

Linux Report IP address in NAT and Bridge Mode

The presentation will logon to a copy of the class Virtual Linux system using the account "Albatross03". The presentation will set VMware Workstation Player in NAT mode and obtain the IP addresses. The presentation will set VMware Workstation Player in Bridge mode, check the bridge interface, and obtain the IP addresses.

Operating System: OpenSUSE Leap 42.1

Preuss

9/23/2016

Player ▾



9:09 AM

Friday, September 23, 2016



albatross02



albatross03



albatross04



albatross05



albatr

Plasma 5

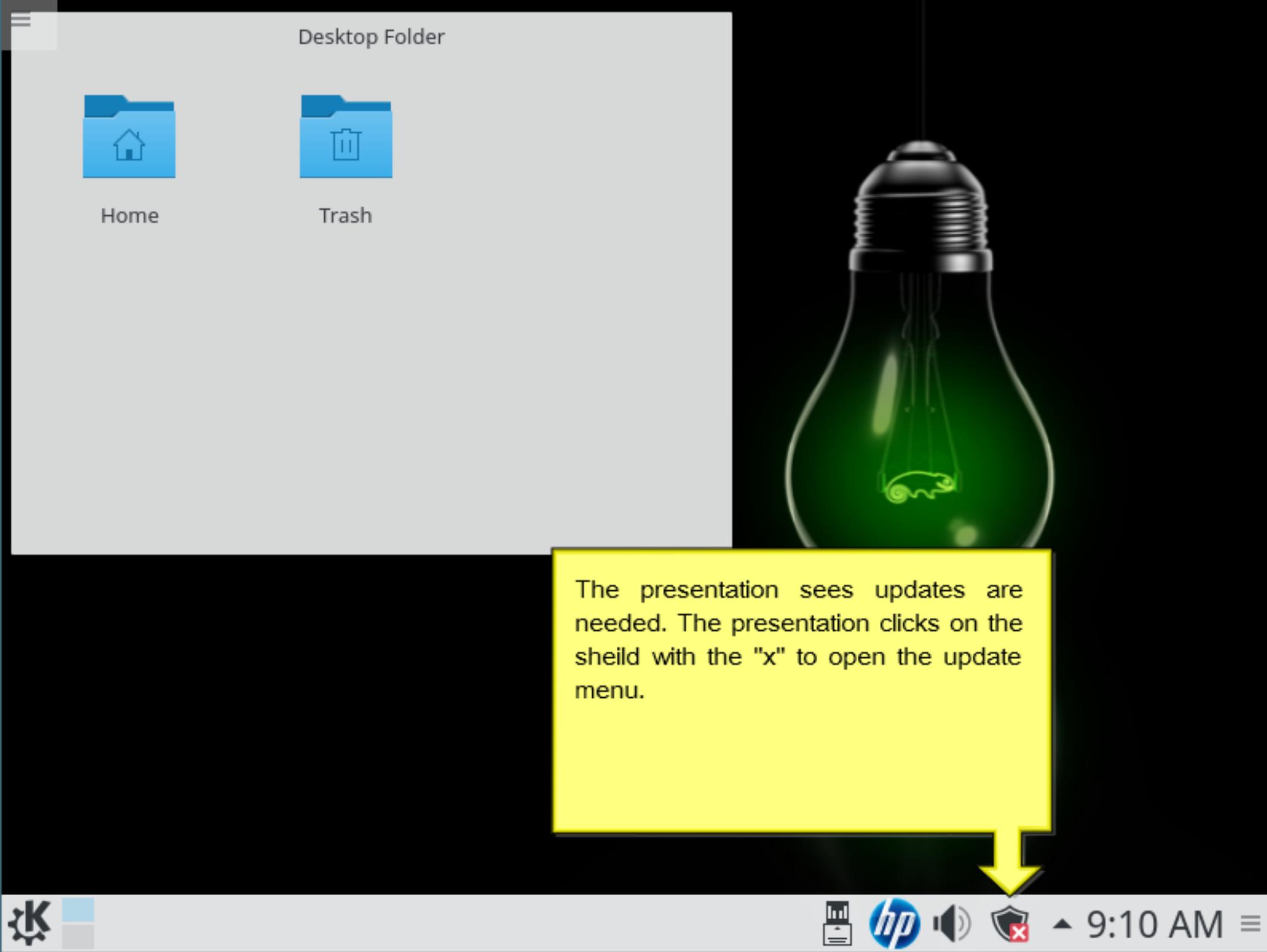
.....

Login



The presentation starts the class Linux virtual machine. The presentation selects the presentation login and enters the correct password. The presentation select "Login" to continue.

Player ▾



hp 9:10 AM

Player ▾



Desktop Folder



Home



Trash



Software Updates

You have 1 new update
(including 1 security update)

The presentation selects "Install Updates" to update the Linux system.



