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# ADSP-9.1.3 VM-Tools

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## VM-Tools Installation Procedure

### List of steps to be executed :

1. **FOR ESXI5.5** Download the following packages from

[http://packages.vmware.com/tools/esx/5.5latest/rhel6/x86\\_64/index.html](http://packages.vmware.com/tools/esx/5.5latest/rhel6/x86_64/index.html) :

Packages: (Total: 23)

- a) kmod-vmware-tools-vmci-9.5.13.0-2.6.32.71.el6.x86\_64.5.el6.x86\_64.rpm
- b) kmod-vmware-tools-vmxnet-2.0.15.0-2.6.32.71.el6.x86\_64.5.el6.x86\_64.rpm
- c) kmod-vmware-tools-vsock-9.5.6.0-2.6.32.71.el6.x86\_64.5.el6.x86\_64.rpm
- d) vmware-tools-esx-kmods-9.4.12-1.el6.x86\_64.rpm
- e) vmware-tools-foundation-9.4.12-1.el6.x86\_64.rpm
- f) vmware-tools-vmci-common-9.4.12-5.el6.x86\_64.rpm
- g) vmware-tools-vmxnet-common-9.4.12-5.el6.x86\_64.rpm
- h) vmware-tools-vsock-common-9.4.12-5.el6.x86\_64.rpm
- i) vmware-tools-core-9.4.12-1.el6.x86\_64.rpm
- j) vmware-tools-esx-nox-9.4.12-1.el6.x86\_64.rpm
- k) vmware-tools-guestlib-9.4.12-1.el6.x86\_64.rpm
- l) vmware-tools-guestsdk-9.4.12-1.el6.x86\_64.rpm
- m) vmware-tools-libraries-nox-9.4.12-1.el6.x86\_64.rpm
- n) vmware-tools-plugins-autoUpgrade-9.4.12-1.el6.x86\_64.rpm
- o) vmware-tools-plugins-deployPkg-9.4.12-1.el6.x86\_64.rpm
- p) vmware-tools-plugins-grabbitmqProxy-9.4.12-1.el6.x86\_64.rpm
- q) vmware-tools-plugins-guestInfo-9.4.12-1.el6.x86\_64.rpm
- r) vmware-tools-plugins-hgfsServer-9.4.12-1.el6.x86\_64.rpm
- s) vmware-tools-plugins-powerOps-9.4.12-1.el6.x86\_64.rpm
- t) vmware-tools-plugins-timeSync-9.4.12-1.el6.x86\_64.rpm
- u) vmware-tools-plugins-vix-9.4.12-1.el6.x86\_64.rpm
- v) vmware-tools-plugins-vmbbackup-9.4.12-1.el6.x86\_64.rpm
- w) vmware-tools-services-9.4.12-1.el6.x86\_64.rpm

**FOR ESXI6.0** Download the following packages from

[http://packages.vmware.com/tools/esx/6.0u1/rhel6/x86\\_64/index.html](http://packages.vmware.com/tools/esx/6.0u1/rhel6/x86_64/index.html)

Packages: (Total: 24)

