

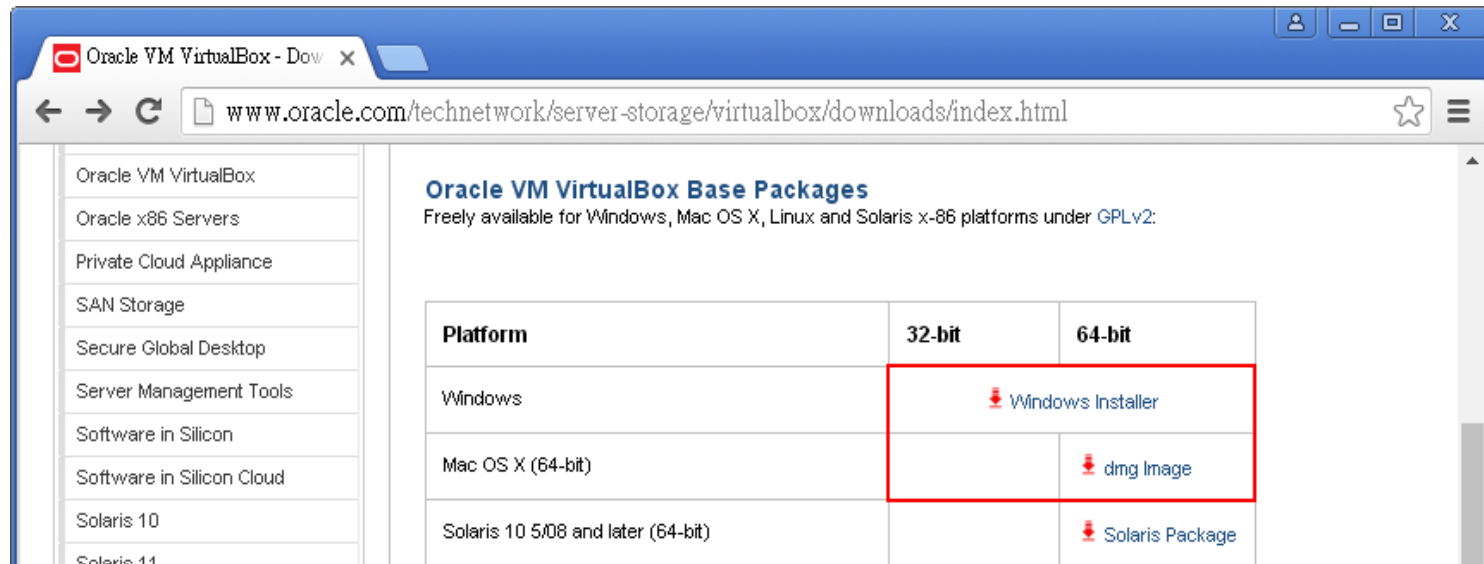
# Software Installation Guide

## *Smart AP Control (SAPC)*



# Environment Settings - VM

- ◆ Download and install Oracle VM VirtualBox from Internet  
[Download Link](http://www.oracle.com/technetwork/server-storage/virtualbox/downloads/index.html) (<http://www.oracle.com/technetwork/server-storage/virtualbox/downloads/index.html>)



The screenshot shows a web browser window displaying the Oracle VM VirtualBox Base Packages download page. The page title is "Oracle VM VirtualBox Base Packages" and it states "Freely available for Windows, Mac OS X, Linux and Solaris x-86 platforms under GPLv2:". A table lists the available packages for different platforms and architectures. The "Windows" row is highlighted with a red border, and the "Windows Installer" link is also highlighted with a red border.

Platform	32-bit	64-bit
Windows	<a href="#">Windows Installer</a>	
Mac OS X (64-bit)		<a href="#">dmg Image</a>
Solaris 10 5/08 and later (64-bit)		<a href="#">Solaris Package</a>

# Environment Settings - SAPC

- ◆ Download Planet Smart AP Control application (SAPC\_v1.0b170414.ova)

## [Download Link](#)

(<http://www.planet.com.tw/en/support/download.php?type1=4&model=48976&type=8184#list>)

### Download Center

In download area, you can find drivers, firmware updates, other software and documentation for your PLANET products.