Install Updates



hp 9:10 AM

Player ▾



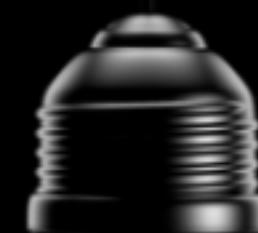
Desktop Folder



Home



Trash



Software Updates

Your system is up to date

Last updated: 1 minute(s) ago

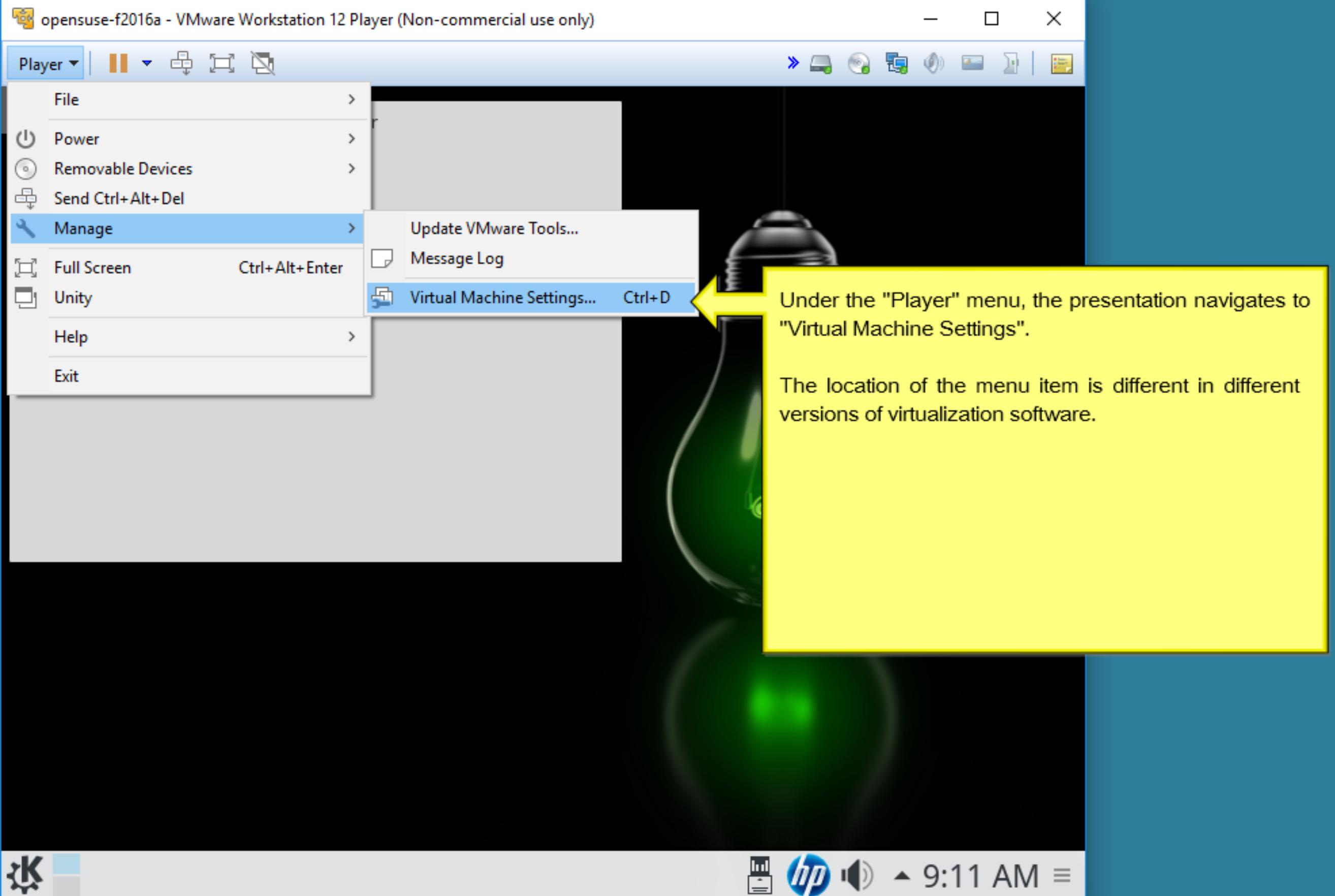


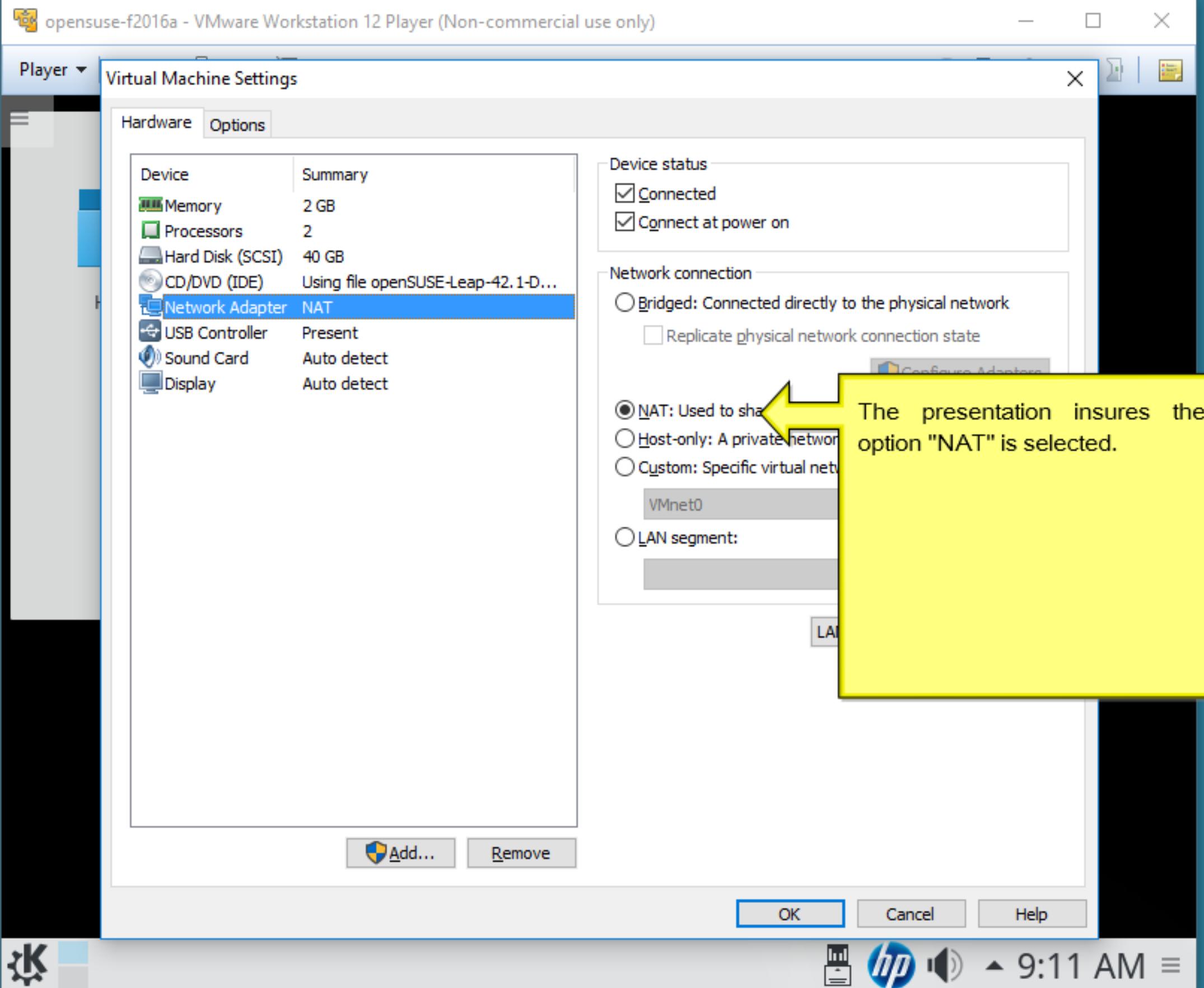
The presentation selects the red "X" to close the dialog box. The presentation selects the down arrow to close "Notifications".



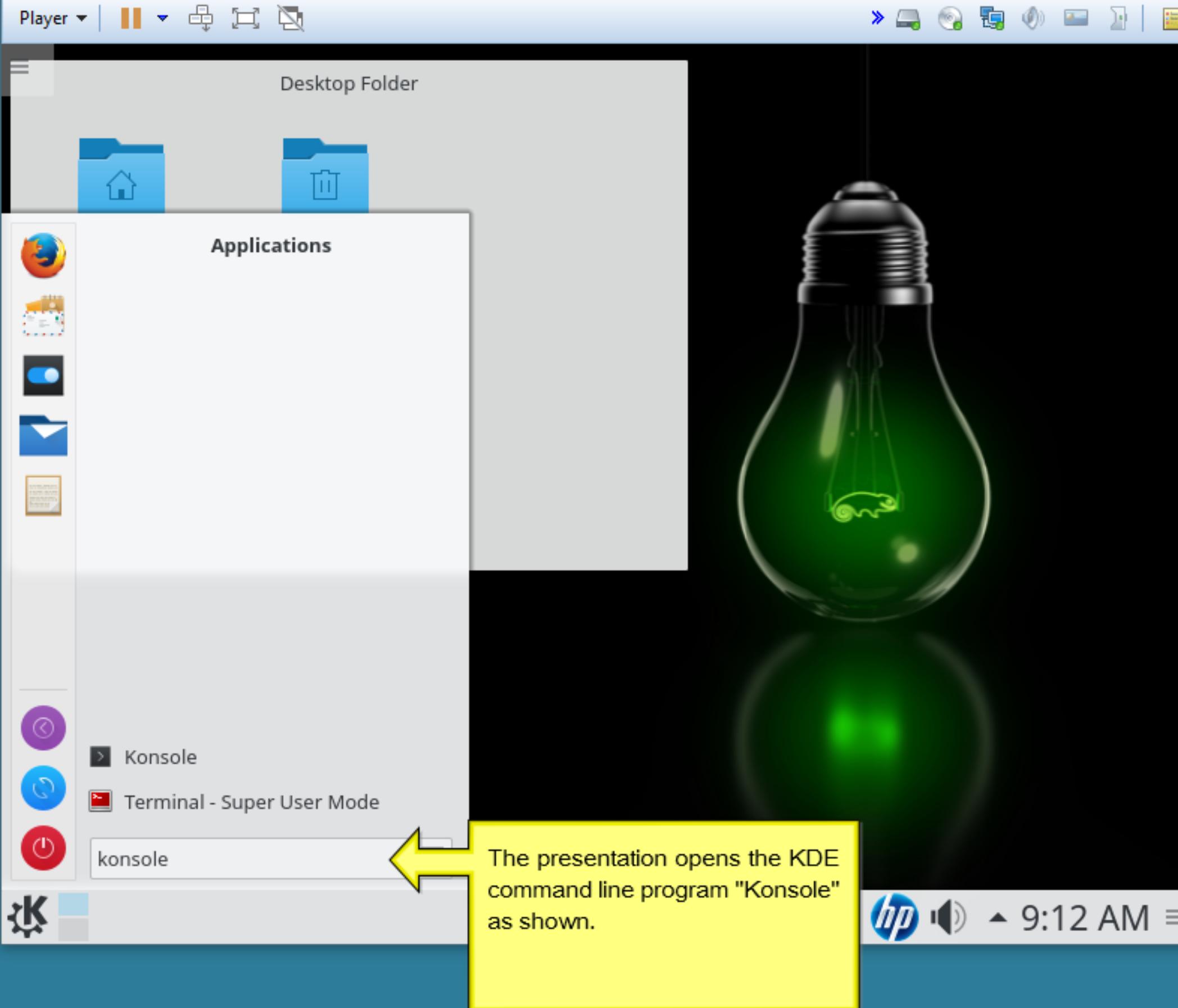
9:10 AM

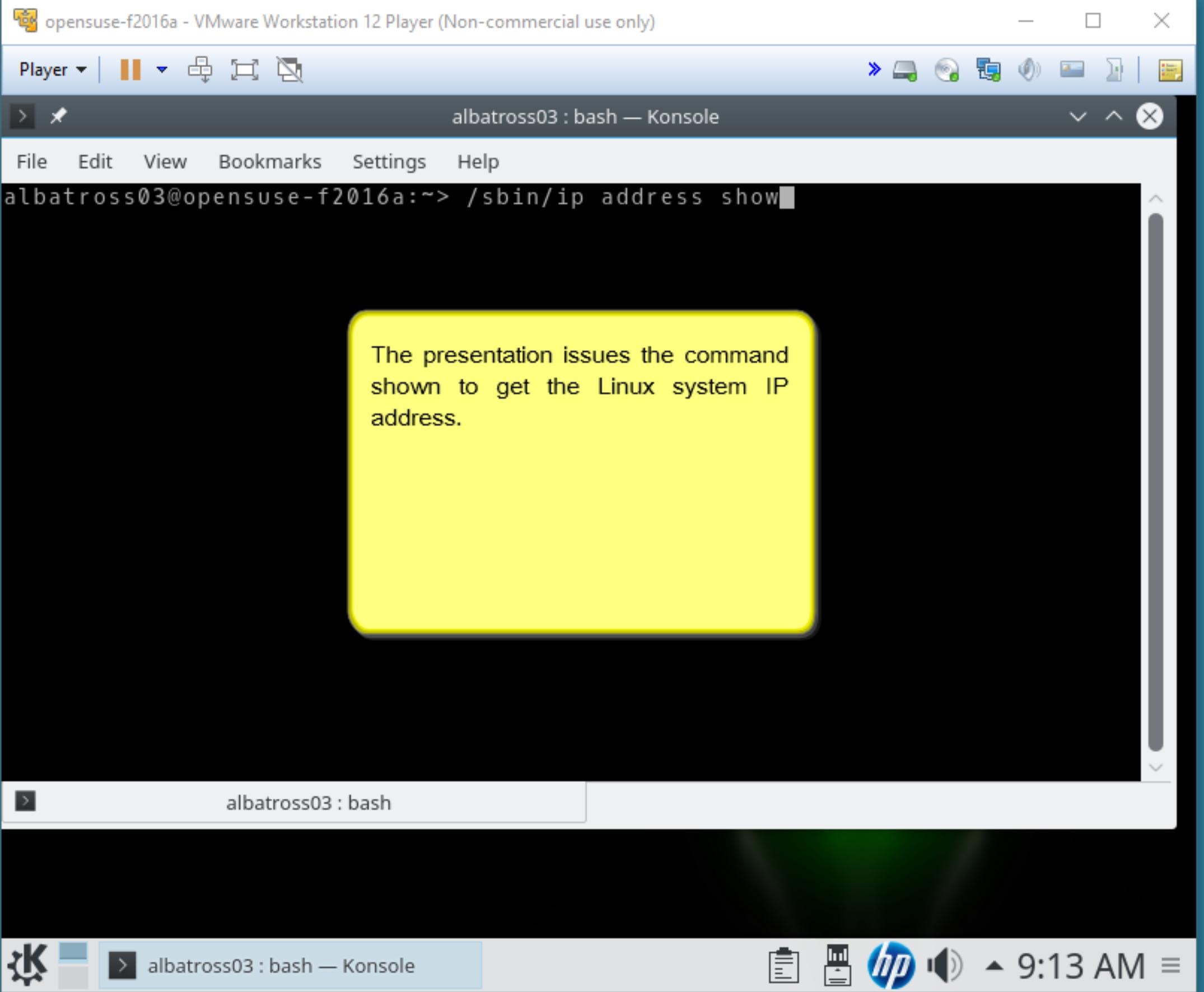






9:11 AM







albatross03 : bash — Konsole



File Edit View Bookmarks Settings Help

```
albatross03@opensuse-f2016a:~> /sbin/ip address show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 00:0c:29:57:37:df brd ff:ff:ff:ff:ff:ff
    inet 192.168.241.129/24 brd 192.168.241.255 scope global eth0
        valid_lft forever preferred_lft forever
    inet6 fe80::20c:29ff:fe57:37df/64 scope link
        valid_lft forever preferred_lft forever
albatross03@opensuse-f2016a:~>
```

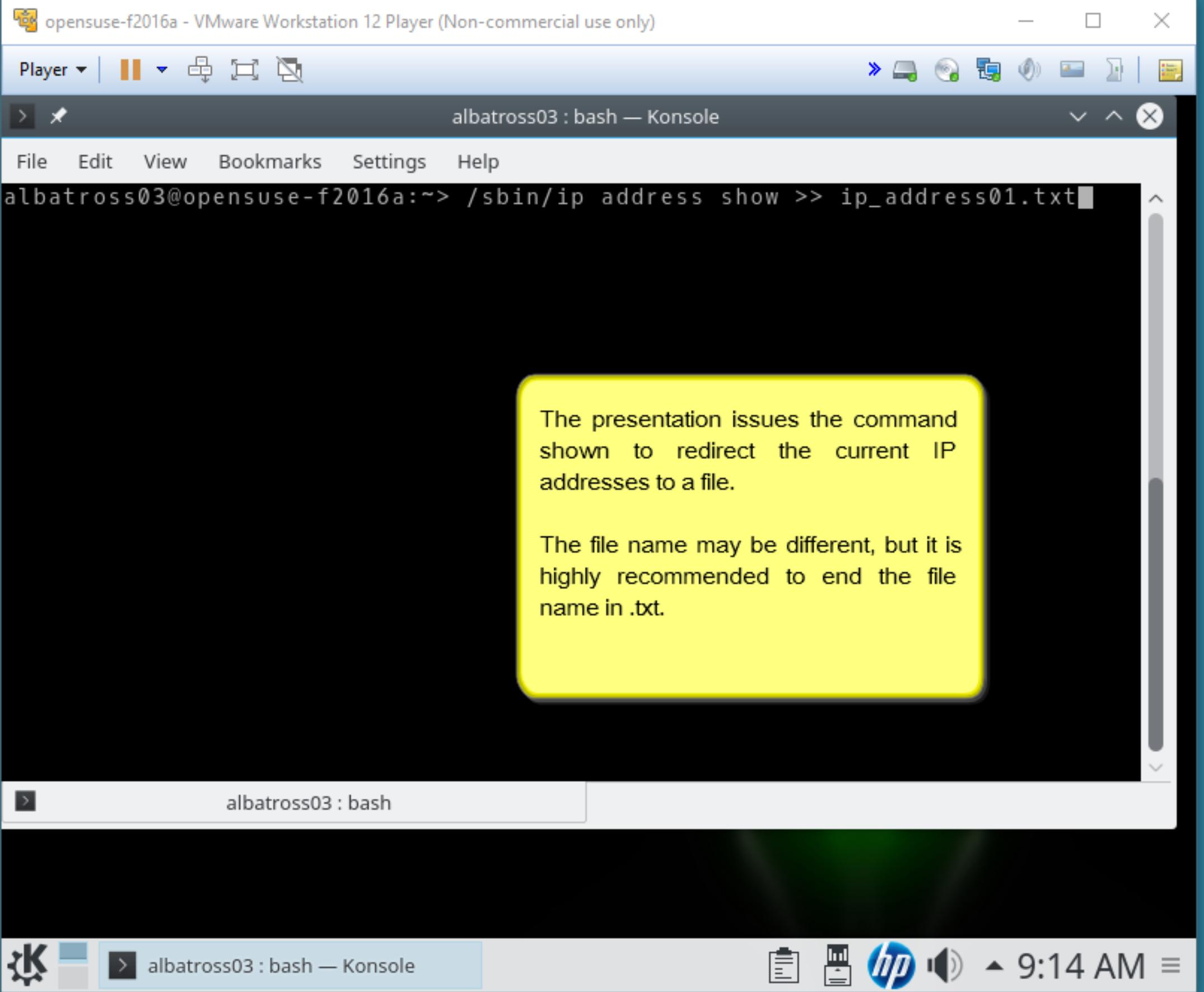
This is the results for the presentation.
Other systems will have different numbers.

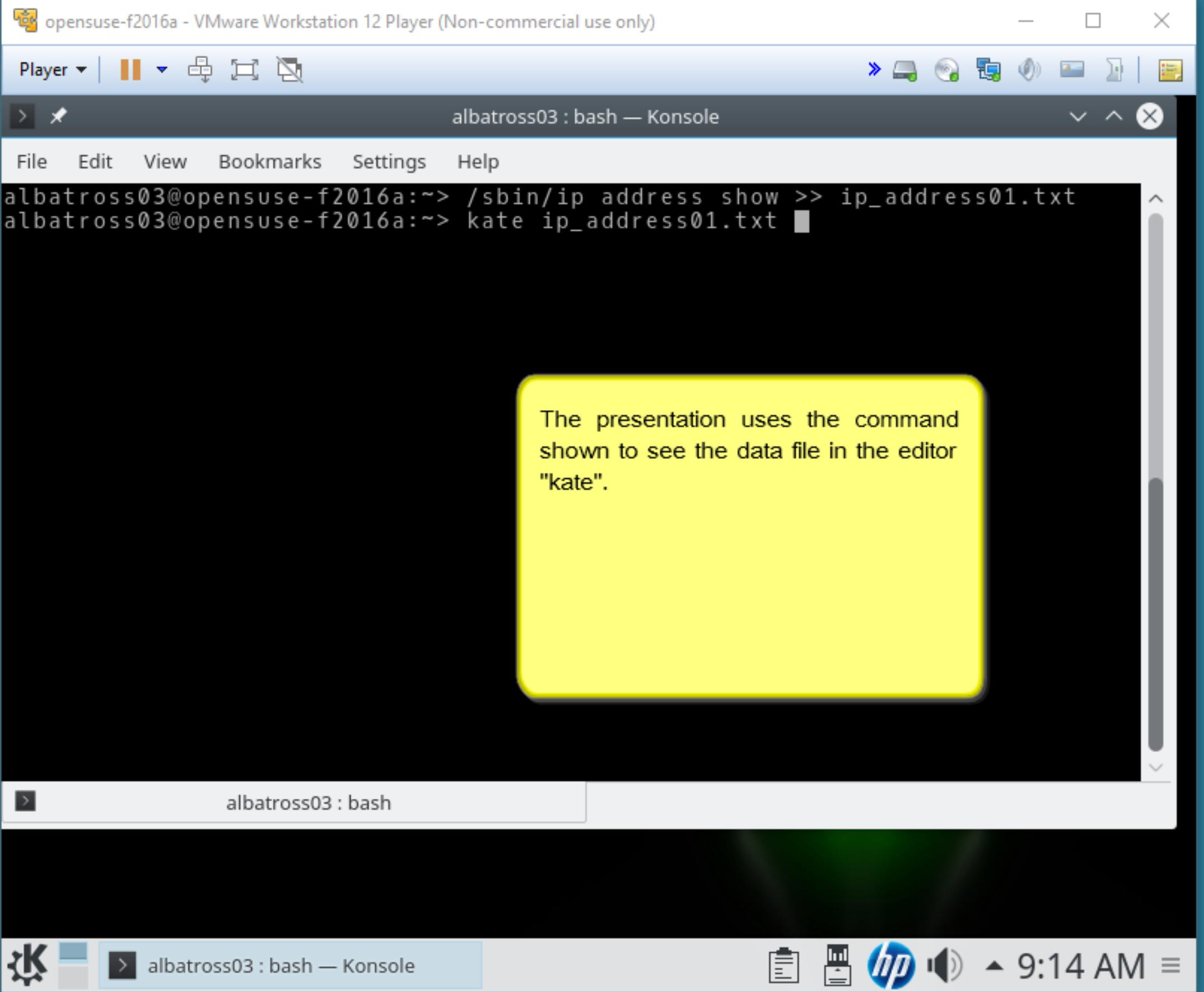
albatross03 : bash



9:13 AM

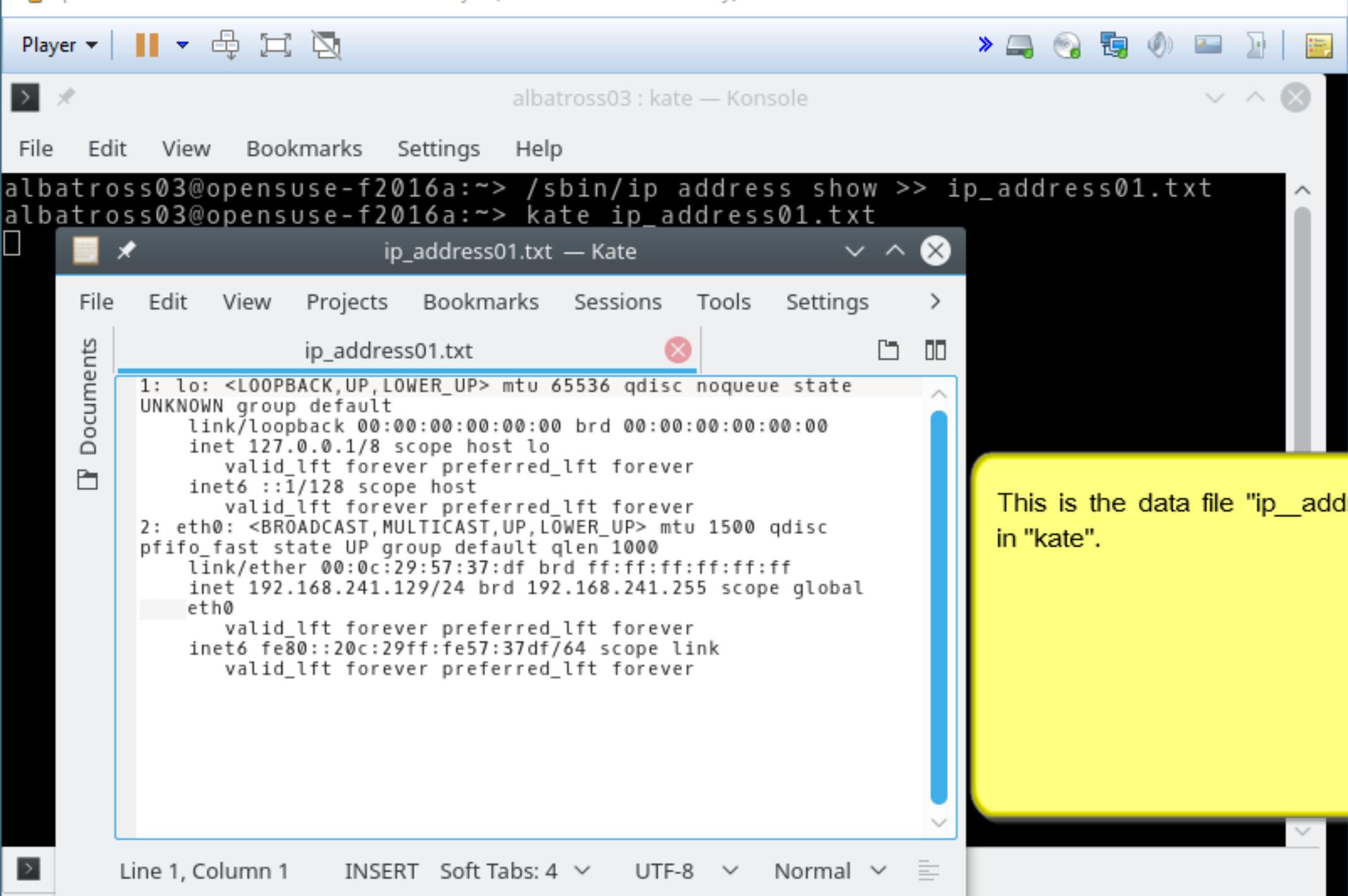




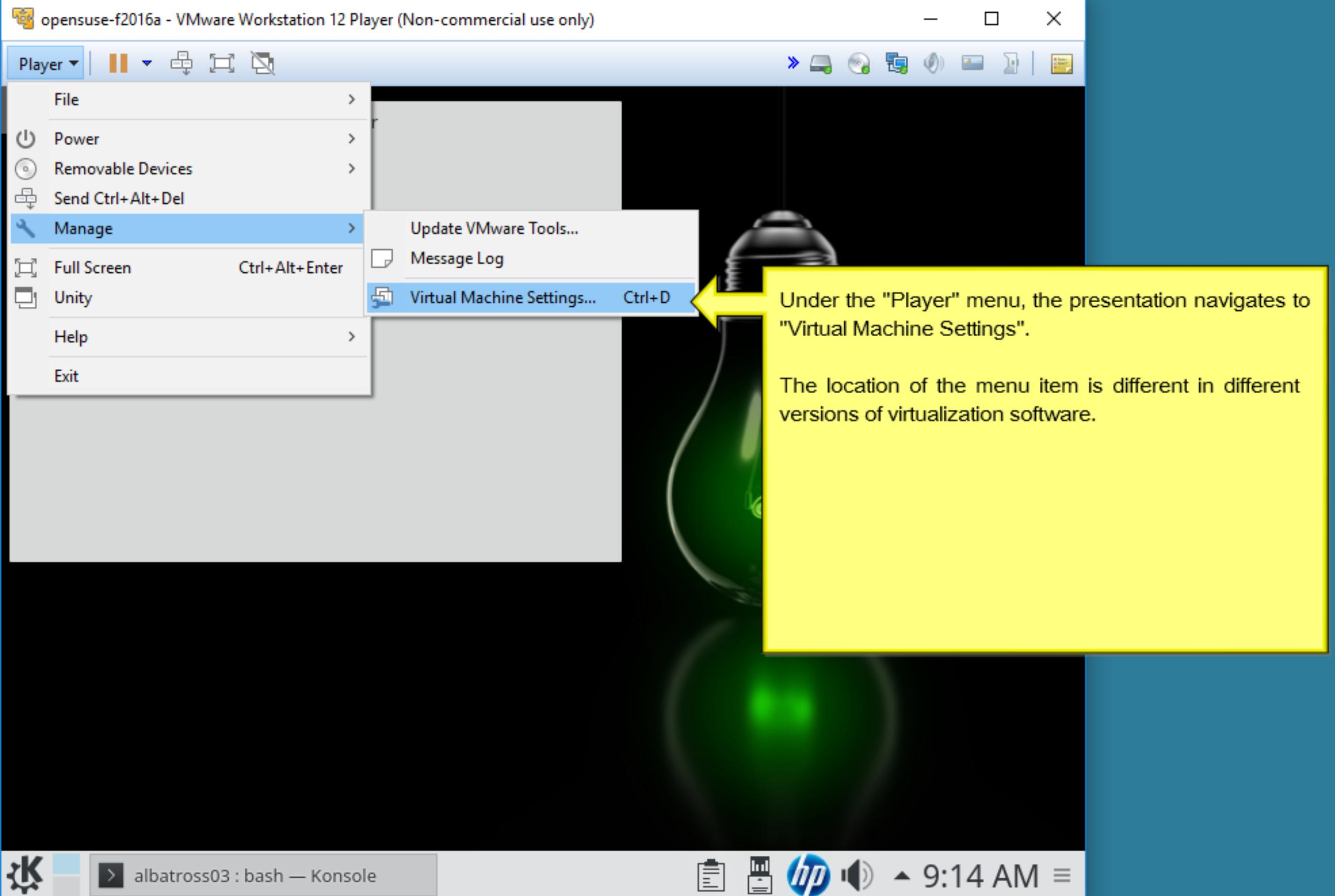


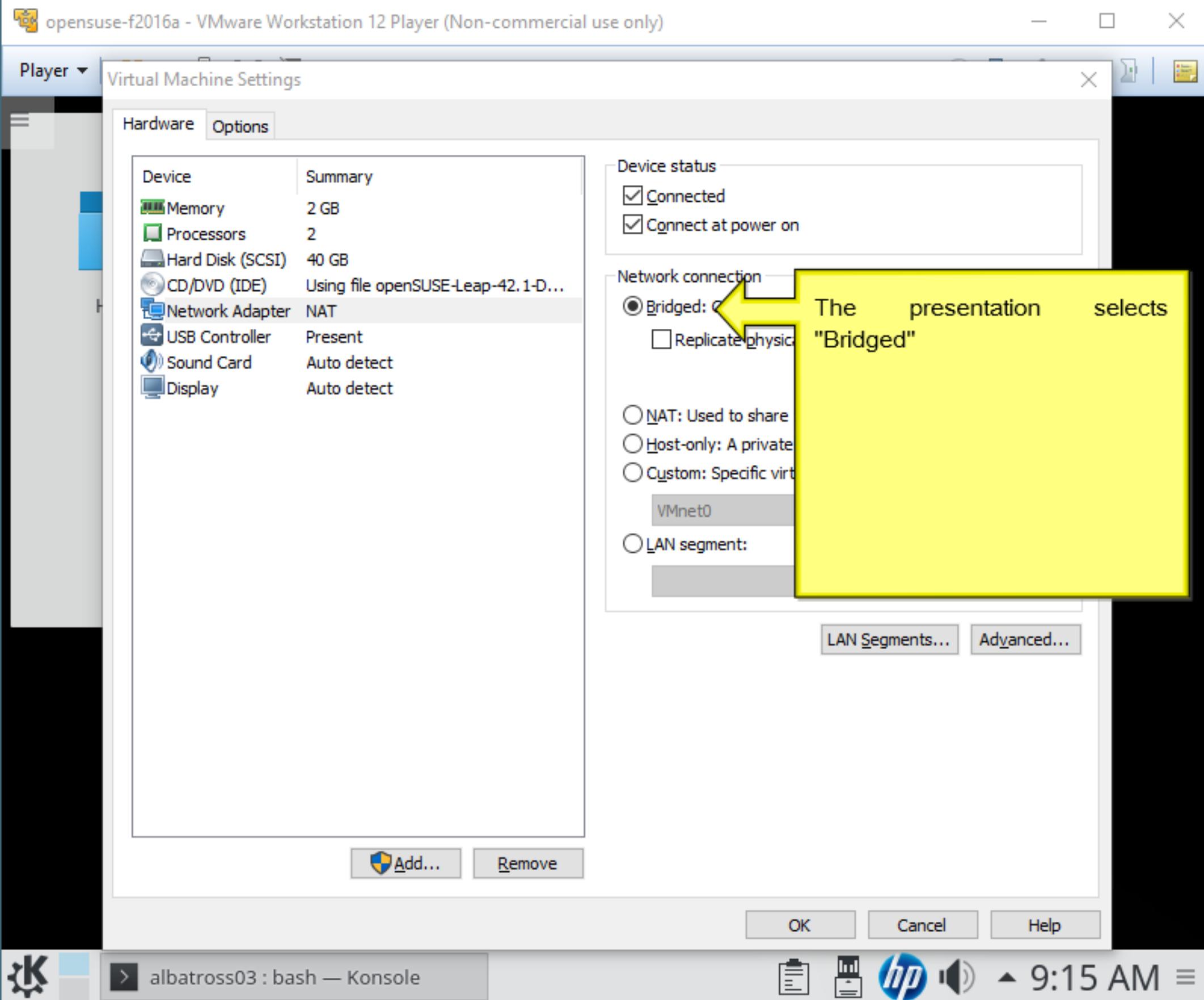
albatross03 : bash

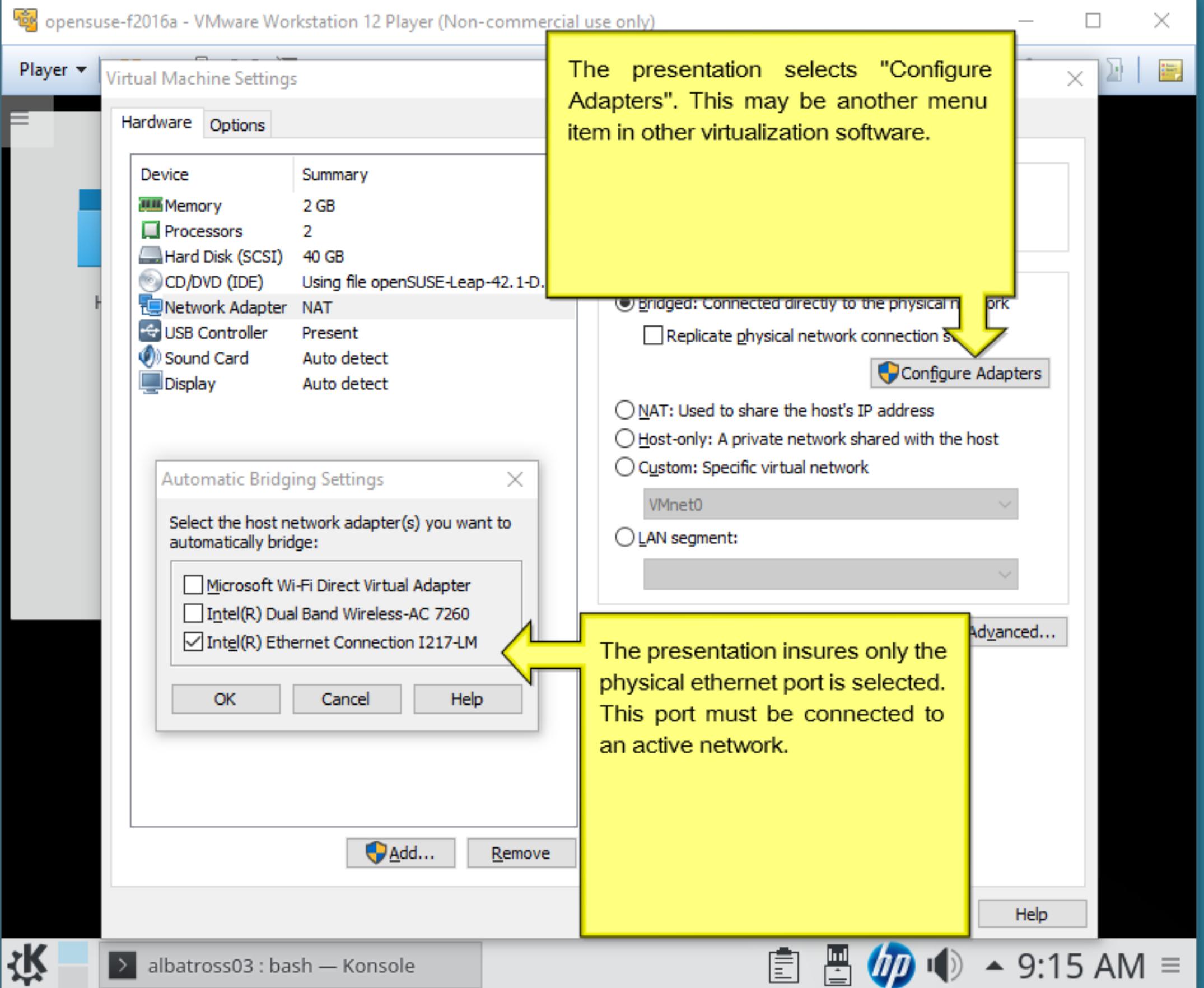
9:14 AM



This is the data file "ip_address01.txt" in "kate".





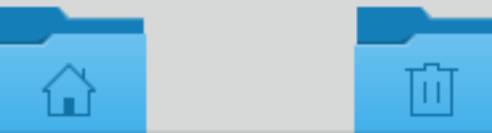


The presentation insures only the physical ethernet port is selected. This port must be connected to an active network.

Player ▾



Desktop Folder



Recent Applications



Recent Documents



Development



Education



Games



Graphics



Internet



Multimedia



Office



Settings



System



Utilities



Search



It isn't always necessary, but the presentation reboots the virtual machine.



9:15 AM

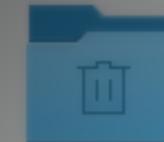
Player |



Desktop Folder



Home



Trash

Rebooting



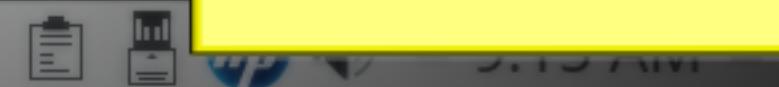
in 27 seconds

Cancel

Reboot

The presentation speeds the process by selecting "Reboot" option.

albatross03 : bash — Konsole

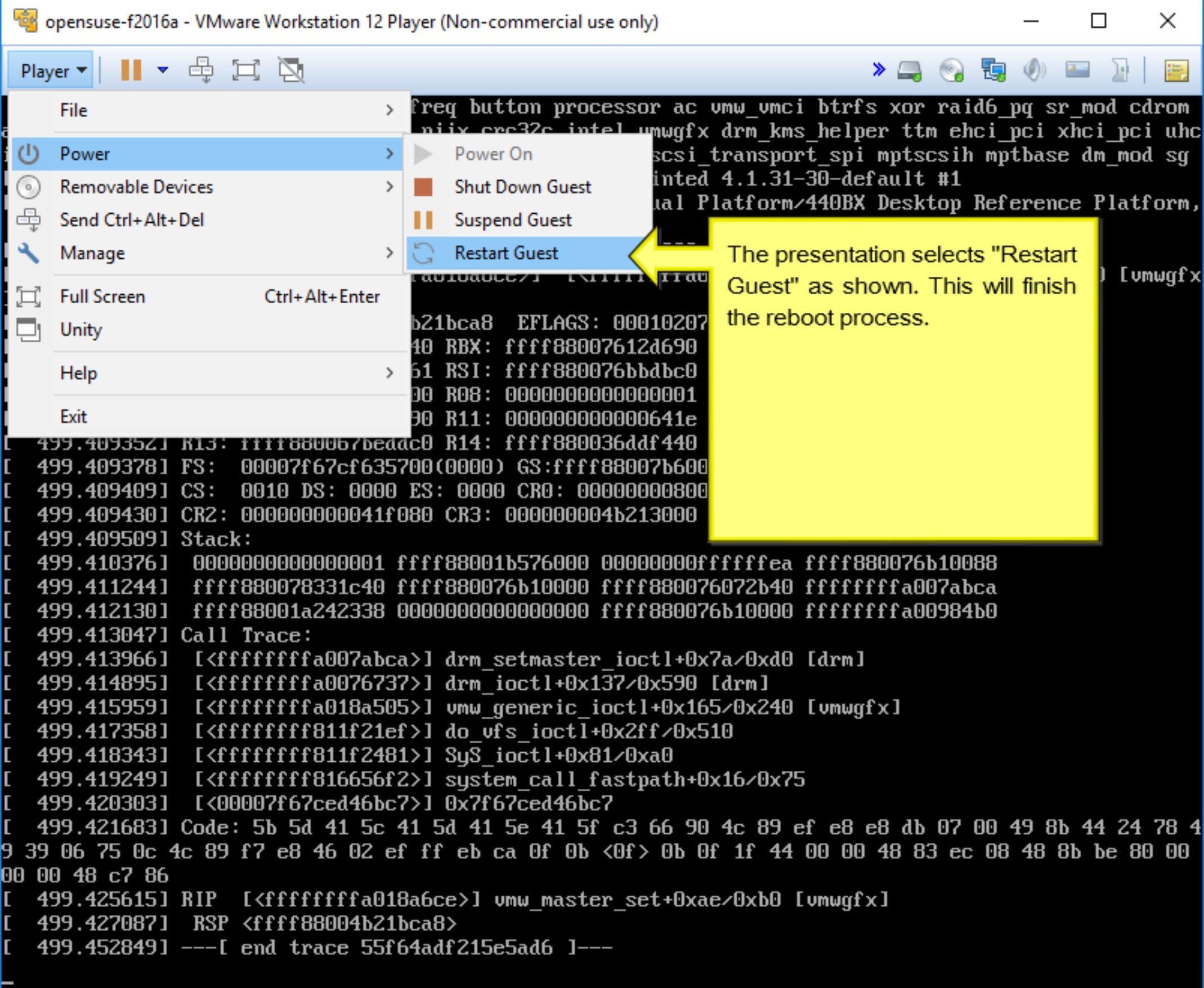


Player | || |



```
battery shpchp i2c_piix4 acpi_cpufreq button processor ac vmw_vmc1 btrfs xor raid6_pq sr_mod cdrom  
ata_generic hid_generic usbhid ata_piix crc32c_intel vmwgfx drm_kms_helper ttm ehci_pci xhci_pci uhc  
i_hcd ehci_hcd xhci_hcd drm usbc core usb_common mptspi scsi_transport_spi mptscsih mptbase dm_mod sg  
[ 499.409078] CPU: 0 PID: 4053 Comm: plymouthd Not tainted 4.1.31-30-default #1  
[ 499.409105] Hardware name: VMware, Inc. VMware Virtual Platform/440BX Desktop Reference Platform,  
BIOS 6.00 07/02/2015  
[ 499.409141] task: ffff88001a2422d0 ti: ffff88004b218000 task.ti: ffff88004b218000  
[ 499.409168] RIP: 0010:[<fffffffffffa018a6ce>] [<fffffffffffa018a6ce>] vmw_master_set+0xae/0xb0 [vmwgfx]  
[ 499.409214] RSP: 0018:ffff88004b21bca8 EFLAGS: 00010207  
[ 499.409233] RAX: ffff880078331c40 RBX: ffff88007612d690 RCX: 0000000000006261  
[ 499.409257] RDX: 0000000000006261 RSI: ffff880076bbdbc0 RDI: ffff880076bbdc48  
[ 499.409283] RBP: ffff880076100000 R08: 0000000000000001 R09: 0000000000000246  
[ 499.409329] R10: 000000000001d890 R11: 000000000000641e R12: ffff88001b576000  
[ 499.409352] R13: ffff880067beddc0 R14: ffff880036ddf440 R15: 0000000000000000  
[ 499.409378] FS: 00007f67cf635700(0000) GS:ffff88007b600000(0000) kn1GS:000000000000  
[ 499.409409] CS: 0010 DS: 0000 ES: 0000 CR0: 0000000080050033  
[ 499.409430] CR2: 00000000041f080 CR3: 000000004b213000 CR4: 00000000001406f0  
[ 499.409509] Stack:  
[ 499.410376] 0000000000000001 ffff88001b576000 00000000fffeaf ffff880076b10088  
[ 499.411244] ffff880078331c40 ffff880076b10000 ffff880076072b40 ffffffff007abca  
[ 499.412130] ffff88001a242338 0000000000000000 ffff880076b10000 ffffffff00984b0  
[ 499.413047] Call Trace:  
[ 499.413966] [<fffffffffffa007abca>] drm_setmaster_ioctl+0x7a/0xd0 [drm]  
[ 499.414895] [<fffffffffffa0076737>] drm_ioctl+0x137/0x590 [drm]  
[ 499.415959] [<fffffffffffa018a505>] vmw_generic_ioctl+0x165/0x240 [vmwgfx]  
[ 499.417358] [<ffffffffff811f21ef>] do_vfs_ioctl+0x2ff/0x510  
[ 499.418343] [<ffffffffff811f2481>] Sy3_ioctl+0x81/0xa0  
[ 499.419249] [<ffffffffff816656f2>] system_call_fastpath+0x16/0x75  
[ 499.420303] [<00007f67ced46bc?>] 0x7f67ced46bc?  
[ 499.421683] Code: 5b 5d 41 5c 41 5d 41 5e 41 5f c3 66 90 4c 89 ef e8 e8 db 07 00 49 8b 44 24 78 4  
9 39 06 75 0c 4c 89 f7 e8 46 02 ef ff eb ca 0f 0b <0f> 0b 0f 1f 44 00 00 48 83 ec 08 48 8b be 80 00  
00 00 48 c7 86  
[ 499.425615] RIP: [<fffffffffffa018a6ce>] vmw_master_set+0xae/0xb0 [vmwgfx]  
[ 499.427087] RSP: <ffff88004b21bca8>  
[ 499.452849] ---[ end trace 55f64adf215e5ad6 ]---
```

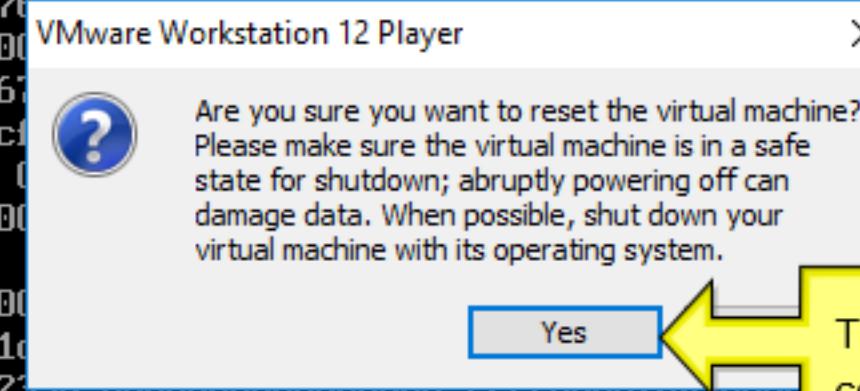
Sometimes the class Virtual Linux system will hang/stop at this screen.



openuse-f2016a - VMware Workstation 12 Player (Non-commercial use only)

Player | || | ☰ | ☱ | ☲ | ☳ | ☴ | ☵ | ☶ | ☷ | ☸ | ☹ | ☺

```
battery shpchp i2c_piix4 acpi_cpufreq button processor ac vmw_vmc1 btrfs xor raid6_pq sr_mod cdrom  
ata_generic hid_generic usbhid ata_piix crc32c_intel vmwgfx drm_kms_helper ttm ehci_pci xhci_pci uhc  
i_hcd ehci_hcd xhci_hcd drm usbc core usb_common mptspi scsi_transport_spi mptscsih mptbase dm_mod sg  
[ 499.409078] CPU: 0 PID: 4053 Comm: plymouthd Not tainted 4.1.31-30-default #1  
[ 499.409105] Hardware name: VMware, Inc. VMware Virtual Platform/440BX Desktop Reference Platform,  
BIOS 6.00 07/02/2015  
[ 499.409141] task: ffff88001a2422d0 ti: ffff88004b218000 task.ti: ffff88004b218000  
[ 499.409168] RIP: 0010:[<fffffffffffa018a6ce>] [<fffffffffffa018a6ce>] vmw_master_set+0xae/0xb0 [vmwgfx]  
[ 499.409214] RSP: 0018:ffff88004b21bca8 EFLAGS: 00010207  
[ 499.409233] RAX: ffff880078331c40 RBX: ffff88007612d690 RCX: 0000000000006261  
[ 499.409257] RDX: 0000000000006261 RSI: ffff880076bbdbc0 RDI: ffff880076bbdc48  
[ 499.409283] RBP: ffff880076420000 RBP: 0000000000000001 RBP: 0000000000000246  
[ 499.409329] R10: 0000000000000000 R10: 001b576000  
[ 499.409352] R13: ffff880061000000 R13: 0000000000000000  
[ 499.409378] FS: 00007f67cf000000 FS: 0000000000000000  
[ 499.409409] CS: 0010 DS: 0010 SS: 0010  
[ 499.409430] CR2: 0000000000000000 CR2: 0000000000000000  
[ 499.409509] Stack:  
[ 499.410376] 0000000000000000 Stack:  
[ 499.411244] ffff880078331c40 Stack:  
[ 499.412130] ffff88001a242350 0000000000000000 111100000100100000  
[ 499.413047] Call Trace:  
[ 499.413966] [<fffffffffffa007abca>] drm_setmaster_ioctl+0x7a/0xd0 [drm]  
[ 499.414895] [<fffffffffffa0076737>] drm_ioctl+0x137/0x590 [drm]  
[ 499.415959] [<fffffffffffa018a505>] vmw_generic_ioctl+0x165/0x240 [vmwgfx]  
[ 499.417358] [<ffffffffff811f21ef>] do_vfs_ioctl+0x2ff/0x510 [vfs]  
[ 499.418343] [<ffffffffff811f2481>] SyS_ioctl+0x81/0xa0 [kernel]  
[ 499.419249] [<ffffffffff816656f2>] system_call_fastpath+0x16/0x7 [kernel]  
[ 499.420303] [<00007f67ced46bc?>] 0x7f67ced46bc?  
[ 499.421683] Code: 5b 5d 41 5c 41 5d 41 5e 41 5f c3 66 90 4c 89  
9 39 06 75 0c 4c 89 f7 e8 46 02 ef ff eb ca 0f 0b <0f> 0b 0f 1f 44  
00 00 48 c7 86  
[ 499.425615] RIP: [<fffffffffffa018a6ce>] vmw_master_set+0xae/0xb0 [vmwgfx]  
[ 499.427087] RSP: <ffff88004b21bca8>  
[ 499.452849] ---[ end trace 55f64adf215e5ad6 ]---
```



The presentation selects "Yes" to continue.

Player ▾



9:17 AM

Friday, September 23, 2016



albatross02



albatross03



albatross04



albatross05



albatr

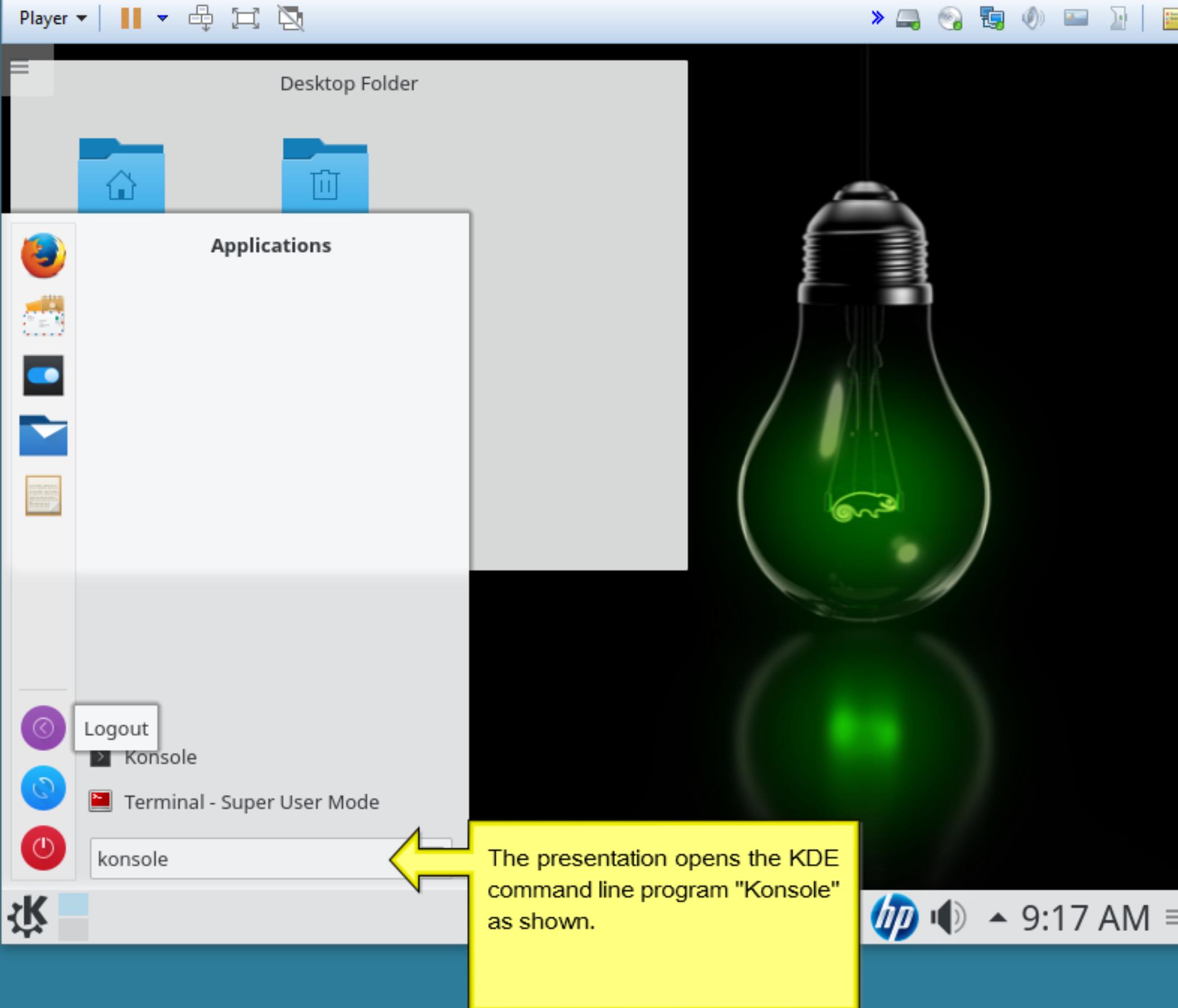
Plasma 5

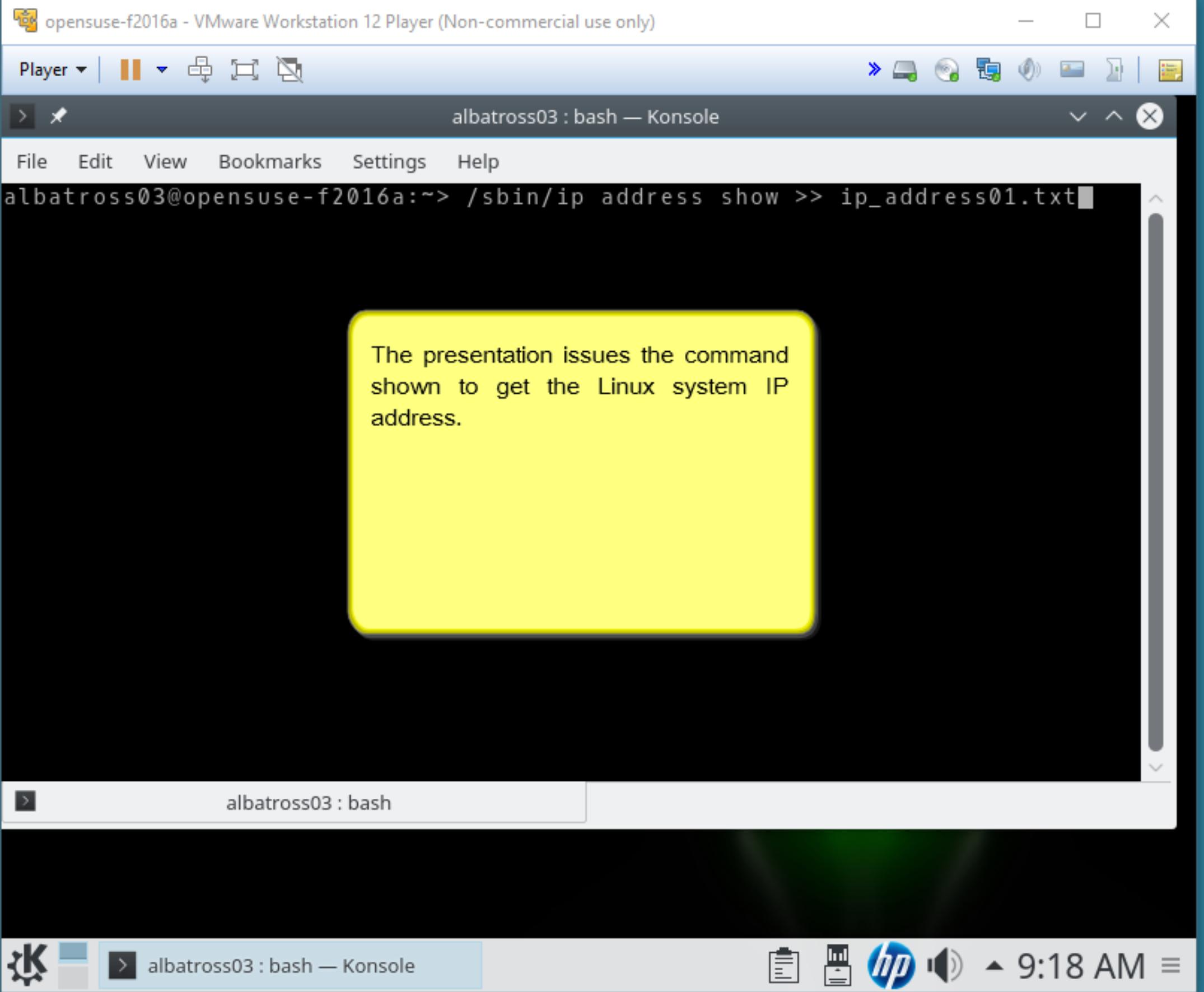
Password

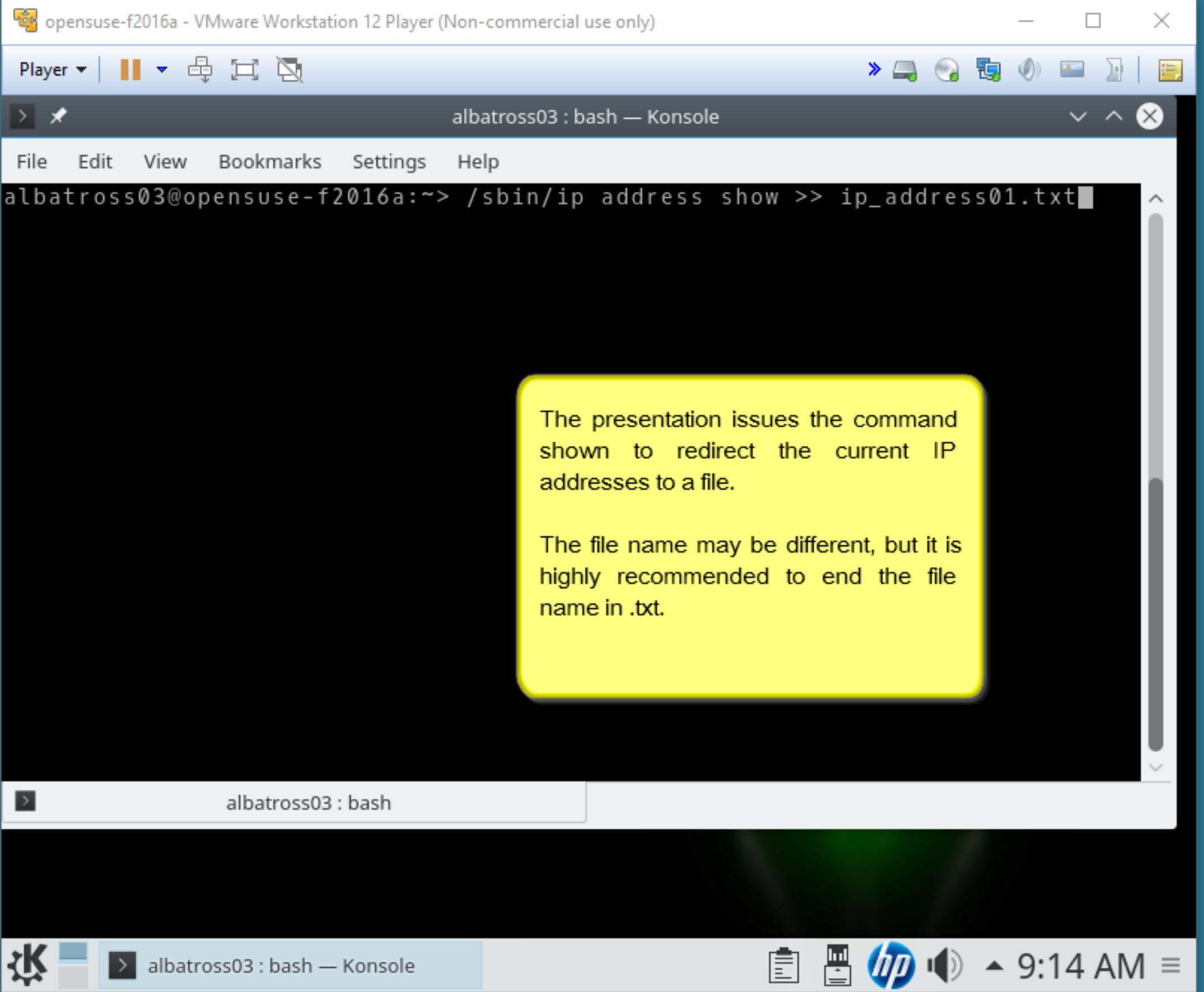
Login

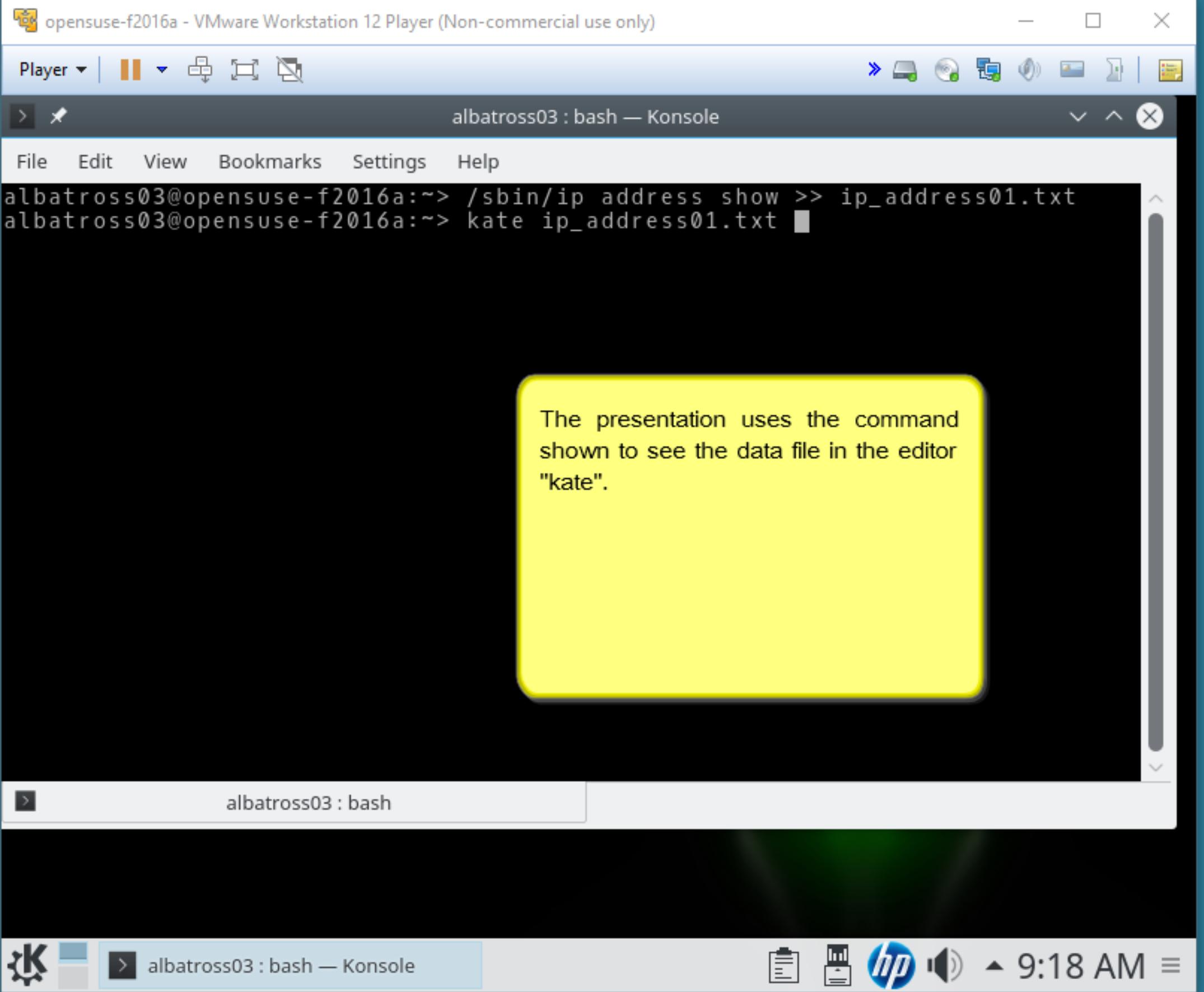
The presentation logs into the virtual machine.











albatross03 : bash

9:18 AM