- a) kmod-vmware-tools-vmci
  - b) kmod-vmware-tools-vmxnet
  - c) kmod-vmware-tools-vsock
  - d) vmware-tools-core
  - e) vmware-tools-esx-kmods
  - f) vmware-tools-esx-nox
  - g) vmware-tools-foundation
  - h) vmware-tools-guestlib
  - i) vmware-tools-guestsdk
  - j) vmware-tools-libraries-nox
  - k) vmware-tools-plugins-autoUpgrade
  - l) vmware-tools-plugins-deployPkg
  - m) vmware-tools-plugins-grabbitmqProxy
  - n) vmware-tools-plugins-guestInfo
  - o) vmware-tools-plugins-hgfsServer
  - p) vmware-tools-plugins-powerOps
  - q) vmware-tools-plugins-timeSync
  - r) vmware-tools-plugins-vix
  - s) vmware-tools-plugins-vmbackup
  - t) vmware-tools-services
  - u) vmware-tools-vgauth
  - v) vmware-tools-vmci-common
  - w) vmware-tools-vmxnet-common
  - x) vmware-tools-vsock-common
2. Login as user **smxmgr** through WinSCP, create a new folder viz **vmtools** in directory path `/usr/local/tmp`
  3. Copy the downloaded OSP packages for ESXi5.5 to `/usr/local/tmp/vmtools/`  
**NOTE:**In case if vmtools has to be installed on ESXi6.0, copy all the rpms required for ESXi6.0 in `/usr/local/tmp/vmtools` and continue the installation from step 4
  4. Putty(SSH) to ADSP server and login with smxmgr

```
root@localhost:~  
*** A D S P a d m i n ***  
(M) Manage      (D) Dbase      (S) Software    (C) Config  
(Q) to quit     -> |
```

5. Under Software → vmtools

```
Start page X root@localhost:~/vmtools X root@localhost:/usr/local/smx/lib X root@localhost:/usr/local/src/9.2  
*** A D S P a d m i n ***  
(S) Software  
(SERVMOD) Install service module  
(VMTTOOLS) Manage VMWare Tools  
(Q) to quit (return to previous menu) -> |
```

6. under VMTools → choose **Install(I)** option

```
Start page X root@localhost:/usr/local/smx/lib X root@localhost:~/latestvmtools X root@localhost:~ X root@localhost:~ X smxmgr@localhost:~ X  
Import new Metadata for VMWare tools  
List supported VMWare tools  
Install VMWare Tools  
Uninstall VMWare Tools  
Show installed VMWare Tools status  
(Q) to quit (return to previous menu) -> |
```

7. Choose option 1 for ESXI5.5 if the VM is hosted on ESXI5.5.0 server. Note that there is no error message thrown if we install ESXI6.0 rpms on EXSI5.5. So it's strictly recommended to use the rpms correctly.

```

Getting Started | Summary | Resource Allocation | Performance | Events | Console | Permissions
(1) Import new Metadata for VMware tools
(2) List supported VMware tools
(3) Install VMware Tools
(4) Uninstall VMware Tools
(5) Show installed VMware Tools status

(Q) to quit (return to previous menu) -> i

Metadata files available in server:

(1) ESXi-5.5_default
(2) ESXi-6.0_default

Enter line number of metadata file to install
(<Q> to return to previous menu)
-> 1

Enter fully-qualified directory name
where the downloaded rpms present
(<Enter> if in /usr/local/tmp/vmtools)
(<Q> to return to previous menu)
-> _

```

8. Give the path of the saved rpms `/usr/local/tmp/vmtools/` and press ENTER.

```

Start page x | root@localhost: /usr/local/sbin X | root@localhost: ~/test/vmtools X | root@localhost: ~ X | root@localhost: ~ X | smxmgr@localhost: ~ X
Enter fully-qualified directory name
where the downloaded rpms present
(<Enter> if in /usr/local/tmp/vmtools)
(<Q> to return to previous menu)
->

Verifying integrity of ESXi 5.5 (default) vmtools ..... done
Installing ESXi 5.5 (default) vmtools ...

Preparing...
1:vmware-tools-foundation##### [ 4%]
2:vmware-tools-libraries##### [ 9%]
3:vmware-tools-guestlib ##### [ 13%]
4:vmware-tools-core ##### [ 17%]
5:vmware-tools-services ##### [ 22%]
vmware-tools-services start/running
6:vmware-tools-plugins-au##### [ 26%]
vmware-tools-services start/running
7:vmware-tools-plugins-de##### [ 30%]
vmware-tools-services start/running
8:vmware-tools-plugins-gr##### [ 35%]
vmware-tools-services start/running
9:vmware-tools-plugins-gu##### [ 39%]
vmware-tools-services start/running
10:vmware-tools-plugins-ho##### [ 43%]
vmware-tools-services start/running
11:vmware-tools-plugins-po##### [ 48%]
vmware-tools-services start/running
12:vmware-tools-plugins-ti##### [ 52%]
vmware-tools-services start/running
13:vmware-tools-plugins-vi##### [ 57%]
vmware-tools-services start/running
14:vmware-tools-plugins-vm##### [ 61%]
vmware-tools-services start/running
15:vmware-tools-vmci-commo##### [ 65%]
16:kmmod-vmware-tools-vmci ##### [ 70%]
vmci start/running
17:vmware-tools-vmxnet-com##### [ 74%]
18:kmmod-vmware-tools-vmxne##### [ 78%]
19:vmware-tools-vsock-com##### [ 83%]
20:kmmod-vmware-tools-vsock##### [ 87%]
vsock start/running
21:vmware-tools-esx-kmods ##### [ 91%]
22:vmware-tools-esx-nox ##### [ 96%]
23:vmware-tools-guestsdk ##### [100%]

(Press <CR> to continue)