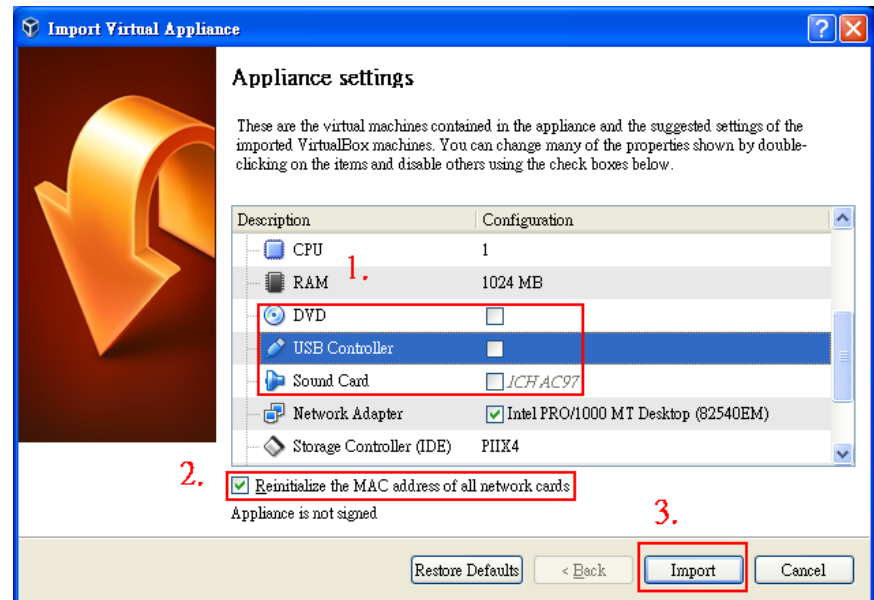
<p><b>Product Category</b></p> <p>Wireless LAN ▼</p> <p><b>Product Model</b></p> <p>Smart AP Control ▼</p> <p><b>Type of File</b></p> <p>Utility ▼ <input type="button" value="GO &gt;&gt;"/></p>	<p><b>Keyword</b></p> <p>Keyword Search <input type="button" value="GO &gt;&gt;"/></p> <p>For example: "WDRT-730"</p>
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### Utility

Date	Model	Version	Description	Download
Apr 14, 17	Smart AP Control	1.0b170414	<b>[Software AP Controller]</b> Initial release.	

