

Migración a SWL y los Servicios Telemáticos.



**Autores: Ing. Pablo Soria Acosta.
Ing. Yadiel Pérez Villazón.
Ing. Reidel Castillo Arbelo.
Ing. Alexander Perez Tase.
Ing. Jorge Luis Roque Alvarez.**



Migración



Experiencias

1) TELEMAR

2) CECAM

3) Escuela del PCC

4) ECOA 24

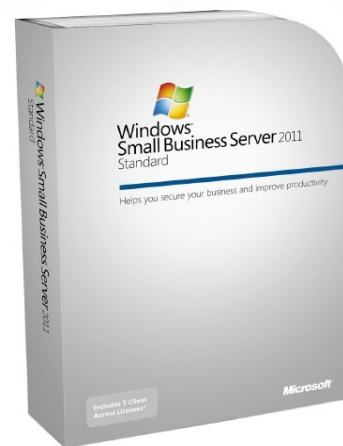
5) AICROS



PYMES



Herramientas de administración

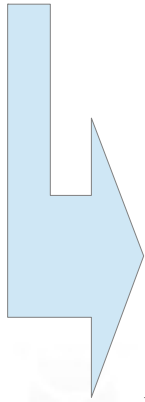


	Windows Business	Small Server	Webmin	YaST	Zentyal
Sistema Operativo	Windows		GNU/Linux	openSUSE	Ubuntu
Licencia	CAL		BSD	GPL	GPL
Facilidad de uso	Alta		Baja	Media	Alta
Modo de ejecución	Local		Local	Local	Local
Funcionalidades	Alta		Alta	Media	Media
Seguridad	Baja		Media	Alta	Alta
Migración	No		No	No	No

	Windows Business Server	Webmin	YaST	Zentyal
Sistema Operativo	Windows	GNU/Linux	openSUSE	Ubuntu
Licencia	CAL	BSD	GPL	GPL
Facilidad de uso	Alta	Baja	Media	Alta
Modo de ejecución	Local	Local	Local	Local
Funcionalidades	Alta	Alta	Media	Media
Seguridad	Baja	Media	Alta	Alta
Migración	No	No	No	No