```

9. Status of installed tools can be viewed in WIPADMIN→Manage→Status→Choose option 'p'

```

192.168.11.31 - PuTTY
WIPS v9.1
Build: 9.1.3-10
Hotfixes: a8
VMtools: ESXi-5.5 Installed

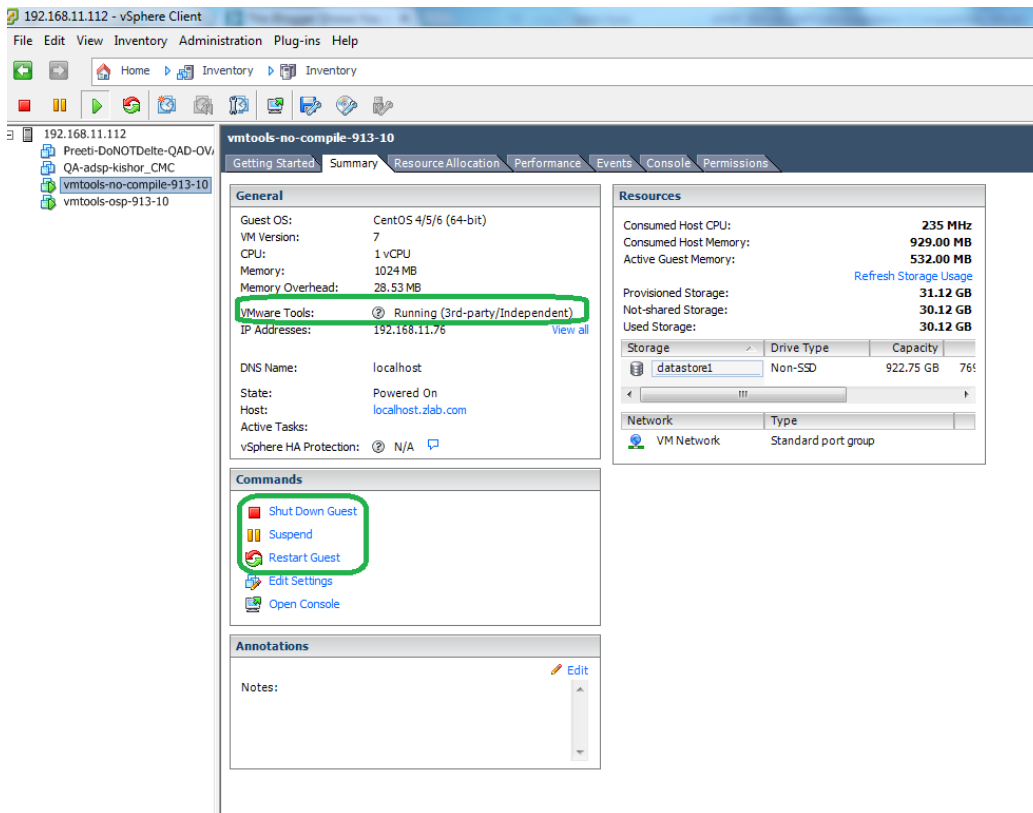
Tasks: 296 total,  1 running, 295 sleeping,  0 stopped,  0 zombie

Health Monitor (pid 24943)           [ RUNNING ]
Action Manager (pid 24559)          [ RUNNING ]
RMI Registry (pid 24469)             [ RUNNING ]
Report Server (pid 24601)            [ RUNNING ]
Backup Server (pid 24522)            [ RUNNING ]
Schedule Server (pid 24643)          [ RUNNING ]
Device Management Server (pid 24685) [ RUNNING ]
RF Modeling Engine (pid 24719)       [ RUNNING ]
Protocol Analysis Engine (pid 24338) [ RUNNING ]
Forensic Server (pid 24443)         [ RUNNING ]
postmaster (pid 24238) is running...
Graphical User Interface (pid 24911) [ RUNNING ]

(Press <CR> to return to previous menu)

