
The Supreme Court of Virginia Linux and System z – Bringing the Future to Justice



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Disclaimer

- The information and opinions found herein are for informational purposes only and not necessarily those of the Office of the Executive Secretary or the Supreme Court of Virginia and should not be considered an endorsement.



Agenda -

- Quick Overview of the Supreme Court of Virginia
- How we got to where we are today
- Where the OES is going in the future

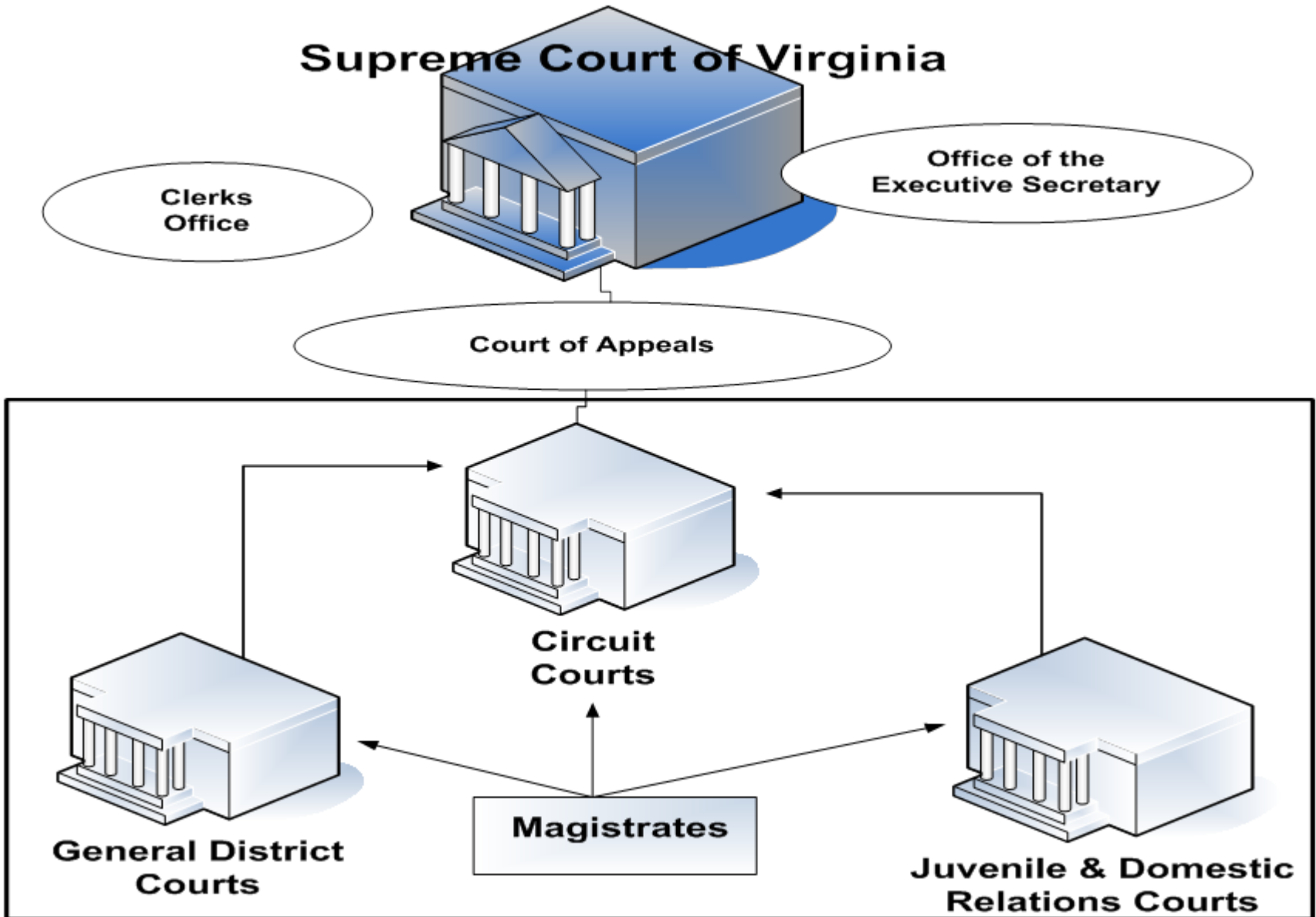


Mission Statement -

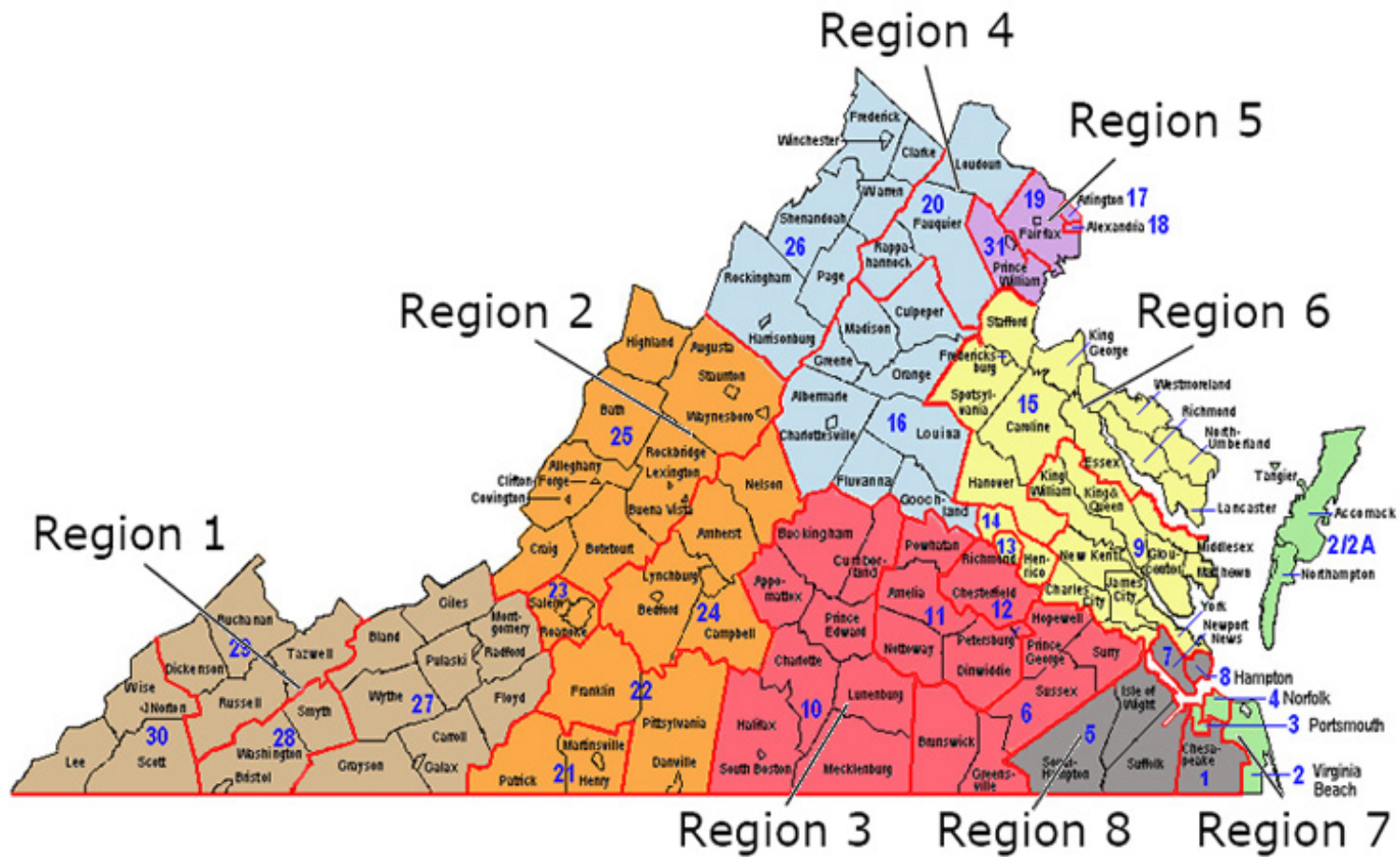
“ The Department of Judicial Information Technology’s mission is to support Virginia’s Judiciary by providing and maintaining reliable, effective, innovative and timely technology for the courts’ business processes.”