Herramientas de Migración

Libro: Windows To Linux Migration Toolkit

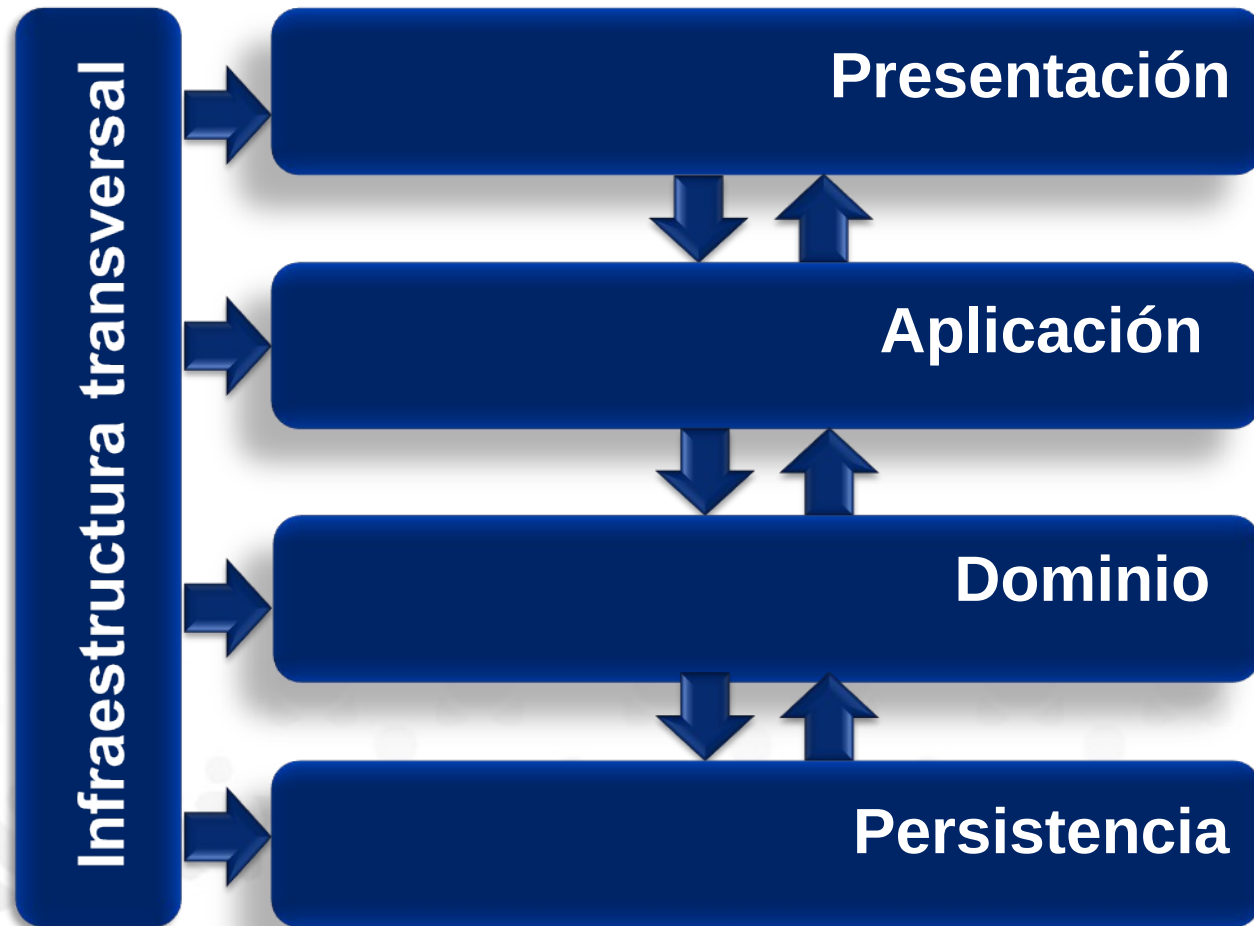


Script: w2lmt

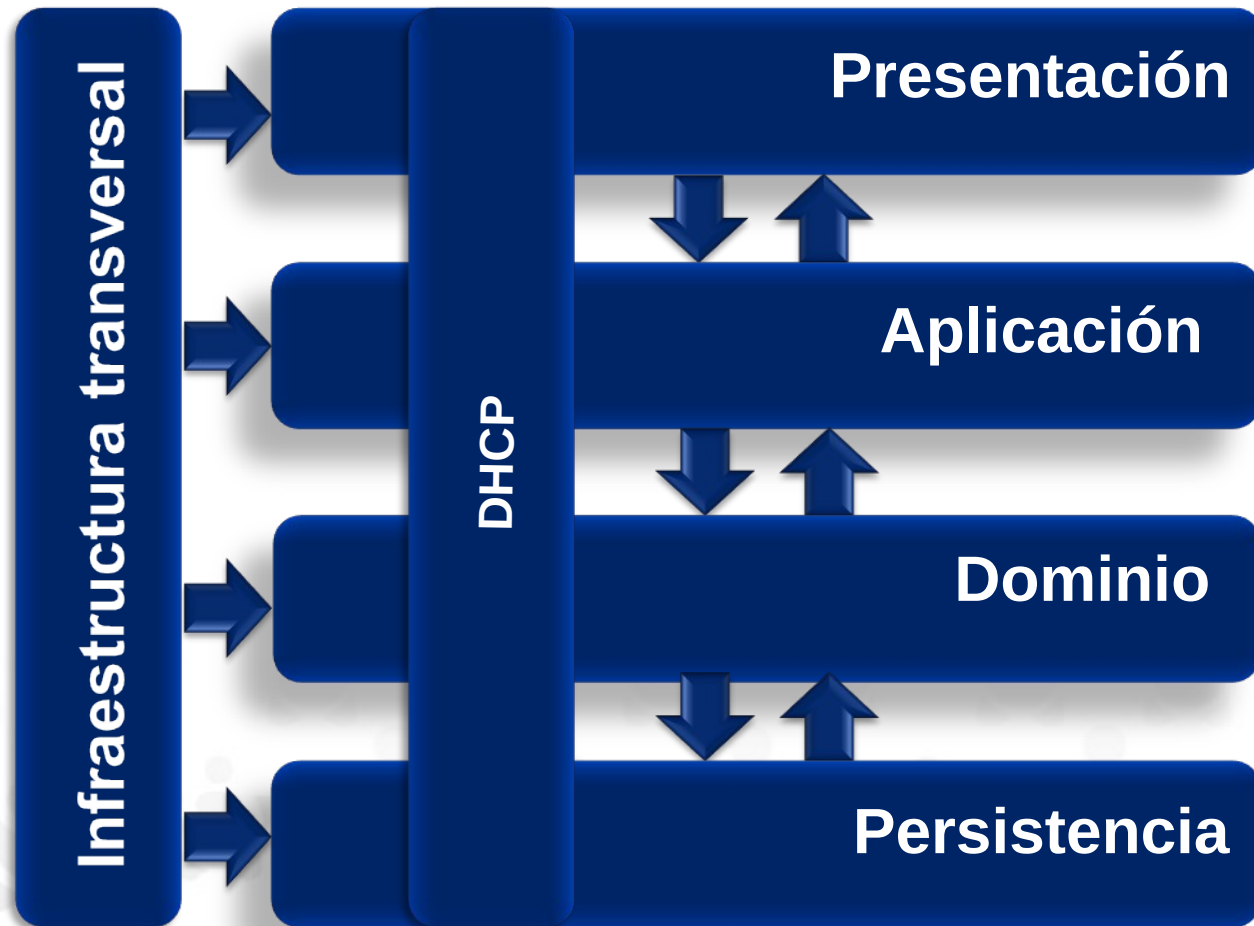
Propuesta de Solución

- ✓ Automatice el proceso de migración de servidores.
- ✓ Administre los diferentes servicios de las PYMES.
- ✓ No requiera de su instalación en los servidores.
- ✓ Ligero.

Arquitectura



Arquitectura



Módulos definidos

Servicio	Software
SSH	openssh
DHCP	dhcp3-server
Directorio Activo	Samba4
FTP	vsftpd
Servidor Web	apache2
Correo	Postfix, dovecot, amavis, spamassassin, fail2ban, postgrey, Clamav, cluebringer

Módulos definidos

Servicio	Software
Firewall	IPTables
Jabber	openfire
Proxy	squid3
ftp	vsftp
Integridad de Ficheros	afick
Salvas	Bacula
Antivirus	Clamav
Base de Datos	MySQL, Postgres

Tecnologías y herramientas



Java 7.0



Netbeans 7.2.1



RapidSVN



Spring 3.1.1



Visual Paradigm 8.0



Augeas 0.0.2



Pencil 2.0.3



UML

Funcionalidades

- Autenticar sistema.
- Gestionar configuración de red.
- Gestionar usuarios del sistema.
- Gestionar servidores.

Sistema

Aporte y Novedad

- Administre los servicios de manera remota sin instalación del sistema base local.
- Ajustada a las necesidades de las PYMES.
- Disminución del coste por concepto de licencia de las diferentes herramientas de administración.

Costos. Exchange

Limited-time offer! Get additional help from Microsoft to deploy quickly. [Learn more](#)

Exchange Online Plan 1

\$4.00 user/month

Buy

Exchange Online Plan 2

\$8.00 user/month

Buy

Large mailboxes: Each user gets 50 GB of mailbox storage and can send messages up to 25 MB in size.



Outlook support: Users can connect supported copies of Outlook to Exchange Online, so they can use the rich client application they already know.



Web-based access: For web-client access, Outlook Web App provides a premium browser-based experience that matches the look and feel of the full Outlook client.



Mobility: Mobile access is available from all phones that can receive email, including Windows Phone, iPhone, Android, and Blackberry devices.



Shared calendar and contacts: Users can compare calendars to schedule meetings and can access collaboration features, including shared calendars, groups, the global address list, external contacts, tasks, conference rooms, and delegation capabilities.



Costos. Mdaemon

Choose Your Product: ?

Pro ▾ 50 User ▾ 1 Year ▾

Product	Price
MDaemon Pro 50 User Purchase today and receive free upgrades until Thursday, October 30, 2014.	\$760.00

Costos. Iredmail

	\$299	\$599	\$299	\$599	\$299	\$599
Mail accounts stored in	OpenLDAP	OpenLDAP	MySQL	MySQL	PostgreSQL	PostgreSQL
License type	One-year license	Lifetime license	One-year	Lifetime	One-year	Lifetime
Get free upgrade for	One year	Permanent	One year	Permanent	One year	Permanent
Deploy on how many servers	One	One	One	One	One	One
Annual renew fee	\$199	N/A	\$199	N/A	\$199	N/A
Upgrade to lifetime license	\$349	N/A	\$349	N/A	\$349	N/A
Purchase with PayPal or credit card	Buy Now	Buy Now	Buy Now	Buy Now	Buy Now	Buy Now

Costos. Zimbra

[Overview](#)
Zimbra Network Edition
[Support](#)

Starter Edition

Standard Edition

Professional Edition

Annual

\$399
15 mailboxes only, no
Zimbra Support

\$625 / 25 pack
(\$25 / mailbox / year)
Includes Advantage
Support

\$875 / 25 pack
(\$35 / mailbox / year)
Includes Advantage
Support

2-year

n/a

\$1,163 / 25 pack
(\$23.25 / mailbox / year)
Includes Advantage
Support

\$1,628 / 25 pack
(\$32.50 / mailbox / year)
Includes Advantage
Support

3-Year

n/a

\$1,594 / 25 pack
(\$21.25 / mailbox / year)
Includes Advantage
Support

\$2,231 / 25 pack
(\$29.75 / mailbox / year)
Includes Advantage
Support

Perpetual

\$840
15 mailboxes only, no
Zimbra Support

\$1,125 / 25 pack
Requires purchase of at
least 1 year Zimbra
Support

\$1,575 / 25 pack
Requires purchase of at
least 1 year Zimbra
Support

Costos. ISA

Pricing

Production Licenses	Price*	Description
ISA Server 2006 Standard Edition	\$1,499 per processor	ISA Server 2006 is the integrated edge security gateway that helps protect your IT environment from Internet-based threats while providing your users with fast and secure remote access to applications and data.
ISA Server 2006 Enterprise Edition	\$5,999 per processor	ISA Server 2006 Enterprise Edition is designed for large organizations that require flexible deployment options with the highest levels of manageability, availability, and scalability.
ISA Server 2006 Enterprise Edition 25-processor pack	\$75,000 for 25 processors	ISA Server 2006 Enterprise Edition 25-processor pack is offered at 50% off the base price for customers who need ISA Server in large deployment scenarios such as branch offices.
Required Software		
Microsoft Windows Server 2003	\$999 per server	ISA Server 2006 Standard and Enterprise Edition require Windows Server 2003 operating system with service pack 1 (SP1). Visit the Windows Server 2003 Pricing and Licensing page for the details.

* All prices reflect pricing for purchases in the United States and Canada and appear in US dollars. The prices listed are estimated retail prices; reseller pricing may vary.

Costos. Kerio

Kerio

SOFTWARE & VIRTUAL APPLIANCES

Appliance ⓘ

- Additional Users ⓘ

Software Maintenance ⓘ

- Additional Users ⓘ

HARDWARE APPLIANCES

Kerio Control Box 1120 ⓘ

Kerio Control Box 3120 ⓘ

- Additional Users ⓘ

Software Maintenance ⓘ

- Additional Users ⓘ

KERIO CONTROL	KERIO CONTROL + SOPHOS AV	KERIO CONTROL + SOPHOS AV + WEB FILTER
\$265 \$26/user	\$275 \$28/user	\$295 \$32/user
\$89 \$8.70/user	\$99 \$10.70/user	\$119 \$14.70/user
		\$895 \$1,495 \$32/user
		\$119 \$14.70/user

Conclusiones

- ✓ Se analizaron las soluciones existentes para la administración y migración de servicios telemáticos.
- ✓ La arquitectura utilizada permite trabajar sobre el concepto de hacer un uso óptimo de los recursos para el mejor rendimiento de los servicios telemáticos en las empresas cubanas.
- ✓ El sistema posibilita la administración centralizada, incrementando la gestión de las redes informáticas usando SWL.

Migración a SWL y los Servicios Telemáticos.

**Autores: Ing. Pablo Soria Acosta.
Ing. Yadiel Pérez Villazón.
Ing. Reidel Castillo Arbelo.
Ing. Alexander Perez Tase.
Ing. Jorge Luis Roque Alvarez.**