```

10. Visit the vSphere client and verify the status of the vmware tools in summary tab of the ADSP VM. The status should be shown as “Running”



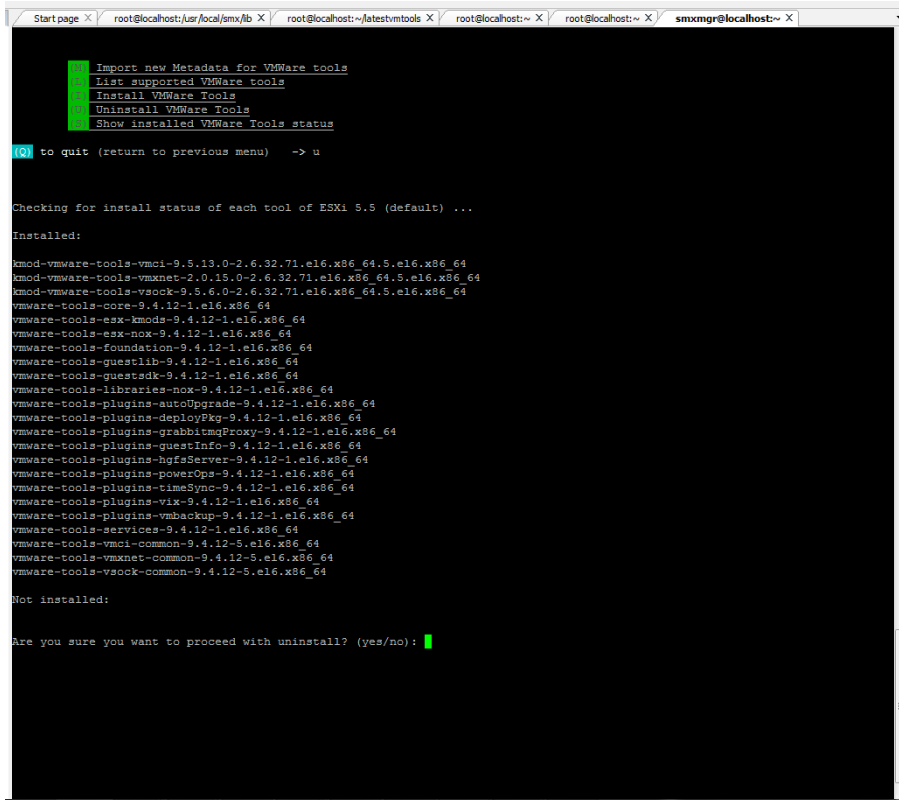
The screenshot shows the vSphere Client interface for a VM named 'vmtools-no-compile-913-10'. The 'Summary' tab is active, displaying various system metrics. The 'VMware Tools' status is highlighted with a green box and shows 'Running (3rd-party/Independent)'. Below the summary, the 'Commands' section also has a green box around the 'Restart Guest' button.