Supreme Court of Virginia



The Commonwealth of Virginia



The 'Supporting' Cast

- 2 – zVM/zVSE System Engineers
 - 3 – Database Administrators
- 1 – Production Control Specialist
- 2 – Linux Systems Administrators
 - 8 Cobol Developers (fte)
- 35+ Java Developers (contract)
 - 9 Operations (fte)



Case Management System (CMS)

- Supports 325 Courts with over 5000 internal and 3,500 external users
(3 Circuit courts are currently not using our CMS system)

2013 included 3.6 Million New Cases and 3.3 Million New Hearings

- **Circuit** - main application is driven by WebSphere (java)
Forms & Batch support still maintained in zVSE/CICS (Cobol)
- **J&DR** - WebSphere (8.5) application. Batch is supported by zVSE/CICS
- **General District** - running traditional zVSE/CICS application (currently in Java rewrite)
Financial Management System (FMS) – running in CICS
- **Supreme Court** - running traditional zVSE/CICS application
- **Court of Appeals** – recently converted to WebSphere



Other Applications supporting Case Management

- Records Management System (RMS) – Unix application
- Case Imaging System (CIS) – Unix application
- eMagistrate System (eMag)* 125 Offices/240 workstations
- *2007 ComputerWorld Honors Program Laureate

The eMagistrate System was our first venture (2004) into Linux under VM (2004). It is now a fully integrated WebSphere application complete with Video conferencing, State Police and other agency interfaces.

- Video Docketing Application (across all CMS apps)
- Conference Registration Application
- eLeave Application
- eFiling (VJEFS- Virginia Judicial Electronic Filing System)
 - Winner of the Governor's 2013 Commonwealth Technology Award
- eCollections (VJCS – Virginia Judicial Collections System)



Current Systems Environment

Courts Processor

zBC12 2828(M02)

2 CPs & 8 IFLs

2 z/VM 6.3 LPARS

240 GB memory

8 z/VSE 4.3 guests

2 z/VSE 5.2 guests

76 Linux guests

- SLES 10 SP2
- SLES 11 SP2
- WAS 6.1 (31-bit)
- WAS 7.x (64-bit)
- WAS 8.5.1 (64-bit)
- DB2 8.2 & 9.5
- Oracle 11G-r2

CJIS Processor

zBC12 2828(M01)

1 CP & 8 IFLs

2 z/VM 6.3 LPARS

240 GB memory

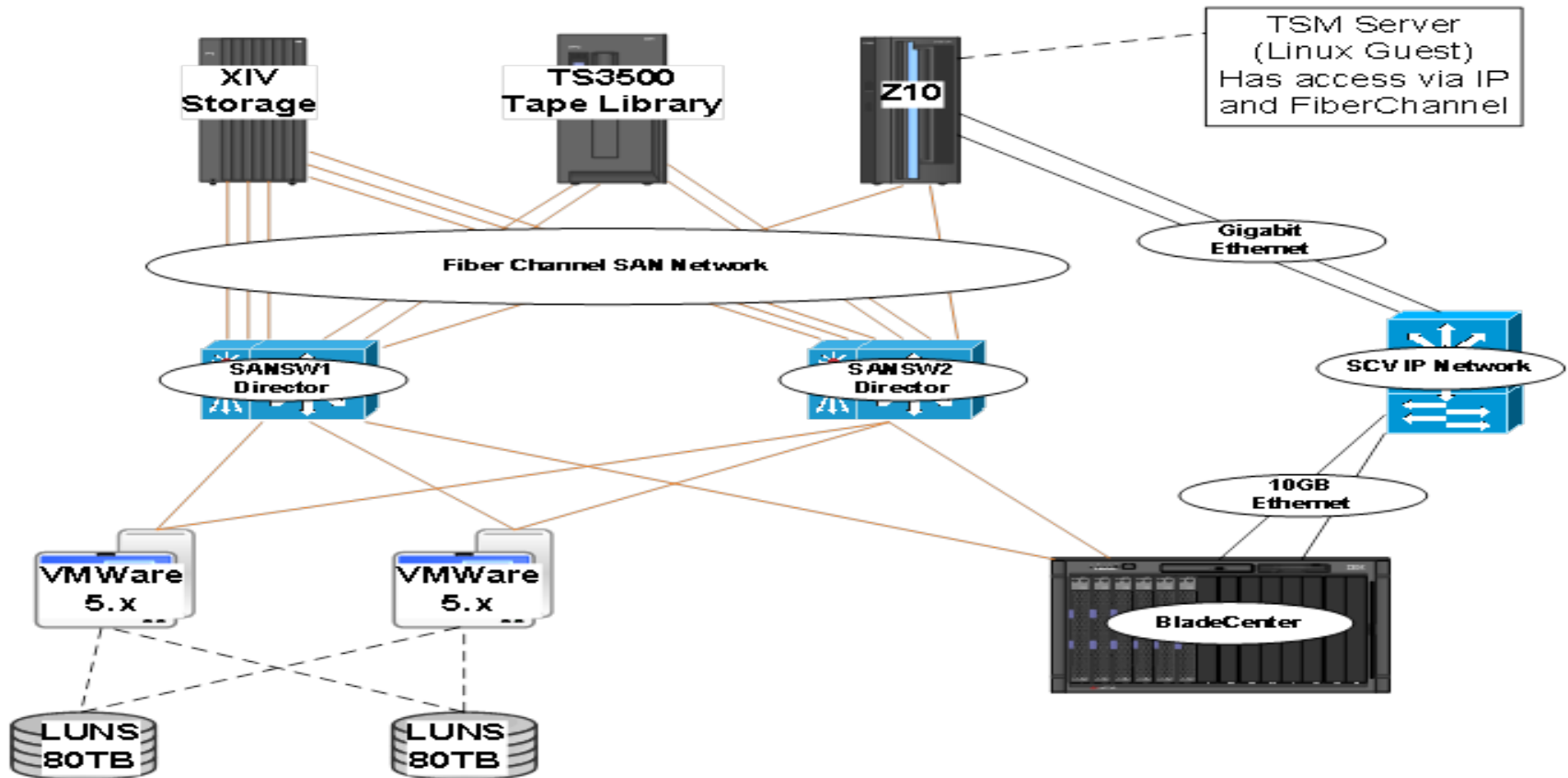
4 z/VSE 4.3 guests

80 Linux guests

- SLES 10 SP2
- SLES 11 SP2
- WAS 6.1 (31-bit)
- WAS 7.x (64-bit)
- WAS 8.5.1 (64-bit)
- DB2 8.2 & 9.5
- Oracle 11G-r2



Storage Network Architecture



OEM Applications

- Barnard Software, Inc. (TCP/IP)
- Velocity Software, Inc. (Performance Monitoring)
 - CSI International, Inc. (EPIC Tape)
- Computer Associates, Inc. (Hidro, TPX and EzTrieve)
 - MacKinney Systems, Inc. (ListCat Plus)
- ASG Software Solutions (ZEKE Job Scheduler)
- DBI Software Inc (DB2 Performance Analyzer)



Public Online Services

www.courts.state.va.us

- Internet access to District and Circuit Court records averages 373,000 searches per day
- Access to all standard Public-use Court forms for print (pdf) and submission
- Online payment of traffic and criminal offenses (currently District courts only)

Fiscal Year 2013 (ending June 2013) – 538,421 payments received totaling \$80,010,874.76

This represents 44% of payments received for all General District courts

- Circuit case post pay scheduled to come on line sometime July-Sept 2014



z/Linux - What Started it All

- Magistrate system was a PC-based standalone system deployed in 200+ locations (2003)
- Sneaker-net automation
- Limited information with no statewide availability
- Massive effort to incorporate statewide system updates, especially when laws impacting system went into effect.
- Brought on IBM contract services for needs review and recommendations.
 - Write the application in a current, serviceable language (suggested Java)
 - Use WebSphere Application server as apache/application base
 - Intel or Windows
 - (I later suggested Linux on the mainframe)
 - Use DB2 for the data repository



The Process

- Contractors brought in to write the application. Development environment consisted of pc's using RAD Developer and Intel servers running WebSphere and DB2
- Application worked out, but the cost of moving forward became a major discussion.

While they chatted.....

