

VMware OSP Tools

training & consultancy

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Do you need VMware Tools?

- Kernel modules
- Management tools
 - Power Management
 - Resolution switching
 - Host shared folders
 - Time sync driver (please do NOT use this)
 - Other plugins



Installation

- How do you install the tools?
 - Manually
 - RPM
 - Tarball
- (How) do you update them?
 - Manually with RPM
 - Uninstall/reinstall/reconfigure



Kernel Modules

- Do you use?
 - e1000
 - vmxnet
 - vmxnet3
 - pvscsi
 - vmw_balloon
- What happens after a kernel patch?



What is in SLES?

- SLES 10
 - Nothing much
- SLES 11 up to SP1
 - vmxnet3
 - vmw_pvscsi
- SLES 11 SP2 on
 - Added vmw_balloon



The way forward



OSP Tools

- Operating System Specific Packages
- Built for ESX/vSphere
 - Multiple versions
 - Also works on Server/Workstation
- Native support for multiple distros
 - RHEL (3/4/5/6)
 - SLES (9/10/11)
 - Ubuntu
 - Windows(!)



OSP Tools

- Documented!
 - <http://www.vmware.com/download/packages.html>
- Repository on vmware.com
 - <http://packages.vmware.com/tools>
 - Signed with a VMware packaging key
 - Need to import it
 - Subscribe with rug/zypper



Advantages

- Independent updates
 - No need to rely on VMware updates
- Native packaging
 - RPM/DEB
 - ISO for Windows!
- Version management
 - Normal zypper commands



Advantages

- Kernel weak versioning
 - Modules preserved after kernel update!
- PowerOps plugin
 - Shutdown guest now works



Installation



The Lawrence Method ®

- Download packaging key using a web browser
 - `rpm --import /key_path/key_name`
- Add repo
 - `zypper addservice --type=YUM
http://packages.vmware.com/tools/esx/4.1/sles11sp
1/x86_64 vmware-tools-collection`
- Success??
 - `zypper packages vmware-tools-collection`
- Install

`zypper install vmware-tools-collection vmware-tools`



The Mark Method (open source)

- We have a script for that!
 - OS version/SP detection
 - SLES 10/11 all SPs
 - Uses appropriate software manager
 - Imports build key
 - Adds repo
 - Installs packages
 - Unattended – can be used in autoYaST



The script continued...

- Proxy support

- curl supports proxy environment variables
- rpm doesn't so we need to work a little harder:

```
# Import the VMware packaging key
echo "Importing VMware packaging key"
if set | grep ^http_proxy >/dev/null; then
  echo "Using configured proxy server"
  PROXY_HOST=$(echo $http_proxy | cut -d "/" -f 3 | cut -d ":" -f 1)
  PROXY_PORT=$(echo $http_proxy | cut -d "/" -f 3 | cut -d ":" -s -f 2)
  RPM_OPTS="--httpproxy $PROXY_HOST"
  if [ ! -z "$PROXY_PORT" ]; then
    RPM_OPTS="$RPM_OPTS --httpport $PROXY_PORT"
  fi
fi
rpm $RPM_OPTS --import http://packages.vmware.com/tools/keys/VMWARE-PACKAGING-G
```



The script continued...

- Proxy support
 - Thanks Lawrence!
 - It becomes:

```
# Import the VMware packaging key  
curl http://packages.vmware.com/tools/keys/VMWARE-PACKAGING-GPG-RSA-KEY.pub > /tmp/VMWARE-PACKAGING-GPG-RSA-KEY.pub  
rpm --import /tmp/VMWARE-PACKAGING-GPG-RSA-KEY.pub
```



Futures

- Non-SUSE OS
 - Yes, they do exist!
 - Centos
 - RH
 - Ubuntu(?)



Demo



Mirroring with SMT



Mirroring with SMT

- SMT can mirror repos
 - And attach them to “Products”
- SMT Commands
 - `smt-list-products | grep 11.2`
 - `smt-setup-custom-repos --productid 3009 -name "VMware-OSP-Tools-SLES11-SP2-x86_64" --exturl http://packages.vmware.com/tools/esx/latest/sles11.2/x86_64/ --description "VMware OSP tools for SLES11 SP2 x86_64"`





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