Storage	Drive Type	Capacity
datastore1	Non-SSD	922.75 GB

## VM-Tools UNInstallation Procedure

### List of steps to be executed :

1. Putty(SSH) to ADSP server and login with smxmgr access
2. Uninstall vmtools . WIPADMIN→Software→vmtools→uninstall→choose option 'yes'



```
Start page x root@localhost:~/.local/smx/ib x root@localhost:~/latest/vmtools x root@localhost:~ x root@localhost:~ x smxmgr@localhost:~ x
Import new Metadata for VMWare tools
List supported VMWare tools
Install VMWare Tools
Uninstall VMWare Tools
Show installed VMWare Tools status
[0] to quit (return to previous menu) -> u

Checking for install status of each tool of ESXi 5.5 (default) ...
Installed:
kmod-vmware-tools-vmci-9.5.13.0-2.6.32.71.e16.x86_64.5.e16.x86_64
kmod-vmware-tools-vmxnet-2.0.15.0-2.6.32.71.e16.x86_64.5.e16.x86_64
kmod-vmware-tools-vmtoolsd-9.5.6.0-2.6.32.71.e16.x86_64.5.e16.x86_64
vmware-tools-core-9.4.12-1.e16.x86_64
vmware-tools-eax-kmods-9.4.12-1.e16.x86_64
vmware-tools-eax-nox-9.4.12-1.e16.x86_64
vmware-tools-foundation-9.4.12-1.e16.x86_64
vmware-tools-guestlib-9.4.12-1.e16.x86_64
vmware-tools-guestsdk-9.4.12-1.e16.x86_64
vmware-tools-libraries-nox-9.4.12-1.e16.x86_64
vmware-tools-plugins-autoUpgrade-9.4.12-1.e16.x86_64
vmware-tools-plugins-deployPkg-9.4.12-1.e16.x86_64
vmware-tools-plugins-qrahhitmgProxy-9.4.12-1.e16.x86_64
vmware-tools-plugins-questInfo-9.4.12-1.e16.x86_64
vmware-tools-plugins-hgfsServer-9.4.12-1.e16.x86_64
vmware-tools-plugins-powerOps-9.4.12-1.e16.x86_64
vmware-tools-plugins-timeSync-9.4.12-1.e16.x86_64
vmware-tools-plugins-vix-9.4.12-1.e16.x86_64
vmware-tools-plugins-vmbackup-9.4.12-1.e16.x86_64
vmware-tools-services-9.4.12-1.e16.x86_64
vmware-tools-vmci-common-9.4.12-5.e16.x86_64
vmware-tools-vmxnet-common-9.4.12-5.e16.x86_64
vmware-tools-vmtoolsd-common-9.4.12-5.e16.x86_64
Not installed:
Are you sure you want to proceed with uninstall? (yes/no):
```