- Built a Linux guest on the existing 9672-rb6 (no IFL)
- Decided on SUSE/Linux (SLES 8)
 - quicker 'out of the box' deployment. Seemed better equipped to address mainframe
 - WebSphere 5.1 certified on SLES8
 - Novell support available (State contract)



The Decision

Linux on the Mainframe

- **Leveraging experience and knowledge of existing staff**
 - 25 years experience in IBM mainframe and hypervisor technologies
- **Scalability of the VM, Linux and the zSeries platforms**
- **Stability of mainframe hardware and operating systems**
- **Cost savings in licensing**
 - The control process mandated multiple servers to support development testing, demo/training and production
 - Licensing costs for one IFL equaled that of one Intel processor
 - Needing 6-8 Intel servers would increase costs 6-8 times over what the Linux/IFL solution provided.
- The admin and maintenance efforts to support the mainframe systems were estimated to be much less than the same efforts for multiple Intel boxes

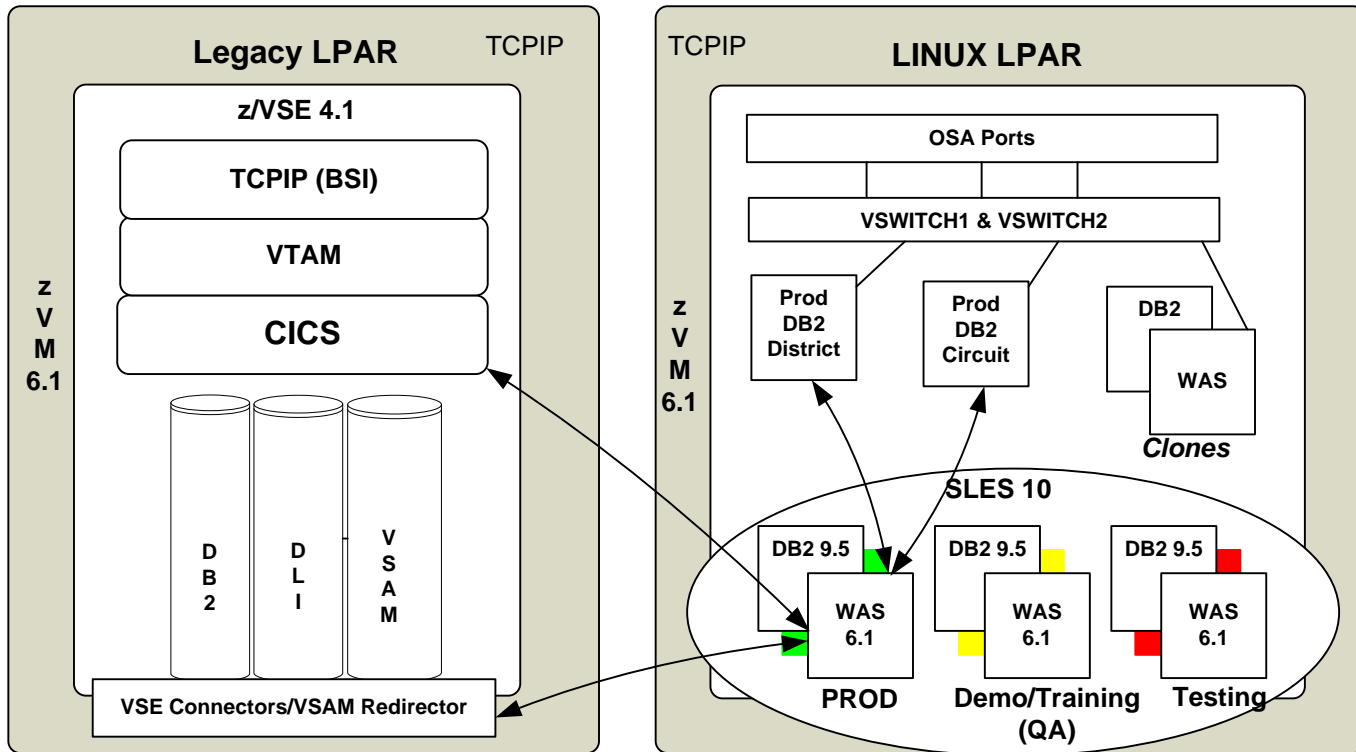


Initial Challenges

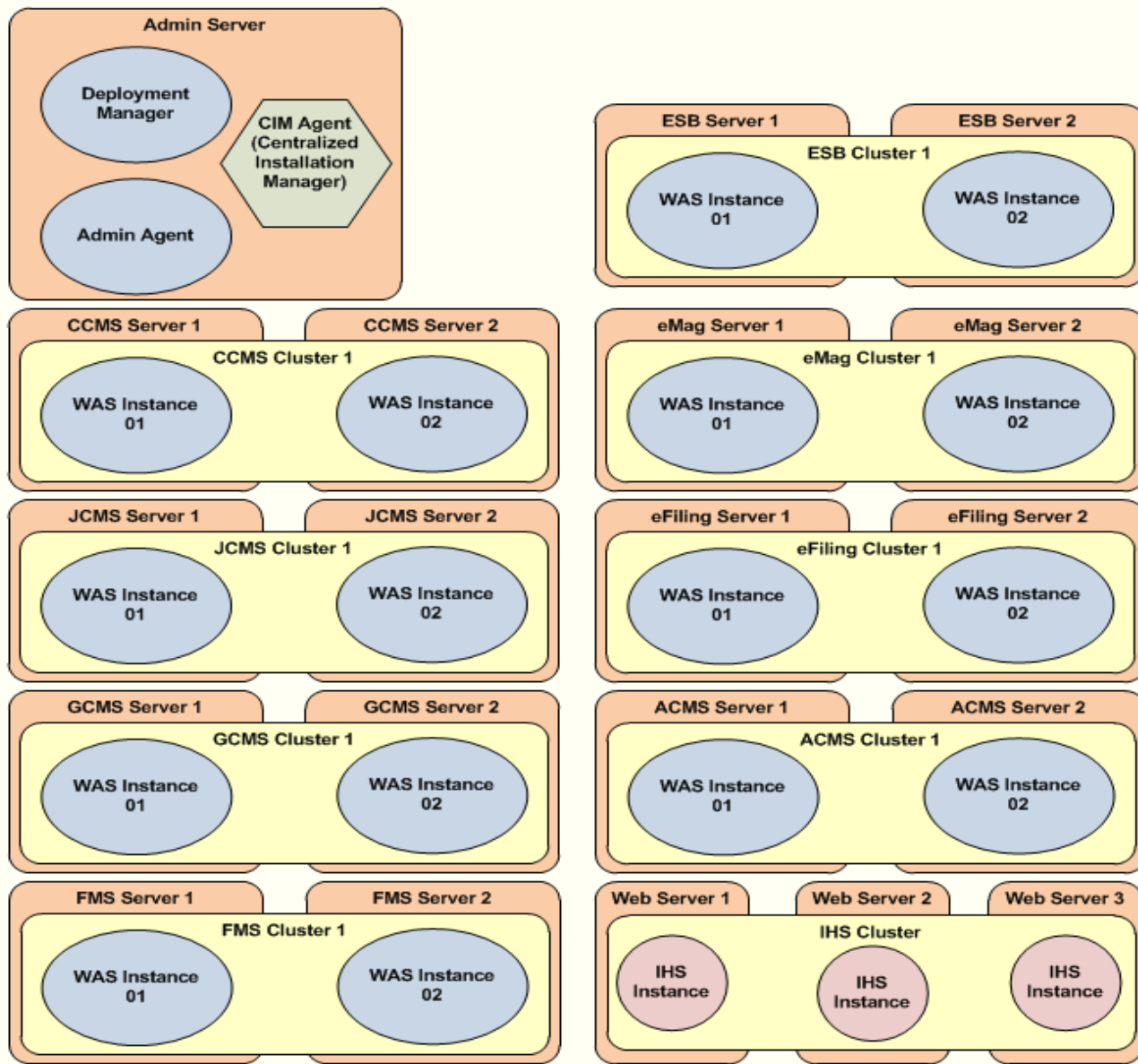
- Intel processes ran much (as in way) faster than the same workload on the 9672
 - Memory leaks in the SUSE 5.1 (mainframe) source did not help
- Continued battle between ‘mine runs faster’ vs ‘mine runs cheaper’
- Managed to get approval to upgrade the 9672 to z890 with 1 IFL
 - Upgraded WebSphere to 6.1
 - Upgraded to VM 6.1
- Better throughput speeds, still a bit slower, but still extremely more cost effective in both hard and soft dollars.



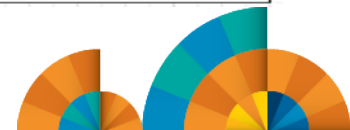
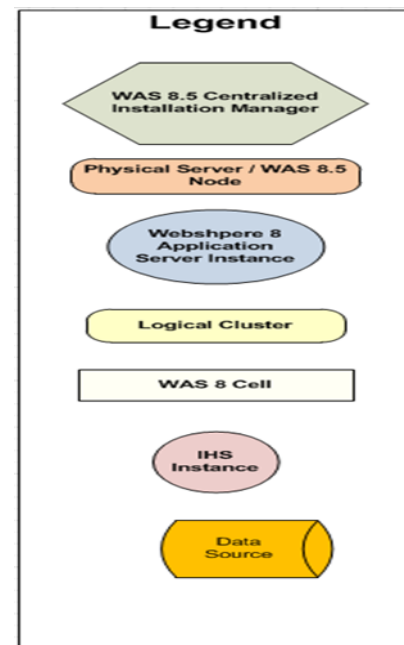
Simple in the beginning.....

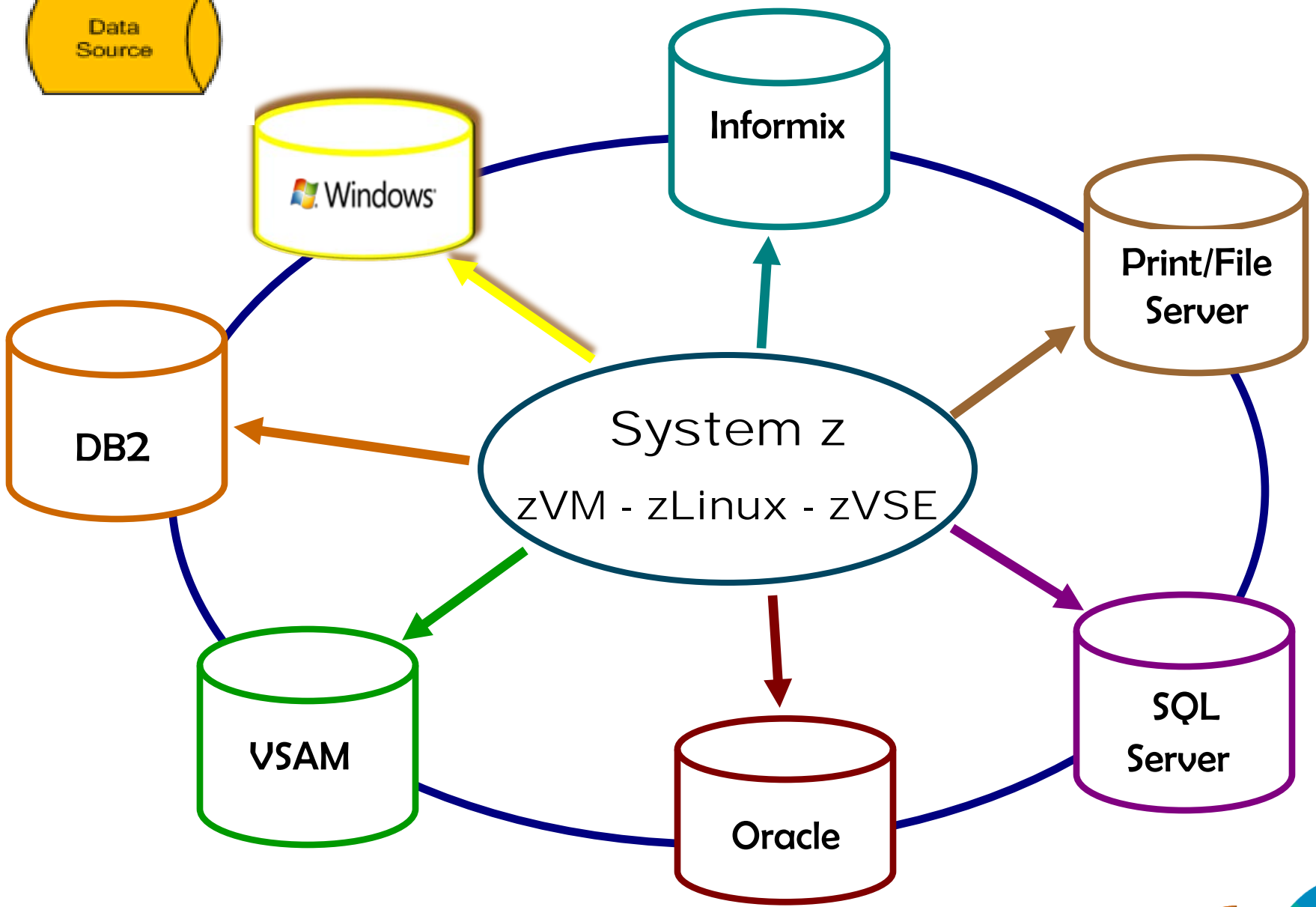


Production Cell



Not so much now.....





From this.....


```

U                CRIMINAL CASE INQUIRY/UPDATE                CCMSP122
                                                           900CR
CASE CR00000169-02   FILED 081005   COMM BY REIN   LOC COMMONWEALTH OF VA
DC DATE 050199 CSE _____-00 TRAF (Y/N) N DMV N JUDGE JMB   CO-DEF N
                        SSN                DOB        RACE SEX  ST  SN
DEF  HAGENS, CURTIS LYNCH      123 - 45 - 6789  02131950   W   M   C   _____
R-ADDR 101 E. CANAL ST.                RICHMOND, VA 23219                JUR _____
M-ADDR _____
AKA _____                AKA _____
OL 123456789                OL ST VA TAG _____ CMV N HAZMAT N CDL _
DEF ATTY _____                ATTY TYPE N ADD ATTY IND N
COMMONWEALTH ATTY EDC   AGENCY _____
      CHARGE                CODE SECTION      MD B FM C OFF DT ARRESTD DOC #
PROBATION VIOLATION      19.2-306          _ _ M _ 081005 081005 _____
VCC _____ OTN _____
BAIL: TYP _____ AMT _____ PD _ DT 000000 SURETY _____
REMARKS _____

                - HEARINGS -                JR
NBR  DATE    TIME    TYPE    DURATION    JUDG  CTRM  PLEA  J  RSLT
01   081505  0900AM  SC      _M _H _D    JMB   _____ _ _ _
02   070108  0900AM  SENR    _M _H _D    _____ _ _ _ N SENT
R=DIVISION MENU                PRODUCE SUMMARY SHEET _
N=NEXT CASE          U=CASE INQ/UPD          E=CASE ENTRY          S=HEAR SEARCH
X=NAME INDEX        H=H/D INQ/UPD        K=CD CITE          D=DISPLAY PREVIOUS PERSONAL DATA
  
```



To this.....



Circuit Case Management System

Welcome ProdTestLName,ProdTestFName (900C TRAINING COURT- Home)

[? Help](#) [Logout](#)

Current Court:

Divisions	Search	Mass Options
<ul style="list-style-type: none">▪ Criminal <i>Quick Entry</i>▪ Civil▪ Juvenile Appeal Criminal <i>Quick Entry</i>▪ Juvenile Appeal Civil▪ Adoption▪ Miscellaneous Activity▪ Sealed Indictments <i>Quick Entry</i>	<ul style="list-style-type: none">▪ Name▪ Case Number▪ Service▪ Hearing Date▪ Disposition Date▪ File Date▪ Appeal Date▪ E-File Date	<ul style="list-style-type: none">▪ Case Judge▪ Criminal Attorney▪ Hearing▪ Pleadings/Orders▪ Report/Order Tracking▪ Service Entry▪ Service Update
Tools	Administration	Reports
<ul style="list-style-type: none">▪ Interactive Docket▪ Term Docket▪ Master Calendar▪ Caseload Statistics▪ DMV Abstracts▪ State Police	<ul style="list-style-type: none">▪ Court Reference Record▪ Court Profile▪ User Profile▪ Case Delete▪ E-Filed Case Conversion	

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Build Number: 3.1.3.56

Primary CCMS Window





Circuit Case Management System

Welcome ProdTestLName,ProdTestFName (900C TRAINING COURT- Search)

Divisions | Search | Mass Options | Tools | Administration | [Home](#) | [Help](#) | [Logout](#)

* Required field

Search

* Search Type: * Division: Cases: Active Inactive Both

Name:

Syntax: lastname, firstname **Example:** Smith, John

Syntax: partial_lastname **Example:** Smi

<input type="checkbox"/>	Case #	Party Name	Name	Judgment	Concluded By
<input type="checkbox"/>	CL10000006-00 D	TEST, DEFENDANT	TEST, PALMER	---	---
<input type="checkbox"/>	CL10000014-00 P	TEST, ONE	JESUS, RAUL	---	---
<input type="checkbox"/>	CL10000006-00 P	TEST, PALMER	TEST, DEFENDANT	---	---
<input type="checkbox"/>	CL10000017-00 P	TEST, TEST	SMITH, R	---	---
<input type="checkbox"/>	CL11000013-00 P	TEST, TEST	ME, JO	---	---
<input type="checkbox"/>	CL12000065-00 D	TEST, TESTING	TESTING, TEST	---	---
<input type="checkbox"/>	CL12000066-00 D	TESTING, SMOKE	SMOKE, TESTING	---	---
<input type="checkbox"/>	CL12000065-00 P	TESTING, TEST	TEST, TESTING	---	---
<input type="checkbox"/>	CL12000070-00 P	TESTING, TEST	BOND, JAMES	---	---
<input type="checkbox"/>	CL12000033-00 D	THE BEST PLUG	GRIMSTAD, LUCIUS	O	DIS