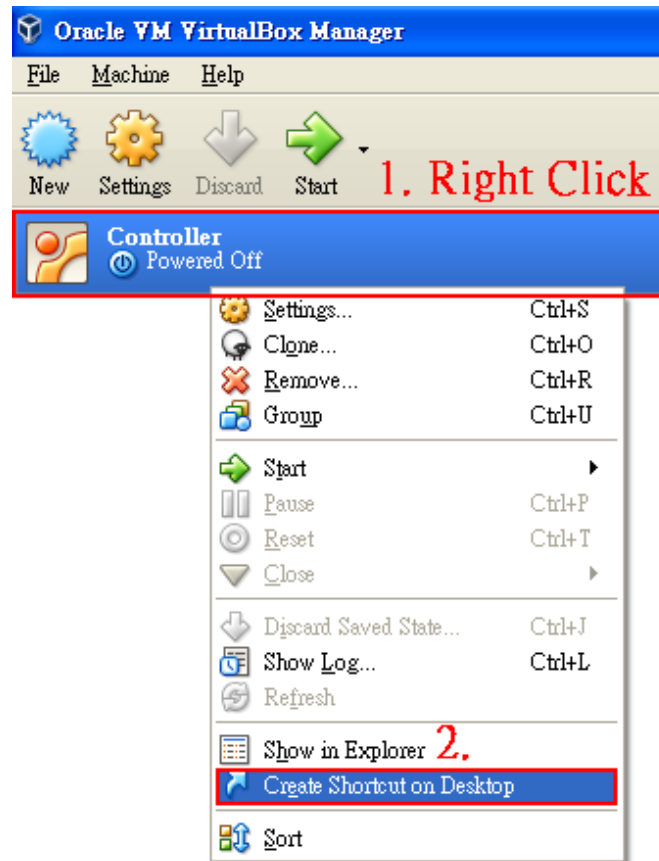
# Import Smart AP Control

- ◆ Double click **SAPC\_v1.0b170414.ova** (or import it through the VM VirtualBox Manager)
- ◆ Uncheck the following items if existed
  - ✓ DVD
  - ✓ USB Controller
  - ✓ Sound Card
- ◆ Select
  - ✓ Reinitialize the MAC ...



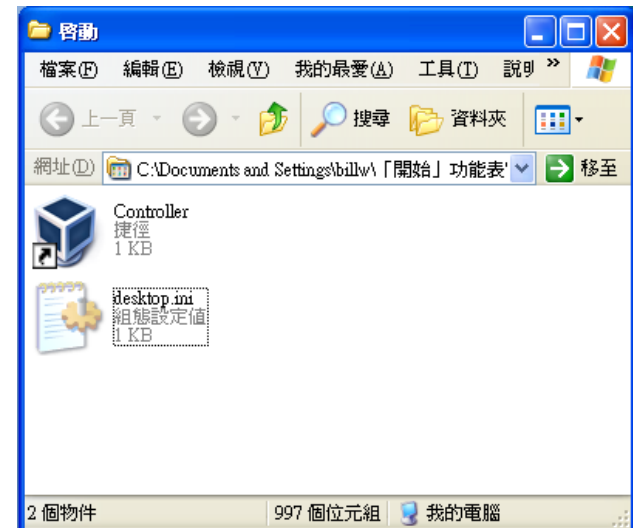
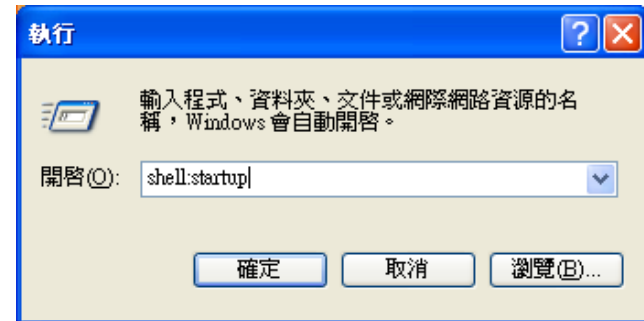
# Setup application auto start-up

- ◆ Create shortcut on Desktop



# Create shortcut

- ◆ Copy the shortcut to Start-up Folder
  - ✓ Copy the shortcut on Desktop
  - ✓ Start → Run
  - ✓ Input “**shell:startup**” , then press OK
  - ✓ Paste the copied shortcut here



# Setup VM Network Adapter

- ◆ Please ensure your network adapter 1 connected to a DHCP enabled network (Managed APs included).

The screenshot displays the Oracle VM VirtualBox Manager interface. The main window shows the 'SAPC' VM settings. The 'Network' tab is selected in the left sidebar. The 'Adapter 1' settings are visible, with the following configurations:

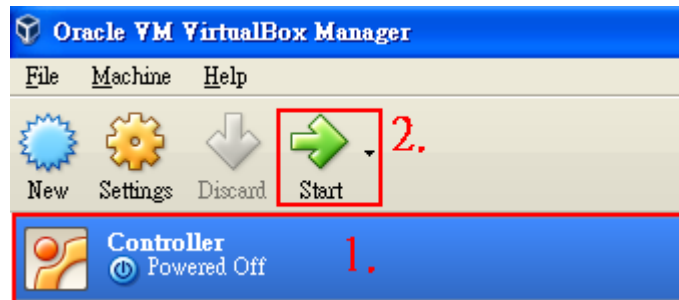
- Enable Network Adapter
- Attached to: Bridged Adapter
- Name: Realtek PCIe GBE Family Controller
- Advanced: Realtek PCIe GBE Family Controller

Red annotations and arrows indicate the following steps:

1. Select VM (points to the SAPC VM in the Machine list)
2. Click Setting (points to the Settings icon in the Machine toolbar)
3. Modify Network (points to the Network tab in the left sidebar)
4. Enable Network Adapter (points to the checked checkbox)
5. Use Bridge Adapter (points to the Bridged Adapter dropdown menu)
6. Select the out-going network card (points to the Realtek PCIe GBE Family Controller dropdown menu)
7. OK (points to the OK button at the bottom of the settings window)

# Run Smart AP Control application

- ◆ Select the VM
- ◆ Press "Start"





# Run Smart AP Control application

- ◆ When the "Controller login:" appeared, not require enter any account, please wait until it get the DHCP IP address.

```
Controller login: [ 80.216910] rc.local[940]:  
[ 80.217048] rc.local[940]:  
[ 80.217132] rc.local[940]:  
[ 80.217276] rc.local[940]:  
[ 80.217355] rc.local[940]:  
[ 80.217441] rc.local[940]:  
[ 80.217561] rc.local[940]:  
[ 80.217643] rc.local[940]:  
[ 80.217716] rc.local[940]:  
[ 80.217831] rc.local[940]:  
[ 80.217917] rc.local[940]:  
[ 80.217992] rc.local[940]:  
[ 80.218104] rc.local[940]:  
[ 80.218180] rc.local[940]:  
[ 80.218254] rc.local[940]:  
[ 80.218367] rc.local[940]:  
[ 80.218447] rc.local[940]: Current interface configuration:  
[ 80.218534] rc.local[940]: inet addr:192.168.0.115  
[ 80.218664] rc.local[940]: Bcast:192.168.0.255  
[ 80.218757] rc.local[940]: Mask:255.255.255.0  
[ 80.218839] rc.local[940]:
```

When "Controller login" appeared, please wait until it get the DHCP IP.

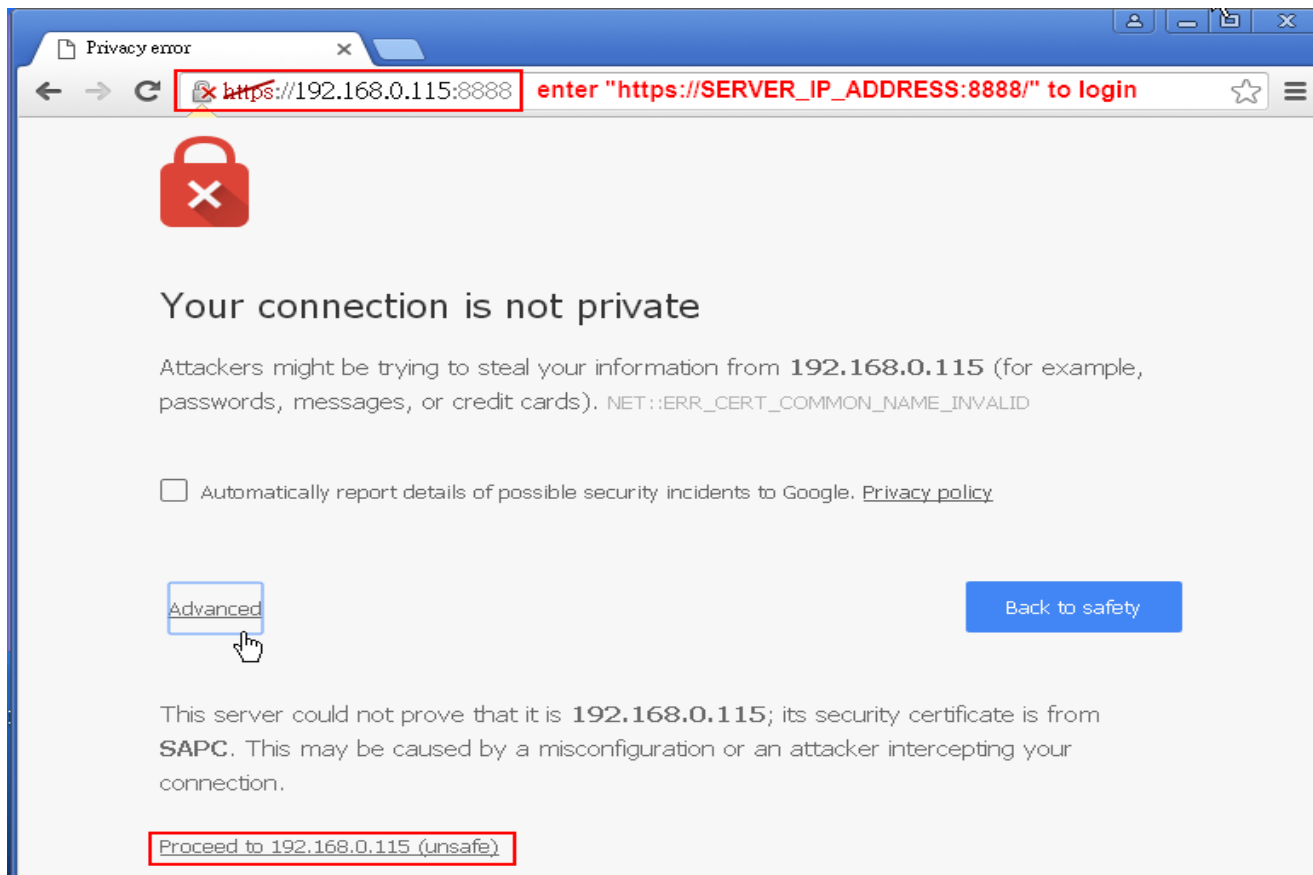
↓

use the assigned DHCP ip to login.  
e.g. <https://192.168.0.115:8888/>

- ◆ If above information disappeared (enter screen saver mode), press "Enter" can show the IP again.

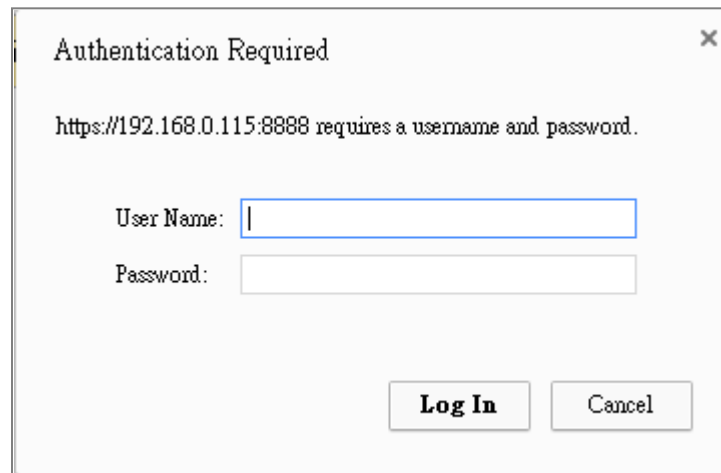
# Login Smart AP Control

- ◆ Open Chrome to login the Smart AP Control.
- ◆ Please use Chrome to get fully supported.



# Login Smart AP Control

- ◆ Username: admin
- ◆ Password: admin



Authentication Required ×

https://192.168.0.115:8888 requires a username and password.

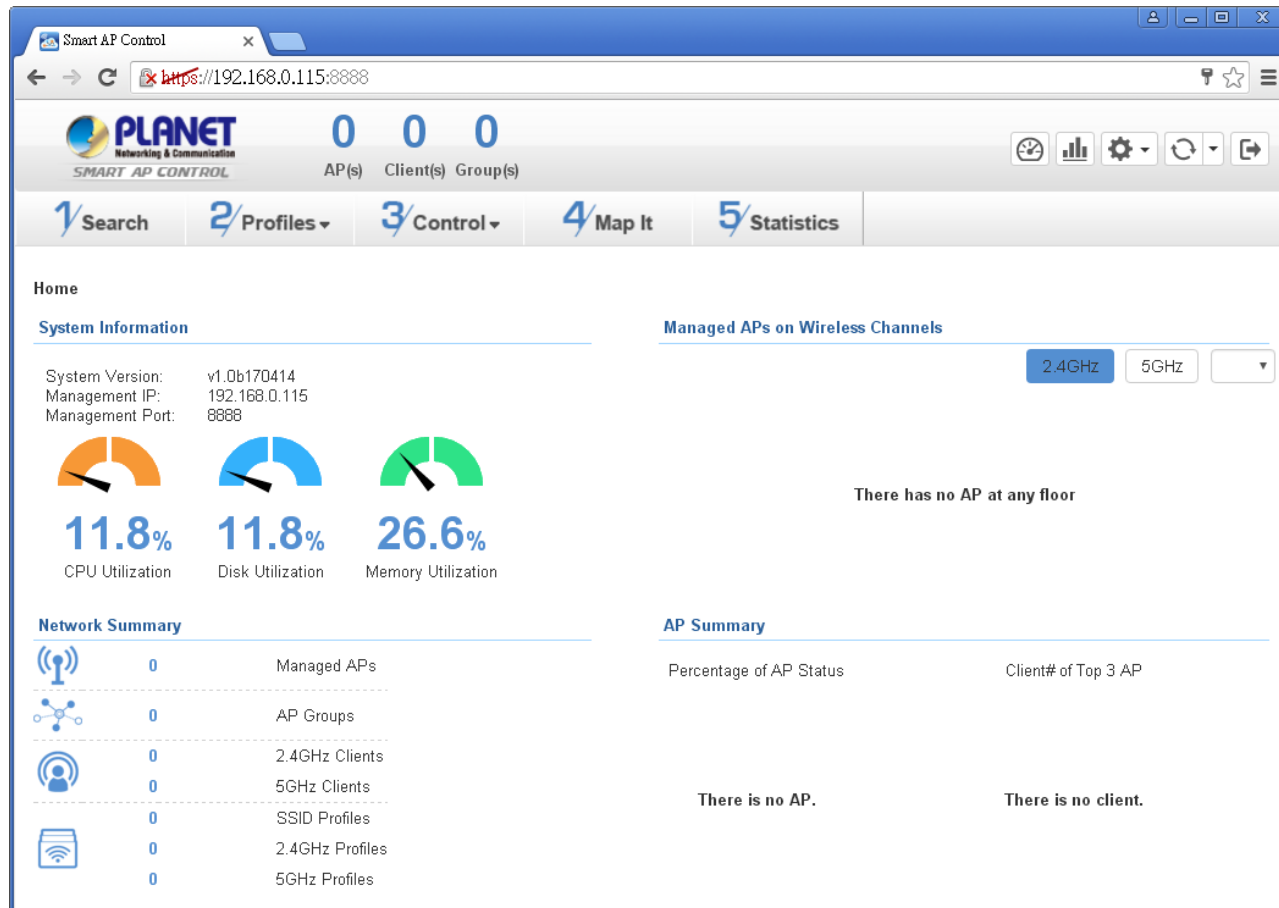
User Name:

Password:

**Log In** Cancel

# Login Smart AP Control – Successful login

- ◆ Default Dashboard displayed, please go to “1/Search” to find the managed APs and continue other settings.



The screenshot shows the Smart AP Control web interface. The browser address bar displays `https://192.168.0.115:8888`. The interface includes a navigation menu with five items: 1/Search, 2/Profiles, 3/Control, 4/Map It, and 5/Statistics. The main content area is divided into several sections:

- System Information:**
  - System Version: v1.0b170414
  - Management IP: 192.168.0.115
  - Management Port: 8888
- Managed APs on Wireless Channels:**
  - Buttons for 2.4GHz and 5GHz.
  - Message: "There has no AP at any floor"
- Network Summary:**

	0	Managed APs
	0	AP Groups
	0	2.4GHz Clients
	0	5GHz Clients
	0	SSID Profiles
	0	2.4GHz Profiles
	0	5GHz Profiles
- AP Summary:**
  - Percentage of AP Status
  - Client# of Top 3 AP
  - Message: "There is no AP."
  - Message: "There is no client."
- Home Section:**
  - System Information
  - Managed APs on Wireless Channels
  - Network Summary
  - AP Summary

At the top of the dashboard, there are three large '0' indicators for AP(s), Client(s), and Group(s). Below these are three gauge charts showing utilization: CPU Utilization (11.8%), Disk Utilization (11.8%), and Memory Utilization (26.6%).

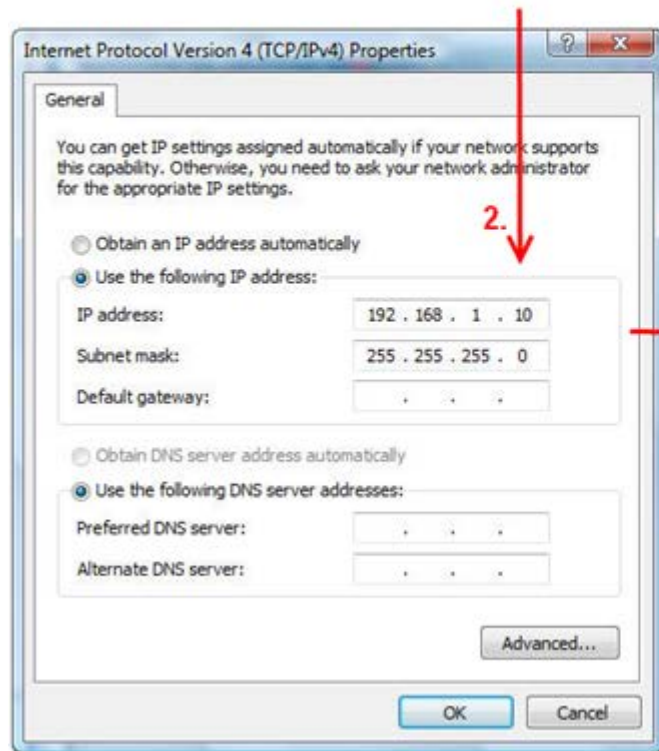
# Appendix-1: Check Network Status

- ◆ If DHCP failed, the VM shows the follow information.

```
Controller login: [ 115.964390] rc.local[849]: Wait for dhcp server. It will wait about 5 minites.  
[ 115.964408] rc.local[849]: If the dhcp is failed, this server will use static IP Address
```

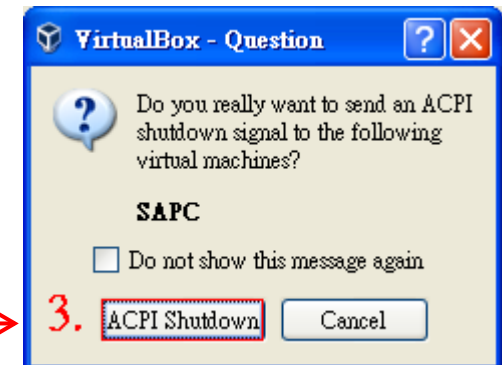
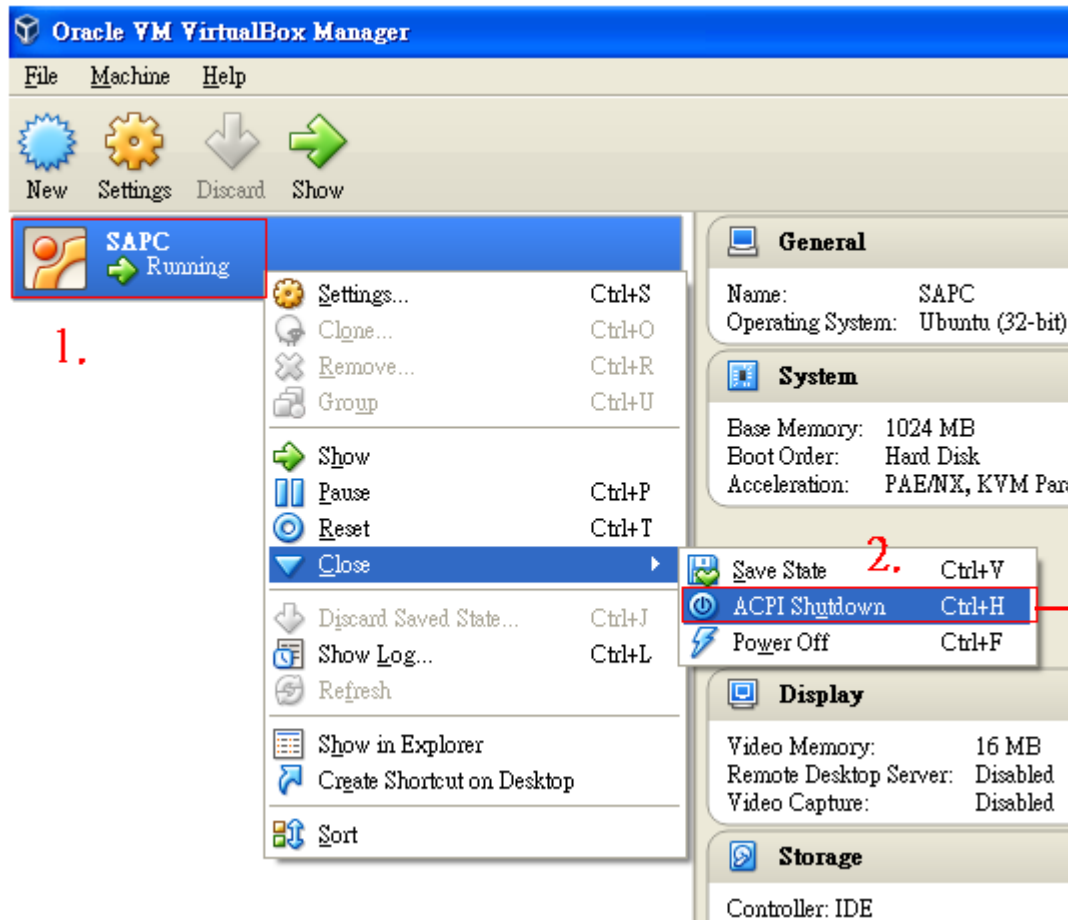
```
DHCP failed, set to static ip  
Current interface configuration:  
inet addr:192.168.1.100  
Bcast:192.168.1.255  
Mask:255.255.255.0
```

1. If get DHCP failed, you must use static IP to login Smart AP Control.  
But the Network adapter must also configured to static IP (e.g. 192.168.1.x, x can be 1~254 except 100)



# Appendix-2: How to shutdown the VM

- ◆ Do Not select "Power Off" to shutdown the VM, otherwise, it will caused system abnormal at next restart.



1.

2.

3.



# ACTIVATING IP POWER