3. Status of installed tools can be viewed in WIPADMIN→Manage→Status→choose option 'p'

```

Preeti-913-10a8-Default
Getting Started Summary Resource Allocation Performance Events Console Permissions

Current process status for system 000C29AB73C3C0A00B3C :

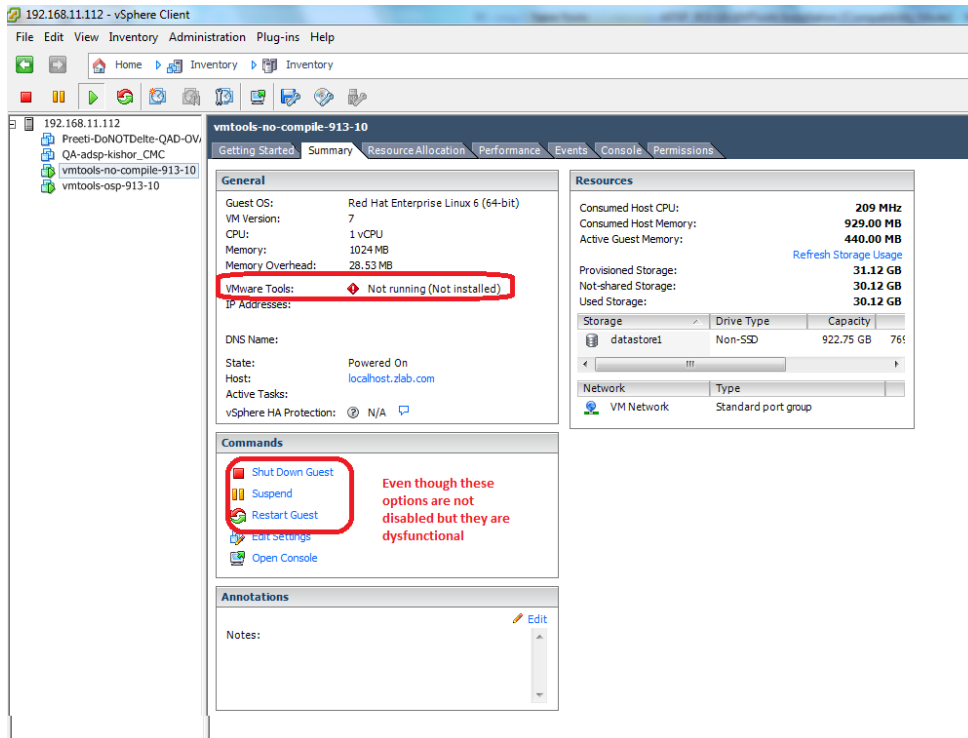
WIPS v9.1
Build: 9.1.3-10
Hotfixes: a8
UMtools: Not Installed

Tasks: 285 total, 1 running, 284 sleeping, 0 stopped, 0 zombie

Health Monitor (pid 8437) [ RUNNING ]
Action Manager (pid 8038) [ RUNNING ]
RMI Registry (pid 2224) [ RUNNING ]
Report Server (pid 8074) [ RUNNING ]
Backup Server (pid 2367) [ RUNNING ]
Schedule Server (pid 8117) [ RUNNING ]
Device Management Server (pid 8157) [ RUNNING ]
RF Modeling Engine (pid 8188) [ RUNNING ]
Protocol Analysis Engine (pid 7902) [ RUNNING ]
Forensic Server (pid 8003) [ RUNNING ]
postmaster (pid 2000) is running...
Graphical User Interface (pid 8950) [ RUNNING ]

(Press <CR> to return to previous menu)
  
```

4. Visit the vphere client and verify the status of the vmware tools in summary tab of the ADSP VM



192.168.11.112 - vSphere Client

File Edit View Inventory Administration Plug-ins Help

Home Inventory Inventory

192.168.11.112

- Preeti-DoNOTDelete-QAD-OV
- QA-adsp-kishor\_CMC
- vmtools-no-compile-913-10
- vmtools-osp-913-10

vmtools-no-compile-913-10

Getting Started Summary Resource Allocation Performance Events Console Permissions

**General**

Guest OS: Red Hat Enterprise Linux 6 (64-bit)  
 VM Version: 7  
 CPU: 1 vCPU  
 Memory: 1024 MB  
 Memory Overhead: 28.53 MB  
 VMware Tools: **Not running (Not installed)**  
 IP Addresses:  
 DNS Name:  
 State: Powered On  
 Host: localhost.zlab.com  
 Active Tasks:  
 vSphere HA Protection: N/A

**Resources**

Consumed Host CPU: 209 MHz  
 Consumed Host Memory: 929.00 MB  
 Active Guest Memory: 440.00 MB  
 Provisioned Storage: 31.12 GB  
 Not-shared Storage: 30.12 GB  
 Used Storage: 30.12 GB

Storage	Drive Type	Capacity
datastore1	Non-SSD	922.75 GB

**Commands**

- Shut Down Guest
- Suspend
- Restart Guest
- Edit Settings
- Open Console

Even though these options are not disabled but they are dysfunctional

**Annotations**

Notes: