mode]</th><th>1></th><th><1</th><th>?arti</th><th>tions-</th><th>></th><th><</th><th>-CPU</th><th>Count</th><th>3></th><th>></th></cpu<></th></logical#<></th></z>	> <logical#< th=""><th>art> <</th><th><cpu< th=""><th>mode]</th><th>1></th><th><1</th><th>?arti</th><th>tions-</th><th>></th><th><</th><th>-CPU</th><th>Count</th><th>3></th><th>></th></cpu<></th></logical#<>	art> <	<cpu< th=""><th>mode]</th><th>1></th><th><1</th><th>?arti</th><th>tions-</th><th>></th><th><</th><th>-CPU</th><th>Count</th><th>3></th><th>></th></cpu<>	mode]	1>	<1	?arti	tions-	>	<	-CPU	Count	3>	>
Time	Node	VirtID	Lvl Name	Nbr <	<ibm <model=""></ibm>	/CPs/	serial	Max	Cur	Stat I	Dyn	Tot	Actv	Quies	Inact	t < Priority of Partitions>
06:14:00	zvse61b	ZVSE61B	1 VSIVM5	51	IBM 2828-A02	02 (7	714C702)	80	21	12	9	1	1	0	0	0 =F9(100)=FA(100),BG,O,F2,R,Z,T,V,F3,FB,F
06:14:00	zvse61c	ZVSE61C	1 VSIVM5	51	IBM 2828-A02	02 (7	714C702)	80	19	12	7	1	1	0	0	0 0)=F5(100)=F4(100),BG,R,O,F2,Z,T,FB,F3,F
06:14:00	zvse62b	ZVSE62B	1 VSIVM5	5 1	IBM 2828-A02	02 (7	714C702)	80	21	12	9	1	1	0	0	0 (100)=FA(100),BG,O,F8,F2,R,Z,T,V,F3,FB,F
06:14:00	zvse62c	ZVSE62C	1 VSIVM5	5 1	IBM 2828-A02	02 (7	714C702)	80	17	12	5	1	1	0	0	0 0)=FA(100)=BG(100),F8,O,F2,R,Z,T,F3,FB,F
06:14:00	BSI62	VSE62	1 JCB	1 1	IBM 1090-306	02 (2	234502)	120	19	12	7	1	1	0	0	0 100)=F5(100),F2,F3,R,Z,F4,S,O,F7,FB,BG,F



ESAVSEC	2 😲 🚍 🥖	' 🕕 🔂												
	ES	SAVS	SEC	- VS	SE Sy	ysten	n Per	form	ance	- VI	//2	I	• 🧷 😨) 🕹 🗖 😢
Time	Node	Pages In	S/Sec Out	<rate SVC</rate 	/Sec> DSP	<cpu u<br="">Total</cpu>	Jtiliza Mstr	tion> Spin	All Bound	Pc	ct NP Seconds	Samples		
11:09:00 11:09:00 11:09:00 11:09:00	zvse61b zvse61c zvse62b zvse62c	0 0 0 0	0 0 0 0	1156 922 299 854	1139 891 353 805	5.1 3.9 0.6 1.7	1.7 1.6 0.3 0.8	0 0 0	94.1 95.5 99.1 97.7	33. 41. 47. 48.	.5 59.9 .6 59.9 .9 60.0 .0 60.0	1 1 1 1		
$\mathbf{\sim}$	ESAVS	EC2	- V\$	SE S	yste	m Pe	erforr	nanc	e pei	r CPI	U - VM2	Í.	0/0) 🚽 🗖 😢
Time	ESAVS Node	EC2	- VS Disp /Sec	SE S <cpu Tota</cpu 	yste JUtil al Ms	m Pe ization tr Sp.	n> Al in Bou	nanc	e per	conds	U - VM2 Samples	Í.	•••••••••••••••••••••••••••••••••••••••	





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	AVSE	- C	VSE	E Sys	stem	Perfo	rmai	nce -	Demo		ũ 🏹 🕒 🛓	/ 🕗 🚽 🖸 🔀
Time	Node	Pages In	/Sec Out	<rate SVC</rate 	e/Sec> DSP	<pre>CPU U Total</pre>	Jtiliza Mstr	tion> Spin	All Bound	Pct NP	Seconds	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	
03:5/:00	zvse62b	0	0	4070	3006	32.5	12.7	0	10 0	34.2	59.1	1	
03:55:00	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	ő	47.2	49.8	60.5	1	
03:53:00	zvse62b	ő	õ	4652	3543	25.9	12.9	ő	48.3	49.7	59.2	1	
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	zvset2b	0	0	4/85	3670	27.1	13.5	0	43.2	49.8	60.0	1	
03:44:00	zvse62b	0	0	5002	3819	27.8	13.8	0	45.0	49.9	60.0	1	
03:42:00	zvse62b	ő	ő	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	50.6	1	
03:34:00	zvse62b	0	0	4386	3316	25.6	12.6	0	27.9	49.0	60.0	1	
03:32:00	zvse62b	ő	ő	4412	3313	25.7	12.6	ő	22.1	49.2	59.5	1	
03:31:00	zvse62b	0	0	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	36//	26.9	13.4	0	46.0	49.8	50.0	1	
03:23:00	zvse62b	0	0	4682	3504	60.4	12.8	0	4.4	21.1	59.5	1	
03:22:00	zvse62b	0	ő	4679	3607	58.6	14.0	0	0.0	23.9	60.1	1	
03:21:00	zvse62b	ō	ő	10K	5024	57.6	23.1	0	0	40.1	60.7	1	
03:20:00	zvse62b	0	0	11K	5715	56.4	26.9	0	0	47.7	59.2	1	
03:19:00	zvse62b	0	0	12K	5409	56.3	26.8	0	0	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	3580	2614	22.9	10.0	0	0	43.4	60.1	1	
03:12:00	zvse62b	ő	0	3633	2682	22.5	10.1	0	0	45.1	59.9	1	
03:11:00	zvse62b	ő	ő	3999	2936	27.8	11.0	ő	ő	39.6	60.5	1	
03:10:00	zvse62b	0	0	4216	3143	40.6	11.8	0	0.0	29.1	59.9	1	
03:09:00	zvse62b	0	0	4180	3080	33.6	11.6	0	0	34.5	60.4	1	
03:08:00	zvse62b	0	0	3962	2938	32.4	11.0	0	0	34.1	59.5	1	
03:07:00	zvse62b	0	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	0	0	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	zvseb2D	0	0	4220	2004	32.6	11.8	0	0 0	36.3	60.0 60.0	1	
03.01.00	zvseo2D	0	0 0	4001	2994	31.0	12 1	0	0.0	30.5	59.4	1	

z/VSE Partitions

ESAVSEP - VM4 🛛 🔁 🥖 🖲 🖄

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$\mathbf{>}$				ESAV	SEP	- VS	E Pa	rtitio	n Pe	rfor	man	ce - VN	14			Ĩ 🗐 🖲 .	22	₽ 🕑 🤅
		Part	Job	Phase	<- CP	U% ->	<	- 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	F1	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	S1	BSTTINET	BSTTINET	0.6	0.1	0	0	0			06/04/20	08:01:36			4	0	53417
10:01:00	zvse61b	т1	BSTTVNET	BSTTVNET	0.3	0.1	0	0	0			06/04/20	08:02:07			5	0	53418
10:01:00	zvse61b	т2	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	zvse61b	R2	STARTMAS	IESMASNM	0.2	0.0	0	0	0			06/04/20	08:01:55			7	0	53421
10:01:00	zvse61b	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	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	Fl	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	R1	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	¥3	3 Job	steps V	26.7	3.6	3700	0	83.0							20	0	
10:01:00	zvse62b		Totals		1.0	0.4	511.0	0	1326									
10:01:00	zvse62b	Fl	POWSTART	IPWPOWER	0.1	0.0	48.0	0	6.0			05/21/20	08:09:14			1	0	0
10:01:00	zvse62b	FB	SECSERV	BSTPSTS	0	0	0	0	0			05/21/20	08:09:14			2	0	0
10:01:00	zvse62b	F3	VTAMSTRT	ISTINCVT	0.0	0.0	0	0	0			05/21/20	08:09:28		SYSA	3	0	36114
10:01:00	zvse62b	т1	BSTTINET	BSTTINET	0.3	0.1	0	0	0			05/21/20	08:09:31			4	0	36116
10:01:00	zvse62b	т2	BSTTVNET	BSTTVNET	0.1	0.0	0	0	0			05/21/20	08:10:01			4	0	36117
10:01:00	zvse62b	т3	BSTTFTPD	BSTTFTPS	0	0	0	0	0			05/21/20	08:10:01			4	0	36118
10:01:00	zvse62b	Z1	DMFSTART	DFHDFSIP	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	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	0	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	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	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

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z/VSE Partitions

ESAVSEP - VM4 🛛 😨 🥖 🔍 😫

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		Part	Job	Phase	<- CP	U% –>	<	- I/O ·	>	Rtrn	Cncl	< St	art>	Stop					Job
Time	Node	Id	Name	Name	CPU	Ovhd	Disk	VDisk	Other	Code	Code	Date	Time	Time	User In	nfo	Prty	Share	Num
10:01:0	0 zvse61b		Totals		3.9	0.6	230.0	0	16.0										
10:01:0	0 zvse61b	Fl	POWSTART	IPWPOWER	0.0	0.0	19.0	0	15.0			05/21/20	07:55:58				1	0	0
10:01:0	0 zvse61b	FB	SECSERV	BSTPSTS	0	0	0	0	0			05/21/20	07:55:57				2	0	0
10:01:0	0 zvse61b	F3	VTAMSTRT	ISTINCVT	0.0	0.0	0	0	0			05/21/20	07:56:01		SYSA		3	0	49844
10:01:0	0 zvse61b	S1	BSTTINET	BSTTINET	0.6	0.1	0	0	0			06/04/20	08:01:36				4	0	53417
10:01:0	0 zvse61b	т1	BSTTVNET	BSTTVNET	0.3	0.1	0	0	0			06/04/20	08:02:07				5	0	53418
10:01:0	0 zvse61b	т2	BSTTFTPD	BSTTFTPS	0	0	0	0	0			06/04/20	08:02:06				5	0	53419
10:01:0	0 zvse61b	Z1	DMFSTART	DFHDFSIP	0.1	0.0	0	0	1.0			06/04/20	08:02:55				6	0	53422
10:01:0	0 zvse61b	Rl	STARTVCS	IESVCSRV	0.0	0.0	0	0	0			06/04/20	08:01:51				7	0	53420
10:01:0	0 zvse61b	R2	STARTMAS	IESMASNM	0.2	0.0	0	0	0			06/04/20	08:01:55				7	0	53421
10:01:0	J zvse61b	F2	CICSICCF	DFHSIP	0.1	0.0	9.0	0	0			05/21/20	07:56:35		SYSA		8	0	49850
10:01:0	J ZVSe61b	01	CICSJA60	DFHSIP	1.7	0.3	183.0	0	0			05/26/20	20:14:34				9	0	51255
10:01:0	2VSe61b	02	CICSJB60	DFHSIP	0.8	0.1	19.0	0	442 0			05/26/20	20:14:44				9	0	51256
10:01:0	J ZVSebic	191	TOTAIS	TRUDOWED	5/.4	/.8	18/40	0	442.0			AE /21 /20	00.07.43				,		•
10:01:0	J zvsebic	F I PD	CRCCPRU	Dempere	0.1	0.0	54.0	0	3.0			05/21/20	00:07:43				2		0
10:01:0	J zvsetic	11	UTAMOTOT	DSTPSTS TOTTNOUT		0 0	0	0	0			05/21/20	08:07:43		CVCA		2		50022
10:01:0	zvse61c	r 3 771	TCDTDOO	IDNET	1 1	0.0	0	0	0			05/21/20	10.30.32		SISA		4	0	51227
10.01.0	2vseoic	T2	SUSESBUR	SUSESDUD	0.0	0.1	0	ő	0			05/23/20	16.40.03				4	0	51554
10.01.0	2vseoic	21	DWFSTART	DEHDESTP	0.0	0.0	16.0	ő	1.0			05/22/20	10.31.55				5	0	51231
10:01:0	zvse61c	RI	STARTVCS	TESVCSRV	0.0	0.0	10.0	ő	1.0			05/22/20	10:31:09				6	ő	51229
10:01:0	zvse61c	R2	STARTMAS	IESMASNM	0.2	0.0	ő	ő	ŏ			05/23/20	16:45:30				6	ŏ	51559
10:01:0	zvse61c	F2	CICSICCE	DFHSTP	0.0	0.0	0	0	0			05/21/20	08:08:13		SYSA		7	0	50937
10:01:0	zvse61c	01	CICSJA68	DFHSIP	1.8	0.2	206.0	0	0			05/21/20	08:08:28				8	0	50938
10:01:0	0 zvse61c	¥1	2 Job	steps V	2.5	0.3	2226	0	204.0								20	0	
10:01:0	zvse61c	¥2	3 Job	steps V	24.9	3.4	12558	0	151.0								20	0	
10:01:0	0 zvse61c	¥2	SCANVSM2	ARXREXX	2.4	0.4	2253	0	14.0			06/05/20	10:00:48		VSM2		20	0	54781
10:01:0	0 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
10:01:0	0 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
10:01:0	0 zvse61c	¥3	3 Job	steps V	26.7	3.6	3700	0	83.0								20	0	
10:01:0	0 zvse62b		Totals		1.0	0.4	511.0	0	1326										
10:01:0	0 zvse62b	Fl	POWSTART	IPWPOWER	0.1	0.0	48.0	0	6.0			05/21/20	08:09:14				1	0	0
10:01:0	0 zvse62b	FB	SECSERV	BSTPSTS	0	0	0	0	0			05/21/20	08:09:14				2	0	0
10:01:0	0 zvse62b	F3	VTAMSTRT	ISTINCVT	0.0	0.0	0	0	0			05/21/20	08:09:28		SYSA		3	0	36114
10:01:0	0 zvse62b	т1	BSTTINET	BSTTINET	0.3	0.1	0	0	0			05/21/20	08:09:31				4	0	36116
10:01:0	0 zvse62b	т2	BSTTVNET	BSTTVNET	0.1	0.0	0	0	0			05/21/20	08:10:01				4	0	36117
10:01:0	0 zvse62b	т3	BSTTFTPD	BSTTFTPS	0	0	0	0	0			05/21/20	08:10:01				4	0	36118
10:01:0	J zvse62b	Z1	DMFSTART	DFHDFSIP	0.1	0.0	0	0	1.0			06/05/20	07:44:50				5	0	44145
10:01:0	zvse62b	R1	STARTVCS	IESVCSRV	0.0	0.0	0	0	0			05/21/20	08:10:07				6	0	36122
10:01:0	zvse62b	R2	STARTMAS	TESMASNM	0.1	0.0	0	0	0			05/21/20	08:10:06		avar		6	0	36123
10:01:0	zvse62b	F2	CICSICCF	DFHSIP	0.0	0.0	0	0	0			05/21/20	08:09:51		SYSA		7	0	36120
10:01:0	zvse62b	01	CICSJA95	DEHSIP	0.2	0.1	200 0	0	070 0			05/21/20	08:10:07				8	100	30121
10:01:0	zvse62b	r'4	Z JOD	steps V	0.1	0.0	108.0	0	6/8.0		10	06/05/00	10.00.00	10.00.00			9	100	44201
10:01:0	J ZVSe62D	r5	LIBRDIK3	LIBK	0.0	0.0	122.0	0	441.O	0	10	06/05/20	10:00:00	10:00:00			9	100	44201







	zvse62b Partition Utilization - Demo	⊊♀≥≥⊚€
100 92	POWSTART F1 CICSICCF F2 VTAMSTRT F3 CICSIA95 01 STARTVCS R1 STARTMAS R2 STGPLAY S1 BSTTINET T1 BSTTVNET T2 MMONVSE V1 DMFSTART Z1	
83	3	
75		
/5		
67	7	
50		
58		
ation		
CPU Utiliz		
42		
25		
17		
8		
0	2020/02/10 06:23	





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

Todav is Saturdav 13 Jun 2020

It can be used as a launch point into those LPARs



	Y E	nterpris	e Perf	ormanc	e Summary
VM2					Expand
<u>VM2</u> 14:59 IFL	Total (1)	1.09%			
		VSE Syst	tems		
zvse61c	28.15%				
zvse62b	28.14%				
zvse62c	27.17%				
win	27.12%				
zvse61b	26.97%				
	8 Li	nux Nodes(z/	VM-Guests	s)	
DOCKER (1)	2.25%				
redhat6x (1)	0.49%				
<u>s11s2ora</u> (2)	0.40%				
redhat6 (1)	0.12%				
$\frac{\text{redhat6S}}{1}$	0.12%				
redhat62 (1)	0.12%				
$\frac{\mathbf{reanatolyl}}{\mathbf{real}(1)}$	0.08%				
<u>sles12</u> (1)	0.03%	- Madas (Dista	thursd Som	(200	
15mmr0 (5)	2 Linux	I Nodes(Dist	Ibuted Ser	versj	
$\frac{1111}{1111} (3)$	102.94%				
<u>mongouz</u> (2)	0.24%	L			

MyVSE View

Click on a VSE system name to bring up MyVSE for that system

MYVSE	2 🖬 🎸	2 🖲 🤇	3																										
🔽 ESA	AVSEC2	2 - VS	E Sys	stem P	erform	ance p	er CPl	J - VM2	2 📬	• 🧷	2 🗕 🕻					ESA\	VSE S	- VSE	Systen	n Cor	nfigura	ation -	VM2				- ÉĮ () 🧷 🤅) 🚽 🗖 🔇
Time	Node		CPU	Disp /Sec	<cpu u<br="">Fotal</cpu>	tiliza Mstr	tion> Spin	All Bound	Pct NP	Second	ds Sampi	les Tim	e N	ode	<z vm<br="">VirtID</z>	Lvl Na	ogica: me	Part> < Nbr <ib< th=""><th>CPU M/<model></model></th><th>J model >/CPs/</th><th>serial</th><th><pre>> <part <="" cui="" max="" pre=""></part></pre></th><th>Stat Dy</th><th>> <(n Tot Ac</th><th>CPU Count ctv Quies</th><th>s> Inact</th><th><</th><th>Priori</th><th>ty of Par</th></ib<>	CPU M/ <model></model>	J model >/CPs/	serial	<pre>> <part <="" cui="" max="" pre=""></part></pre>	Stat Dy	> <(n Tot Ac	CPU Count ctv Quies	s> Inact	<	Priori	ty of Par
15:07:0	0 zvse	51c	0	423	1.2	0.8	0	98.7	67.4		60	1 15:	07:00 z	vse61c	ZVSE61C	1 VS	IVM5	5 IBM	8562-A02	202(4	0F782)	80 18	3 12	61	1 0	0	0)=F5(1	00)=F4(100),BG,O
		E	SAV	SEC	- VSE	E Sys	stem	Perfo	orma	nce -	VM2	_	[Î 🛈 🧷	2) 🗕 🗖	$\overline{8}$			VSE	E CPL	J Utili	zation	by Noc	le		(1)/%) 🚽 🗖 🔇
Time	Nodo		Pages	/Sec <	Rate/S	ec> <c< td=""><td>PU Uti</td><td>lizatio</td><td>on> A</td><td>.11 ound</td><td>Pct</td><td>Cogonda (</td><td>amples</td><td></td><td></td><td></td><td>70 -</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td></c<>	PU Uti	lizatio	on> A	.11 ound	Pct	Cogonda (amples				70 -						-						
15:07:0		51c			 397 4	 23		 0.8	 0	 98.7	67.4	60.1	 1					zvse61	c										
			•						·				-				60 -											_	
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	_			_		_	_	_		_	_		_		_	-	50 -										-A	_	
\leq		ES	AVS	SEP -	VSE	Part	ition	Perf	orma	ance	- VM2		Ū.	Í 🛛 🧷 (2 🚽 🗖	8													
Time	Node		Part Id	Job Name	Pha Nam	se ·	CPU CPU	* -> <- Ovhd I	Disk V	1/0 Disk 01	ther Co	rn Cncl < de Code	Date	art: Time	> Stop Time	ion	40 -												
15:07:0	0 zvse	51c		Totals	ет трw	POWER	1.0	0.2 1	13.0	0	1.0		5/21/20	08.07.4	3	ilizat													
15:07:0	0 zvse	51c	FB F3	SECSER	V BST	PSTS	0.0	0.0	0	0	0	0	5/21/20	08:07:4	3 0	U Ut	30 -												
15:07:0 15:07:0	0 zvse	51c 51c	T1 T2	TCPIP0 SVSESR	0 IPN VR SVS	ET ESRVR	0.5	0.1	0	0	0	0	5/22/20 5/23/20	10:30:3	2 3	СЬ									$\langle \rangle$				
15:07:0 15:07:0	0 zvse	51c 51c	Z1 R1	DMFSTA STARTV	RT DFH	DFSIP VCSRV	0.2	0.1 1	13.0 0	0 0	1.0	0	5/22/20 5/22/20	10:31:5	5 9		20 -												
15:07:0 15:07:0	0 zvse 0 zvse	51c 51c	R2 F2	STARTM CICSIC	AS IES CF DFH	MASNM SIP	0.2	0.0 0.0	0 0	0 0	0 0	0 0	5/23/20 5/21/20	16:45:3 08:08:1	0 3														
15:07:0	0 zvse	51c	01	CICSJA	68 DFH	SIP	0.0	0.0	0	0	0	0	5/21/20	08:08:2	В		10 -												
																								1					
																	0										_	-	
																3	A:32A:	29. 40. 41. 1 14. 14. 14.	14.14.1	A.14.1	1.47.48	.49.50.5 14.14.5	14:52.53	54.55	50.51.58 14.14.18	:52:00	:015:02 15:15	03.04.	05.06.07
					F	- 1-					Y																		

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Load the MyVSE view to see all VSE systems

MYVSE 🕐 🧮 🥖 🛽 🔇

\checkmark	ESAVS	EC2	- VSE	Syst	em Perl	ormar	ice pe	r CPU -	VM2	Ĩ Į II .	/ 🕑 🚽 🗖 😢						ES	SAVSES	6 - VSE	E Syste	m Cor	figura	ation	- VM2						ſ	¥0/	°₽₽	
Time	Node	CDU	Disp /Soc	<cpu th="" ut<=""><th>ilization</th><th>All Bound</th><th>Pct</th><th>conda far</th><th>mlog</th><th></th><th></th><th>Time</th><th>Node</th><th><z th="" vm-<=""><th>> <logical< th=""><th>Part> <</th><th>DM / Cmr</th><th> CPU mode</th><th>el</th><th>-> <par< th=""><th>titions-</th><th>-> <</th><th>-CPU Co</th><th>unts</th><th>></th><th>Briorit</th><th>ty of Pa</th><th>rtitione</th><th></th><th></th><th></th><th></th><th></th></par<></th></logical<></th></z></th></cpu>	ilization	All Bound	Pct	conda far	mlog			Time	Node	<z th="" vm-<=""><th>> <logical< th=""><th>Part> <</th><th>DM / Cmr</th><th> CPU mode</th><th>el</th><th>-> <par< th=""><th>titions-</th><th>-> <</th><th>-CPU Co</th><th>unts</th><th>></th><th>Briorit</th><th>ty of Pa</th><th>rtitione</th><th></th><th></th><th></th><th></th><th></th></par<></th></logical<></th></z>	> <logical< th=""><th>Part> <</th><th>DM / Cmr</th><th> CPU mode</th><th>el</th><th>-> <par< th=""><th>titions-</th><th>-> <</th><th>-CPU Co</th><th>unts</th><th>></th><th>Briorit</th><th>ty of Pa</th><th>rtitione</th><th></th><th></th><th></th><th></th><th></th></par<></th></logical<>	Part> <	DM / Cmr	CPU mode	el	-> <par< th=""><th>titions-</th><th>-> <</th><th>-CPU Co</th><th>unts</th><th>></th><th>Briorit</th><th>ty of Pa</th><th>rtitione</th><th></th><th></th><th></th><th></th><th></th></par<>	titions-	-> <	-CPU Co	unts	>	Briorit	ty of Pa	rtitione					
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\leq				E	SAVSE	; - vsi	= Syste	em Perf	ormance	e - VIVI2	2			I 💷 🥖	1						VSE	CPU	Utiliza	ition b	y Node	3					↓	°≌ ⊎ (
Time	Node	Page In	s/Sec < Out	Rate/Se SVC DS	c> <cpu u<br="">P Total</cpu>	ilizati Mstr S	on> All pin Bou	nd NP	Seconds Sa	amples						100																	
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Time	Node	Part Id	Job Name	Phas Name	e <- Cl CPI	9U% -> <- J Ovhd 1	Disk VDi)> F sk Other C	trn Cncl <-	Date	rt> Stop Time Time	User I	nfo	Prty Sh	Job are Num	60	-																-11
10:10:	00 zvse61b 00 zvse61b	F1	Totals	RT IPWP	4.1 OWER 0.1	3 0.6 2	12.0	0 1.0	05	5/21/20	07:55:58			1	0 0	G																	- 11
10:10:	00 zvse61k	FB	SECSER	V BSTP	STS	0	0	0 0	05	5/21/20	07:55:57			2	0 0	50 zat	4																
10:10:	00 zvse61b 00 zvse61b	F3	DSTTIN	RT ISTI ET BSTT	NCVT 0.0	5 0.0	0	0 0	05	5/21/20	07:56:01 08:01:36	SYSA		3	0 49844 0 53417	GEI	N - 1																- 11
10:10:	00 zvse61k	т1	BSTTVN	ET BSTT	VNET 0.	0.1	0	0 0	06	5/04/20	08:02:07			5	0 53418	Ę	н.																- 11
10:10:	00 zvse61b 00 zvse61b	T2	BSTTFI	PD BSTT RT DFHD	FTPS (0.0	0	0 0	06	5/04/20	08:02:06			5	0 53419	0 40	н.											111					
10:10:	00 zvse61b	Rl	STARTY	CS IESV	CSRV 0.	0.0	0	0 0	06	5/04/20	08:01:51			7	0 53420		н.																- 11
10:10:	00 zvse61b	R2	STARTM	AS IESM	ASNM 0.1	0.0	0	0 0	06	5/04/20	08:01:55	SVCA		7	0 53421		н.								- r	- X							- 11
10:10:	00 zvse61b	01	CICSJA	60 DFHS	IP 2.4	0.3 1	95.0	0 0	05	5/26/20	20:14:34	DIDA		9	0 51255	30	H-							_		- P						_	
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10:10:	00 zvse61c 00 zvse61c	Fl	POWSTA	RT IPWP	3 OWER 0.0	0.52	e9.0 0	0 1.0	05	5/21/20	08:07:43			1	0 0		ы.										M I						- 11
10:10:	00 zvse61c	FB	SECSER	V BSTP	STS	0 (0	0 0	05	5/21/20	08:07:43			2	0 0	20	\rightarrow																
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10:10:	00 zvse61c	т2	SVSESR	VR SVSE	SRVR 0.	0.0	ō	0 0	05	5/23/20	16:40:03			4	0 51554		11											11					- 11
10:10:	00 zvse61c	Z1	DMFSTA	RT DFHD	FSIP 0.3	2 0.0	16.0	0 1.0	05	5/22/20	10:31:55			5	0 51231	10																	
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10:10:	uu zvse61c 00 zvse62b	01	Totals	68 DFHS	1P 1.1	/ 0.32	0.22 0	0 1.0	05	5/21/20	08:08:28			8	u 50938	0					-							-					
10:10: 10:10:	00 zvse621 00 zvse621	F1 FB	POWSTA	RT IPWP	OWER 0.0	0.0	0	0 0	05 05	5/21/20 5/21/20	08:09:14 08:09:14			1 2	0 0 0 0	09:4	109:42	09:43 09:44	09:45 09:4	69:4709:	48,9:49,09	.50 09:51		5309:5409	:55 09:56	9:57 09:58	09:59 10:0	00,00,10	.02 10:03 10:04	10:05 10:0	20:0720	.0810:09	0:10



MyVSE View



07:39:00 zvse62c





TCP/IP Data

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1 Time (Node/	Curr							mitcaci	.011878	scond >	~ ~01	DP Dat	agrams	s per	secon	a>						
Time (Cull	<opens< th=""><th>s/Sec></th><th><clos< th=""><th>es/Sec</th><th>:> <</th><th>-Segmei</th><th>nts Tra</th><th>nsmit</th><th>ted></th><th>• Total</th><th>l Tot</th><th>al <</th><th><</th><th>Errors</th><th>></th><th></th><th></th><th></th><th></th><th></th><th></th></clos<></th></opens<>	s/Sec>	<clos< th=""><th>es/Sec</th><th>:> <</th><th>-Segmei</th><th>nts Tra</th><th>nsmit</th><th>ted></th><th>• Total</th><th>l Tot</th><th>al <</th><th><</th><th>Errors</th><th>></th><th></th><th></th><th></th><th></th><th></th><th></th></clos<>	es/Sec	:> <	-Segmei	nts Tra	nsmit	ted>	• Total	l Tot	al <	<	Errors	>						
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TCP/IP Data



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Main menu 🗙	Friday 12 Jun 2020 07:42	zVIEW Version 5112	
Add tab Arrange		zVIEW - Velocity Software - VSIVM4 (VM4)	
Load View Save View		Performance Displays for z/VM, Linux, z/OS and z/VSE	
Color config	SOFTWARE		
VSIVM4	Menu		
	ZOSCIX1 - VM4 🛛 🔮 🥖 🖲		
Capacity		ZOSCIX1 - CICS Analysis - VM4	TI 🛛 🧨 🕑 🖳 🔝 😢
System	Time SYSID <cics h<="" th=""><th>Program-> <start> Platform <location> <transactions-> <task statistics=""></task></transactions-></location></start></th><th></th></cics>	Program-> <start> Platform <location> <transactions-> <task statistics=""></task></transactions-></location></start>	
Service Level Analysis			
llear	07:42:00 VSI1 CICSZA1 07:42:00 VSI1 CICSZA2	CICSJZ1 05/26/20 14:07:18 z/OS 0720 ZOSLP1 815 0.022 0.007 816 50 1 2.0 0 CICSJZ2 05/26/20 14:08:46 z/OS 0720 ZOSLP1 863 0.022 0.008 855 50 0 0	
Shared File System	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	
CPI	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	
Main Storage			
Paging and Spooling			
Input/Output Subsystem		ZOROWO OLOR Transportion Analysis VM4	
Network		ZUSCIXZ - CICS Transaction Analysis - VM4	
Linux		Transactions> Total Susp Disp CPU PC zIIP Total First I/O Uncapt Disp	
Linux Application	Time SYSID APPLID (Coup Count Resp Time Time Time Load CPU CPU Disp Other Wait Wait Ratio	
SSC/Docker	07:50:00 VSI1 CICSZA1	Notals 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 CICSZA1 1	Notals 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 1 07:50:00 V61C CICSJA68 1	Inflight 0 0 0 Notals 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 1	Inflight 0 0 0	
ZOSCIX2 ZOSCIX3			
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					<-Res	ponse !	Time->	<di< th=""><th>spatch</th><th>1></th><th><;</th><th>Suspe</th><th>end T</th><th>ime</th><th>per</th><th>Tran</th><th>ı (ms</th><th>)></th><th><</th><th>Su</th><th>spen</th><th>d Tim</th><th>ne per</th><th>r Tra</th><th>in ()</th><th>ms)</th><th>></th><th></th></di<>	spatch	1>	<;	Suspe	end T	ime	per	Tran	ı (ms)>	<	Su	spen	d Tim	ne per	r Tra	in ()	ms)	>	
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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	VSI1	CICSZA1	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	VSI1	CICSZA1	STR5	27	0.045	0.014	0.062	0.013	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:52:00	VSI1	CICSZA1	STR6	26	0.036	0.016	0.042	0.012	0	0	9.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:52:00	VSI1	CICSZA1	STR7	22	0.044	0.021	0.045	0.015	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:52:00	VSII	CICSZA1	STR8	25	0.037	0.008	0.059	0.016	0	0	6.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:52:00	VSII	CICSZAI	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	VSII	CICSZAI	ZIPC	191	0.007	0.004	0.006	0.001	0	0	1 22	0	0	2 0	0	0	0 1	0	0	0	0	0	0	0	0	0	0	
07:52:00	VSII	CICSZAI	ZIPR	191	0.038	0.006	0.062	0.01/	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	VSII	CICSZAI	SIPU	187	0.011	0.008	0.007	0.001	0	0	2.39	0	0	0.0		0	2.5	0	0	0	0	0	0	0	0	0	0	
07:52:00	VSII	CICSZA2	CODI STDH	29	0.209	0.200	0.003	0.000	0	0	0.01	0	0	0	0	0	0	ő	0	0	0	0	õ	0	0	0	0	
07:52:00	VSII	CICSZA2	STR1	27	0 014	0 010	0.001	0.003	ő	ő	ŏ	0	0	ő	ő	ő	ő	ő	ő	ő	ő	0	ŏ	0	ñ	ő	ő	
07:52:00	VSTI	CICSZA2	STR2	30	0.016	0.010	0.012	0.005	ő	ő	ő	ő	ő	ő	ő	ő	ő	ő	ő	ő	ő	ő	ŏ	ő	ő	ő	ő	
07:52:00	VSTI	CICSZA2	STR3	22	0.016	0.007	0.020	0.005	ő	ő	ő	ő	ő	ő	õ	ő	ő	ő	ő	ő	õ	ő	ő	ő	ő	õ	ŏ	
07:52:00	VSII	CICSZA2	STR4	23	0.016	0.005	0.022	0.007	ő	ő	ő	õ	ő	ő	õ	ő	ő	ő	õ	õ	õ	õ	ő	õ	õ	õ	õ	
07:52:00	VSI1	CICSZA2	STR5	34	0.028	0.006	0.044	0.012	ō	ō	ō	ō	ō	ō	ō	ō	ō	ō	0	ō	ō	ō	ō	ō	ō	ō	ō	
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	VSI1	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	VSI1	CICSZA2	ZIPU	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	STRH	37	0.011	0.000	0.011	0.005	0		0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	
07:52:00	V61C	CICSJA68	STR2	33	0.012	0.001	0.011	0.008	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	STR/	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	VOIC	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	
07:52:00	V02B	CICSJA95	CTTP 1	35	0.004	0.001	0.003	0.001	0	•	0.03	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	0.002	0.001	ő	•	0.01	ő	ő	0.0	ő	ŏ	ő	ő	ő	ő	ő	0	ŏ	ő	ő	ő	ő	
07:52:00	V62B	CICSJA95	STR3	37	0.002	0.000	0.002	0.001	ő		0.01	ő	ő	0.0	ő	ő	ő	ő	ő	ő	ő	ő	ő	ő	ő	õ	ő	
07:52:00	V62B	CICSJA95	STR4	38	0.002	0.000	0.002	0.001	ő	:	0.01	ő	ő	0.0	õ	ő	0	õ	õ	õ	õ	0	õ	õ	õ	õ	õ	
07:52:00	V62B	CICSJA95	STR5	36	0.002	0.000	0.002	0.001	ő	:	0.02	ő	õ	0.0	õ	ő	Ő	ō	õ	õ	ō	õ	õ	ō	õ	ō	õ	
07:52:00	V62B	CICSJA95	STR6	34	0.002	0.000	0.002	0.001	ő		0.02	ő	Ő	0.0	0	ő	ő	0	0	0	0	ō	0	0	ō	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	V62B	CICSJA95	STR9	34	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	













CICS Views





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CICS Views

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			<-Res	ponse Tim	ie-> <	-Dispate	n> <	Susper	nd Time p	per Tra	n (ms)-	> <	Sus	oend Tim	e per T	ran (ms)>	0.10		
		Tran	Total	Susp D	isp CI	PU PC	zIIP Dis	P MXT	TC				Shr	CF	Sockets	<-LU	>	0.10		
Time	SYSID APPLID	ID C	Count Resp	Time T	ime Tir	me Load	CPU Wai	t Dly D	Oly Trm a	Jrn TS	5 File M	IRO TE	TS R	LS Dtbl	In Out	61 6	2 FEPI			
																		0.08 -	Susp Time	
07:57:	00 VSI1 CICSZAI	CSSY	5 0.200	0.200 0.	001 0.00	00 U	0 0.63	3 0	0 0	0 0	0	0 0	0	0 0	0 0	0 0	0 0	ds	Disp Time	
07:57:	00 VSII CICSZAI	STRD STR1	20 0.011	0.007 0.	008 0.0	02 0	0.5.0	7 0	0 0	0 0		0 0	0	0 0	0 0	. 0	0 0	LO		
07:57:	00 VSII CICSZAI	STR1	23 0.026	0.017 0.	018 0.0	05 0	0 1	1 0	0 0	0 0	0	0 0	ő	0 0	0 0	. 0	0 0	e 0.06 -		
07:57:	00 VSI1 CICSZA1	STR3	28 0.014	0.006 0.	015 0.00	05 0	0 4.1	0 0	0 0	õ d	0	0 0	0	0 0	0 0	0	0 0	(s		
07:57:	00 VSI1 CICSZA1	STR4	26 0.035	0.015 0.	040 0.0/	09 0	0 5.7	2 0	0 0	0 0	0	0 0	0	0 0	0 0	0	0 0	ne		
07:57:	00 VSI1 CICSZA1	STR5	24 0.028	0.010 0.	037 0.07	11 0	0 6.00	9 O	0 0	0 0	0 (0 0	0	0 0	0 0	0 (0 0	E 0.04 -		
07:57:	00 VSI1 CICSZA1	STR6	29 0.041	0.017 0.	047 0.0	15 0	0 5.4/	4 0	0 0	0 0	0 (0 0	0	0 0	0 0	0 1	0 0	ίο.		
07:57:	00 VSI1 CICSZA1	STR7	26 0.038	0.019 0.	039 0.03	13 0	0 10	0 0	0 0	0 0	0 0	0 0	0	0 0	0 0) 0	0 0	Suc		
07:57:	00 VSI1 CICSZA1	STR8	31 0.049	0.018 0.	062 0.03	18 0	0 13	3 0	0 0	0 0	0 0	0 0	0	0 0	0 0	10	0 0	d 0.02 -		
07:57:	00 VSI1 CICSZAI	STR9	25 0.041	0.017 0.	049 0.01	17 U	0 13	3 0	0 0	0 0) ()	0 0	0	0 0	0 0) U	0 0	(es		
07:57:	00 VSII CICSAAI	ZIPC	206 0.008	0.005 0.	005 0.00	01 0	0 1 4	9 U	0 0	0 0	0 0	0 0	0	0 0	0 0	0	0 0	μ.		
07.57.	00 VSII CICSZAI	ZIPR	202 0.037	0.007 0.	007 0.0	1/ 0	0 2.0	5 0	0 0.0	0 0	2.3	0 0	0	0 0	0 0	. 0	0 0	0.00 -		
07:57:	00 VSII CICSZA2	CSSY	1 0.212	0,211 0.	001 0.0	00 0	0 0.0	1 0	0 0	ŏ	0 2.0	0 0	ŏ	0 0	0 0	. 0	0 0		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
07:57:	00 VSI1 CICSZA2	STRH	35 0.012	0.006 0.	013 0.0	04 0	0	0 0	0 0	ō c	0 0	0 0	ō	0 0	0 0	0	0 0		JUST JUST (SIA)	
07:57:	00 VSI1 CICSZA2	STR1	32 0.005	0.001 0.	008 0.0/	02 0	0	0 0	0 0	0 0	0	0 0	0	0 0	0 0	0	0 0		Cre Cre Cre	
07:57:	00 VSI1 CICSZA2	STR2	30 0.013	0.005 0.	016 0.00	05 0	0 /	0 0	0 0	0 0	0 0	0 0	0	0 0	0 0	0	0 0	1511	, 511 , 51C , 52B	
07:57:	00 VSI1 CICSZA2	STR3	30 0.012	0.002 0.	019 0.00	07 0	0 (0 0	0 0	0 0	0 (0 0	0	0 0	0 0	0 6	0 0	1	10. 10.	
07:57:	00 VSI1 CICSZA2	STR4	27 0.016	0.006 0.	019 0.00	08 0	0 (0 0	0 0	0 0	0 (0 0	0	0 0	0 0	0 1	0 0		2020/06/12 07:57	h
07:57:	00 VSI1 CICSZA2	STR5	34 0.020	0.006 0.	027 0.03	11 0	0 0	0 0	0 0	0 0	0 (0 0	0	0 0	0 0	1 0	0 0		2020/00/12 07:37	
07:57:	OA WETL ATACAN	C																		
	UU VSII CICSAA2	STR6	26 0.036	0.015 0.	041 0.0.	14 0	0	0 0	0 0	0 0	0	0 0	0	0 0	0 0	0	0 0	\sim	CICS Transaction CPU Time 🛛 🗐 🏹 🚇 🖉 🥥	↓□⊗
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07:57:	00 VSII CICSZA2 00 VSII CICSZA2 00 VSII CICSZA2	STR6 STR7 STR8	26 0.036 32 0.029 31 0.036	0.015 0.	041 0.0	14 0 15 0 18 0	0 0		0 0	0 0			0	0 0			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.02 -	CICS Transaction CPU Time	* 08
07:57: 07:57: 07:57:	00 VSII CICSZAZ 00 VSII CICSZAZ 00 VSII CICSZAZ 00 VSII CICSZAZ	STR6 STR7 STR8 STR9 ZIPC	26 0.036 32 0.029 31 0.036 25 0.037	0.015 0. 0.008 0. 0.012 0. 0.005 0.	041 0.0 043 0.0 048 0.0 065 0.02	14 0 15 0 18 0 24 0			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0 0 0 0 0 0 0 0	0.02 -	CICS Transaction CPU Time	₽ ∎⊗
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CICS Views





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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



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 VSE	Syster	n Perf	ormar	ice R	eport	- VN	l4 - Fr	'i 12 Ju	n 202	0 闻	
Add tab Arrar	Report	: ESAVSE	C V	SE Syste	em Perfo	ormance	Repor	t		Ve	locity	Software	Corporat
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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