Other Options:



Circuit Case Management System

Welcome ProdTestLName,ProdTestFName (900C TRAINING COURT- Civil)

Divisions | Search | Mass Options | Tools | Administration | Reports

Home | Help | Logout

* Required field

CL | 12000066-00 | I | U

SMOKE, TESTING v.
TESTING, SMOKE

Search Results | Previous | Next

Case / Party Update	Services	Pleadings/Orders	Report/Order Tracking	Companion	Protective Order				
Case	Plaintiff	Defendant	Hearing/Disposition	Remarks	Summary				
CASE INFO:	Filed Date: 03/12/2013	Filing Type: PROT	Comm By: INIT	Filing Fee Paid:					
Judge:	Bond Amount: \$10,000.00	Complex Case:	Mediation Type:	Mediation Date:					
PLAINTIFFS (1)	Trading As		Attorney Name	(ADD ATT: N)					
1 SMOKE, TESTING			LENNON, JOHN						
DEFENDANTS (1)	Trading As		Attorney Name	(ADD ATT: N)					
1 TESTING, SMOKE			KARL, MARX						
HEARING INFO:	Jury Requested:								
#	Date	Time	Hearing Type	Judge	Courtroom	Party	Jury Impaneled	Result	Duration(Minutes:Hours:Days)
1	03/29/2013	10:00 AM	AMEN	XYZ	5				M H D
DISPOSITION INFO:	Judgment:	Final Order Date:	Concluded By:	Contested Case:					
Ended #:	Appeal Date:								
REMARKS INFO :									
Print Case Summary			Print Public Case Summary						

Save | Cancel | New Case | Next Case Plaintiff | Next Case Defendant



Challenges then, now and beyond.....

- Various versions of WebSphere, DB2, z/VM, z/Linux, zVSE etc etc.
- Maintaining consistencies with base code, updates and patches (internal and external)
- Supporting several single node and complex clusters through project lifecycles
- User demand for more complex application integration (like eFiling)
- Continued requests to multiply, thrive, flourish, boom, increase, bloom, burgeon, grow, mushroom.....
- zVM/zVSE environment support structure is sound.....

How are we handling the continuing Linux Proliferation challenge?



Application Challenges

- Legislative changes required
- Political climate
- Interfaces with other applications and agencies
- Payment processing (existing and future opportunities)
- Response time for requests to update environments (including desktop apps)
- Development silos
- Legacy-centric full-time staff versus contract java developers
- Responding to User change requests
(enhancements, defects, BYOD, Data access, etc)



System Platform Challenges

- Hardware limits versus growth (and cost)
- Maintaining expertise i.e. Linux admins, VM/VSE System Programmers, application programmers, etc.
- Developing expertise in project management (Top down)
- Continuity between platforms and environments especially during hardware or software migrations
- Full regression testing requirements to support browser layers
- We continue to work on organized planning and communication.....



Planning and Coordination Disciplines

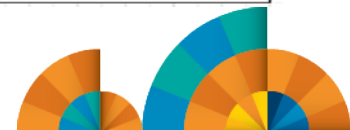
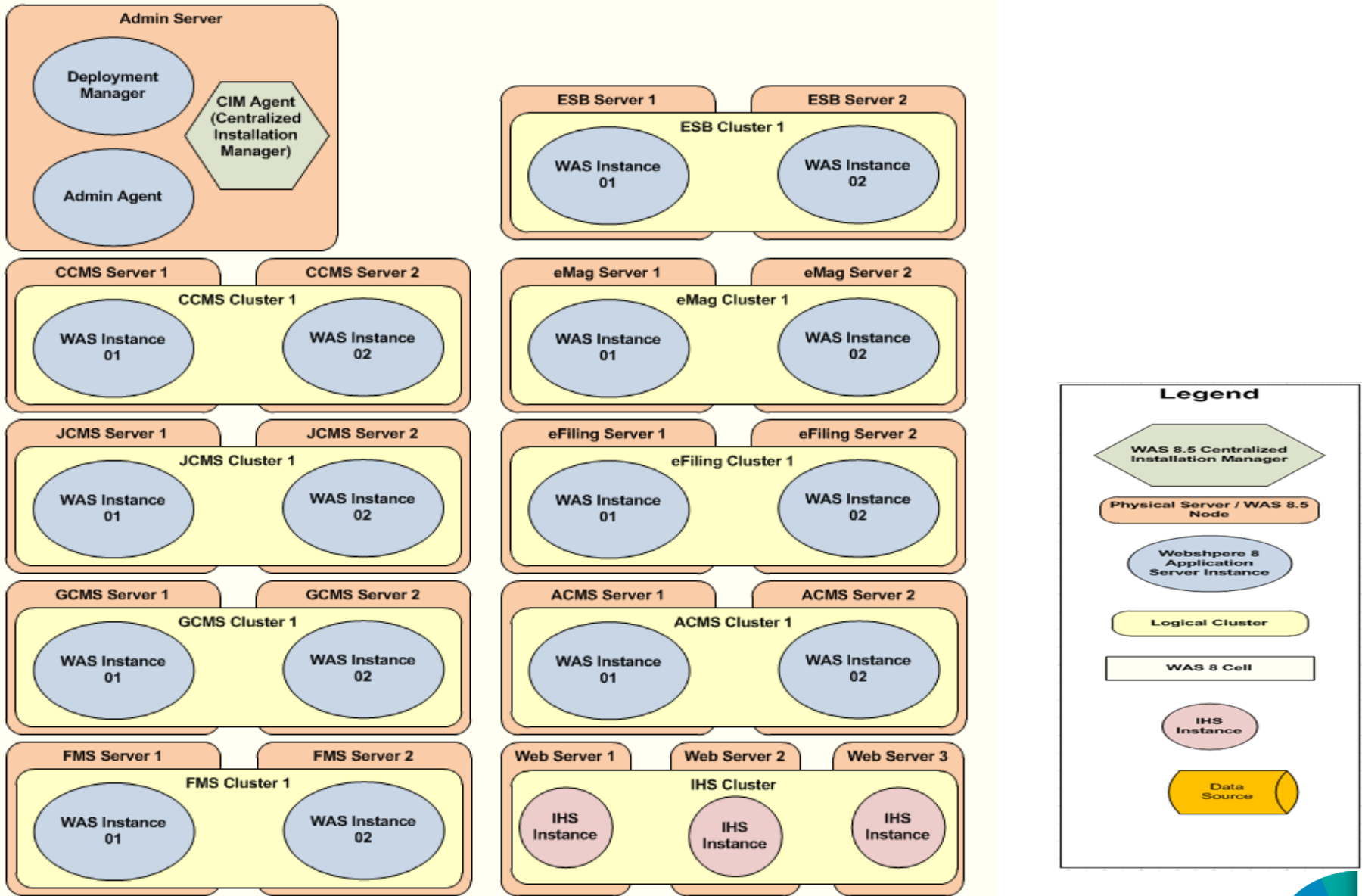


Doing more with less.....

- Certified 'clones' for ND, Application and Apache(web) servers
*'if you always do what you always did,
you will always get what you always got....'*
- Utilize jython scripting for standard customization of clusters, datasets and WebSphere settings
- TADDM assists with change awareness and documentation
- Solid backup and recovery infrastructure using Hidro and TSM
- Building on Project Management Office (PMO)
- Rational Software Architect for WebSphere
- Rational Application Developer
 - Utilizing TortoiseSVN as a code repository
- Maximizing benefit from Performance Monitor (Velocity)
- Leverage JXBrowser technology to eliminate redundant browser compatibility issues



Production Cell



WebSphere Application Server Network Deployment

- Welcome
- Guided Activities
- Servers
- Applications
 - All applications
 - New Application
 - Install New Middleware Application
 - Application Types
 - WebSphere enterprise applications
 - Business-level applications
 - Assets
 - Edition Control Center
 - Global deployment settings
- Jobs
- Services
- Resources
- Runtime Operations
- Security
- Operational policies
- Environment
- System administration
- Users and Groups
- Monitoring and Tuning
- Troubleshooting
- Service integration
- UDDI

Select	Name	Application Status
You can administer the following resources:		
<input type="checkbox"/>	CipEAR3.1.0.15	➔
<input type="checkbox"/>	CisClientEAR_2.0.1.1	➔
<input type="checkbox"/>	DefaultApplication	⊘
<input type="checkbox"/>	DigitalSignatureBridgeEAR_1.1.0.1	➔
<input type="checkbox"/>	EfilingEar1.2.1.11	➔
<input type="checkbox"/>	ExtUserManagementEar1.0.0.21	➔
<input type="checkbox"/>	FmsEAR.3.3.2.122	➔
<input type="checkbox"/>	FormsEAR3.2.1.1	➔
<input type="checkbox"/>	HDFinanceEAR2.0.0.5	➔
<input type="checkbox"/>	IdmSoaBridgeEar1.2.0.4	➔
<input type="checkbox"/>	JBatchEAR2.0.3	➔
<input type="checkbox"/>	JdrEar3.2.1.20	➔
<input type="checkbox"/>	OAI3.0.0.3	➔
<input type="checkbox"/>	PaymentGatewayEAR1.1.0.11	➔
<input type="checkbox"/>	SchedulerEar1.0.0.2	➔
<input type="checkbox"/>	ServicesTestProjEar	➔
<input type="checkbox"/>	VsbSoaServiceEar1.1.0.2	➔
<input type="checkbox"/>	asyncLoggerEar1.0.0.2	➔
<input type="checkbox"/>	circuitEAR3.1.3.56	➔



WebSphere Application Clusters –

WebSphere application server clusters






WebSphere application server clusters

Use this page to change the configuration settings for a cluster. A server cluster consists of a group of application routed to other members of the cluster. Learn more about this task in a [guided activity](#). A guided activity provides topic.

+ Preferences

New... Delete Start Stop Ripplestart ImmediateStop



Select	Name 	Status 
You can administer the following resources:		
<input type="checkbox"/>	pasCluster01	
<input type="checkbox"/>	pasalogCluster01	
<input type="checkbox"/>	pasccmsCluster01	
<input type="checkbox"/>	pasefilCluster01	
<input type="checkbox"/>	pasfmsCluster01	
<input type="checkbox"/>	pasmiscCluster01	
<input type="checkbox"/>	pmsCluster01	



WebSphere Application Servers –

Flexibility in controlling nodes, run weights, start up priorities etc

Application servers

Application servers

Use this page to view a list of the application servers in your environment and the status of each of these servers. You can also use this page to change the status application server.

+ Preferences

New... Delete Templates... Start Stop Restart ImmediateStop Terminate

Select	Name	Node	Host Name	Version	Cluster Name	Status
You can administer the following resources:						
<input type="checkbox"/>	pasServer01	pas1Node01	pasjcms1	ND 8.5.0.0	pasCluster01	
<input type="checkbox"/>	pasServer02	pas2Node01	pasjcms2	ND 8.5.0.0	pasCluster01	
<input type="checkbox"/>	pasServer03	pasjcms3Node01	pasjcms3	ND 8.5.0.0	pasCluster01	
<input type="checkbox"/>	pasalogServer01	pasalog1Node01	pasalog1	ND 8.5.0.0	pasalogCluster01	
<input type="checkbox"/>	pasalogServer02	pasalog2Node01	pasalog2	ND 8.5.0.0	pasalogCluster01	
<input type="checkbox"/>	pascrmsServer01	pascrms1Node01	pascrms1	ND 8.5.0.0	pascrmsCluster01	
<input type="checkbox"/>	pascrmsServer02	pascrms2Node01	pascrms2	ND 8.5.0.0	pascrmsCluster01	
<input type="checkbox"/>	pascrmsServer03	pascrms3Node01	pascrms3	ND 8.5.0.0	pascrmsCluster01	
<input type="checkbox"/>	pascip1	pascip1Node01	pascip1	ND 8.5.0.0		
<input type="checkbox"/>	pasefilServer01	pasefil1Node01	pasefil1	ND 8.5.0.0	pasefilCluster01	
<input type="checkbox"/>	pasefilServer02	pasefil2Node01	pasefil2	ND 8.5.0.0	pasefilCluster01	



Tivoli Application Dependency Discovery Manager (TADDM)

172.19.182.11 - Tivoli Application Dependency Discovery Manager - Windows Internet Explorer

http://172.19.182.11:9430/cdm/logon.do

Tivoli. Application Dependency Discovery Manager IBM.

File Edit Display Discovery Topology Analytics Administration Help

Discovery
Topology
Analytics

Component Comparison
Change History
Custom Query
Inventory Summary

Administration

Discovered Components

Cart Actions

Filter...

Custom Queries
Groups
Inventory Summary

Page 1 of 1

Username: administrator Server: iptaddm1

Inventory Summary

Showing all components

Inventory

Component Type	Inventory Detail
App Servers (53)	Manually-added Application Server (2) WebSphere (30) WebSphere Cell (4) WebSphere Node (17)
Clusters (4)	WebSphere Cluster (4)
Computer Systems (131)	Linux (70) LPAR (2) Z-Series (2) ZVMGuest (57)
Custom Servers (150)	Custom Application Servers (142) Custom Web Servers (8)
Database Servers (10)	DB2 (10)
Groups (0)	
Messaging Servers (0)	
Network Elements (5)	IP Subnet (5)
Other Servers (0)	

Details

click show details to view data

There are no details to display.



TADDM - WebSphere Component Comparison

The screenshot displays the Tivoli Application Dependency Discovery Manager (TADDM) web interface. The browser window title is "172.19.182.11 - Tivoli Application Dependency Discovery Manager - Windows Internet Explorer". The address bar shows "http://172.19.182.11:9430/cdm/logon.do#". The main header is "Tivoli Application Dependency Discovery Manager" with the IBM logo. The navigation menu includes "File", "Edit", "Display", "Discovery", "Topology", "Analytics", "Administration", and "Help". The left sidebar shows a tree view with "Discovery", "Topology", and "Analytics" expanded, with "Component Comparison" selected. The main content area is titled "Component Comparison" and has two tabs: "Component Comparison" (active) and "Results". Under "Component Comparison", there is a "Version:" dropdown set to "Current". Below this is an "Available:" list with a "Filter..." input field. The list contains four items, each with a checkbox and a gear icon: "pad1Cell01:pad1.courts.state.va.us", "uad1Cell01:uad1.courts.state.va.us", "wasNode01Cell:iqwsc1.courts.state.va.us", and "wasNode01Cell:iqwsc2.courts.state.va.us". To the right of the "Available:" list are "Add >>" and "<< Remove" buttons. The "Included:" section on the right shows "Version 0 - Current" with two checked items: "wasNode01Cell:iqwsc1.courts.state.va.us" and "wasNode01Cell:iqwsc2.courts.state.va.us".



TADDM – Discover run against the security.xml file from one WebSphere App Server to another...

The screenshot shows the Tivoli Application Dependency Discovery Manager (TADDM) interface. The left sidebar contains navigation options: Discovery, Topology, Analytics, and Administration. Under Analytics, 'Component Comparison' is selected. The main area displays a 'Component Comparison' table with two tabs: 'Component Comparison' and 'Results'. The table lists various components and their properties, comparing them between two nodes: 'wasNode01Cell:iqwscc1' and 'wasNode01Cell:iqwscc2'. The 'security.xml' file is highlighted in blue in the original image.

#	wasNode01Cell:iqwscc1	wasNode01Cell:iqwscc2
Virtual Hosts		
2809:admin_host		
Configured Connections		
2809:admin_host:172.19.82.24:9060	2809:admin_host:172.19.82.24:9060	
wasNode01Cell:iqwscc2.courts.state.va.us:admin_host:172.19.82.22:9060	[Not Set]	
wasNode01Cell:iqwscc2.courts.state.va.us:admin_host:172.19.82.22:9043	[Not Set]	
2809:admin_host:172.19.82.24:9043	2809:admin_host:172.19.82.24:9043	
Label	wasNode01Cell:iqwscc1.	
Config Contents		
/opt/IBM/WebSphere/AppServer/profiles/AppSrv01/config/cells/wasNode01Cell/virtualhosts.xml		
Size	26659	
Checksum	3044964214	
Last Modified	8/11/09 16:07 EST	
/opt/IBM/WebSphere/AppServer/profiles/AppSrv01/config/cells/wasNode01Cell/security.xml		
Checksum	4246641150	
Last Modified	1/18/12 09:14 EST	
/opt/IBM/WebSphere/AppServer/profiles/AppSrv01/config/cells/wasNode01Cell/fileRegistry.xml		
Checksum	2851287187	
Last Modified	12/22/08 15:58 EST	



Rational System Architecture for WebSphere

Modeling - Oes Java Model/Deployment Model.emx - Rational® Software Architect for WebSphere Software

File Edit Navigate Search Project Run Modeling Window Help

Model

Project Explorer

- BatchJobs
- Common
- Environments
 - LoadTest
 - PRD
 - Associations
 - Databases
 - CIRCJIS1
 - CIRCJIS3
 - CIRPROD1
 - CIRPROD3
 - COURTS
 - EFIPROD1
 - FMS_CJIS
 - FMS_PROD1
 - FMS_PROD2
 - FMS_PROD3
 - FORMS
 - GD_CJIS (DOS1)
 - GD_CJIS (DOS2)
 - GD_CJIS (DOS3)
 - JDRPROD1
 - JDRPROD2
 - JDRPROD3
 - JMSPROD1
 - LOGPROD1
 - PAYPROD1
 - SCV_PUBQ
 - SEC2
 - VSBPROD1
 - epdbcc1
 - epdbcc3
 - epdbfms1
 - epdbgd1
 - epdbgd2
 - epdbgd3
 - ipdbCc1
 - ipdbCc3
 - ipdbEfi1

Deployment Model.emx

Alerts and Action Items

There are no problems associated with this model.

General Information

This section describes general information about this model.

Name: Deployment Model
 Location: C:\svnviews\OesJavaModel\Deployment Model.emx
 Size: 1,230,730 bytes
 Last modified: September 24, 2013 2:39:40 PM
 Editable: true

Documentation

This section lists the documentation for this model.

Overview Details Diagrams References Fragments

Properties

<Artifact> Deployment Model::Environments::PRD::Databases::FMS_PROD

Service
 General
 Stereotypes
 Documentation
 Constraints

Relationships originating from this element:

Name	Type	Other Related Element(s)

Add... Delete Navigate

Relationships targeting this element:

Name	Type	Other Related Element(s)
(FMS_PROD1)	<Usage>	FASEar
(FMS_PROD1)	<Deployment>	ipdbFms1

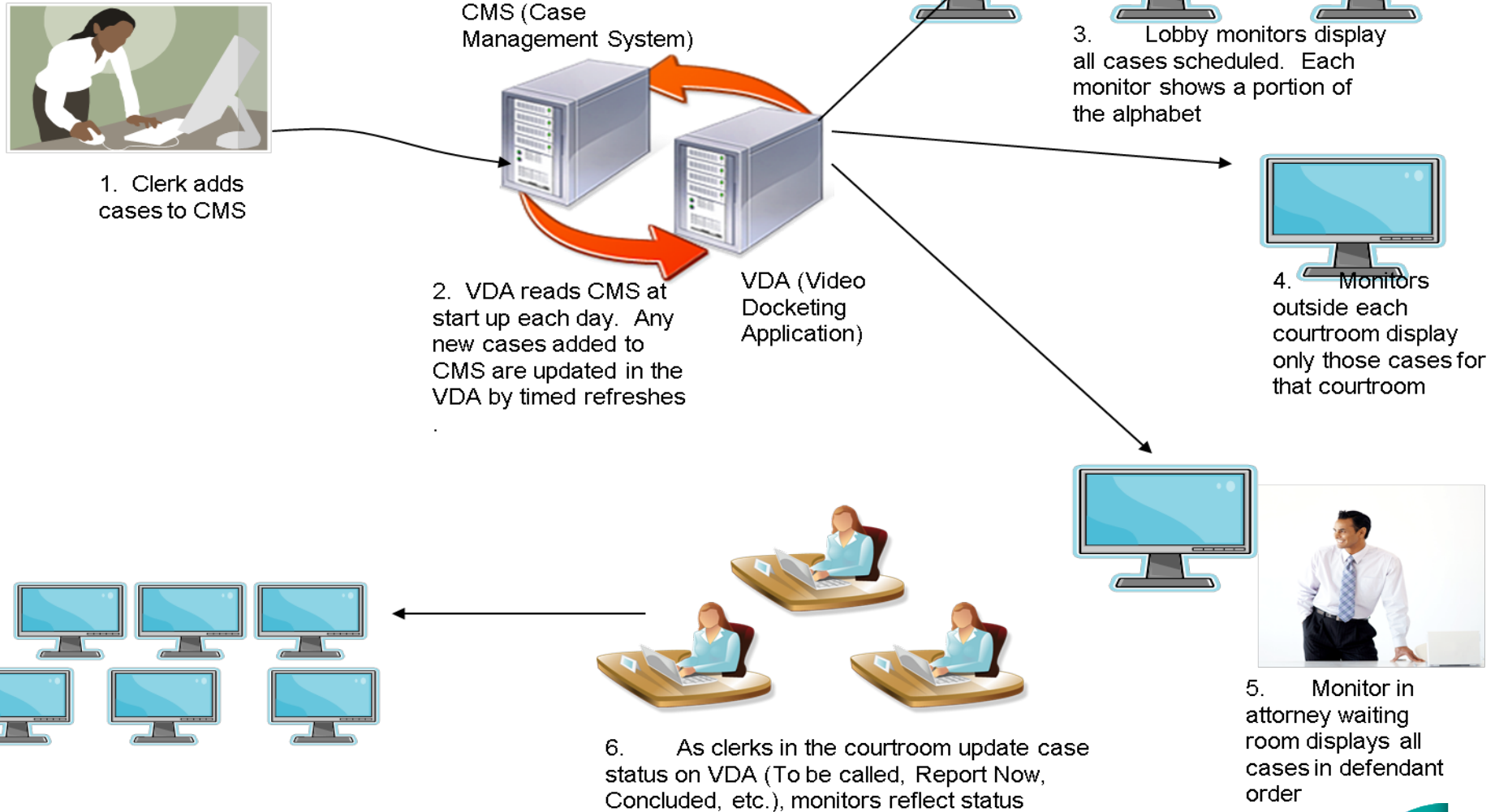
Applications running in Linux on System z
play very nice with others.....

Some examples of current System z applications
running in concert with other environments.....



Application Integration using zLinux and System z

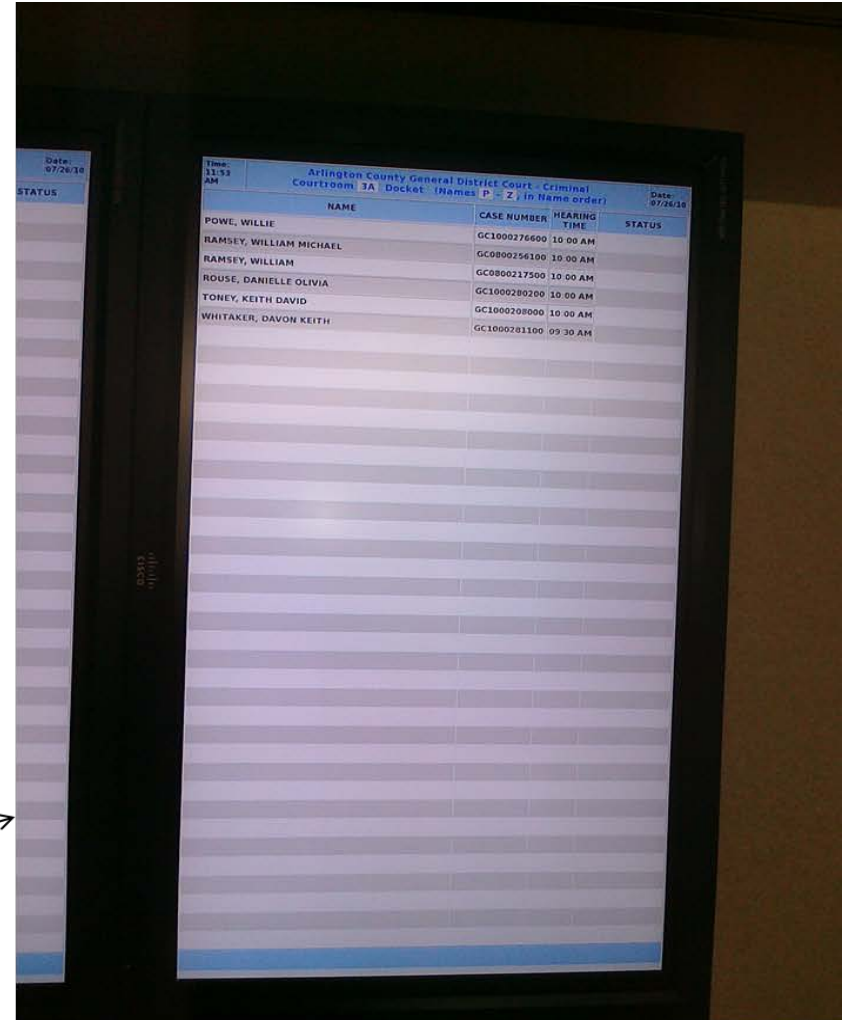
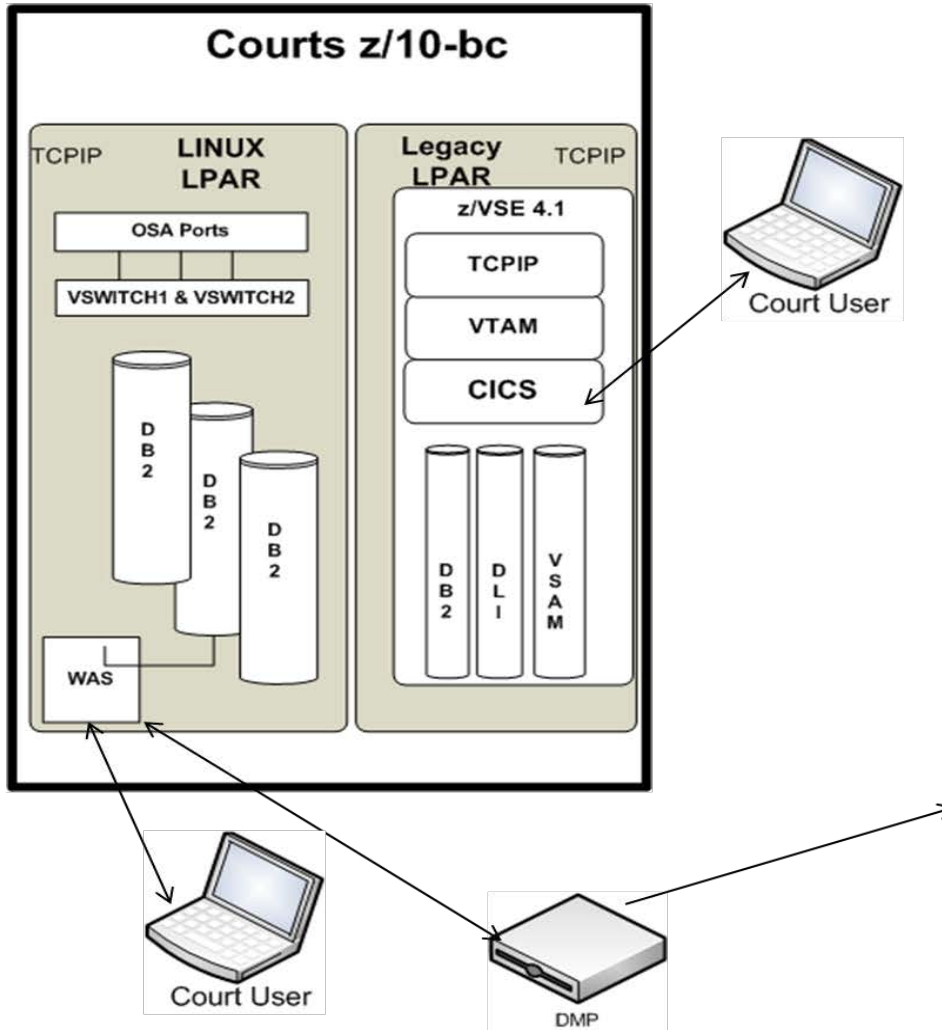
Overview of Video Docketing Application (VDA)



Video Docketing Application –



Video Docket –



Judicial Conference Online Registration System



Department of Educational Services
Supreme Court of Virginia

Judicial Conference of Virginia For District Court Judges
THE CAVALIER HOTEL
VIRGINIA BEACH
August 8-10, 2010

>> [Previous Page](#) | [Registration Page](#) | [Cancel Registration](#)

Online Registration System

* Indicates required field

Registration Details

*Select Attendee Type: OES

*Select Attendee: -- Not Applicable --

Attendee Details

*First Name	*Last Name	*Badge Name	Email	Phone	Title
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> xxx-xxx-xxxx	<input type="text"/>

*Spouse Details

Spouse will attend.
 Spouse will not attend.

*Spouse First Name	*Spouse Last Name	*Spouse Badge Name	*Location
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

*Hotel Details

I do not need a room reservation.
 I have made/will make my room reservation for room(s).
Reminder: You need to make your own hotel reservations. Please note that a credit card will be required.
Room Preferences:
 Cavalier on the Hill Cavalier on the Ocean





























Computer Training Classes

Once again, computer training will be offered during the conference. Based on the responses that are received, we will conduct training on Sunday afternoon and possibly Tuesday afternoon. If you would like to participate, please select the two courses that interest you most. An assignment schedule will be sent via email prior to the conference.

- Basic E-Mail (Supreme Court Lotus Notes System)
- Advanced E-Mail (Supreme Court Lotus Notes System)
- Effective Use of the Internet/Overview of the Court Intranet Site
- Legal Research I (Lexis Nexis)
- Legal Research II (Lexis Nexis)



WebSphere application (System z) accessing Oracle database (running on HP) with interaction with Active Directory running in a Windows Server environment

Conference Management Console			
Conference Name	Description	Message If needed to be Stopped	Manage
   TEST - Judicial Conference of Virginia Course : CCTST Session # : 0001 Status : started Start Date : March 01, 2008 End Date : March 01, 2011	Course : CCTST Session # : 0001 Status : started Start Date : March 01, 2008 End Date : March 01, 2011	This is a Test Conference... It would not be available in production.	 Refresh Data  Edit Conference  Delete Conference  Stop Conference
   Virginia Circuit Court Clerks Conference Course : CCLKCF Session # : 0001 Status : started Start Date : June 08, 2009 End Date : June 09, 2009	Course : CCLKCF Session # : 0001 Status : started Start Date : June 08, 2009 End Date : June 09, 2009	Put a message if you want to stop/pause the conference	 Refresh Data  Edit Conference  Delete Conference  Stop Conference
   Judicial Conference of Virginia Course : CCJMCF Session # : 0002 Status : started Start Date : May 11, 2009 End Date : [No Title] 3, 2009	Course : CCJMCF Session # : 0002 Status : started Start Date : May 11, 2009 End Date : [No Title] 3, 2009	Put a message if you want to stop/pause the conference	 Refresh Data  Edit Conference  Delete Conference  Stop Conference
   District Judges Voluntary Conference Location Course : DCJVCF Session # : 0002 Status : started Start Date : April 21, 2010 End Date :	Course : DCJVCF Session # : 0002 Status : started Start Date : April 21, 2010 End Date :	Put a message if you want to stop/pause the conference	 Refresh Data  Edit Conference  Delete Conference  Stop Conference



Human Resources eLeave Application



eLeave
Human Resources

Welcome

OESINET

| Forms

| User's Guide

| Quick Reference

| FAQs

| Logout



Roles

Leave Approval

Mass Leave Entry & Approval

Balances Inquiry

Approved Leave - Deletions

	View Selected	Description
	Supervising Authority	<p>For employees that report to you:</p> <ul style="list-style-type: none">• Approve/Deny leave• Inquire on summary balances and detailed leave transactions• Enter and approve mass leave entries• Update leave entries that have been submitted for approval• View Calendar 
	<u>Employee</u>	<ul style="list-style-type: none">• Inquire on summary balances and detailed leave transactions• Enter leave• Submit leave for approval• Update leave entries that have not been submitted for approval



What's Next?

- Continue to exploit WebSphere 8.5 in clustering environment\
- Migrate DB2 databases to latest supported version (10.x)
- Complete zVSE 5.2 migration
- Continue the eFiling implementation with added feature and functionality
- Bring General District and Financial applications online for user checkout and eventual production deployment
- Expand use of Message Broker/ Service Bus
 - Expand BYOD services for all application stacks
 - Rebuild portal services for internal and service unit integrations
- Continue to learn and share from peers (like you!) in an effort to provide the Commonwealth of Virginia the best possible Judicial system available



In conclusion

- Maximize the application products purchased
- Maximize the support offered by your software maintenance arrangements
- Take advantage of the social environments i.e. listservs, linkedin groups etc
- Develop and enforce standards relative to provisioning, change control, implementation etc.
- Don't be afraid to try.....



Questions, comments, suggestions.....complaints ?????



Thank you for allowing me to share the SCV's successful exploits of
z/VM, z/Linux and z/VSE



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