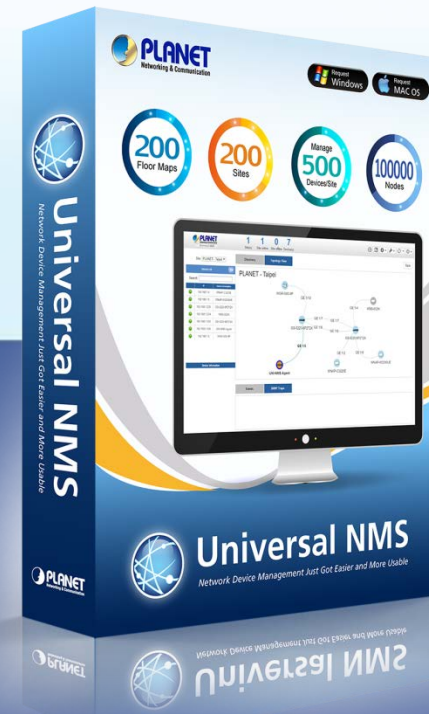


# Software Installation Guide & Quick User Guide

**PLANET UNI-NMS**

**Universal Network Management Software**



Node Discovery



Topology View



Site Mgmt



Event Report



Floor Map



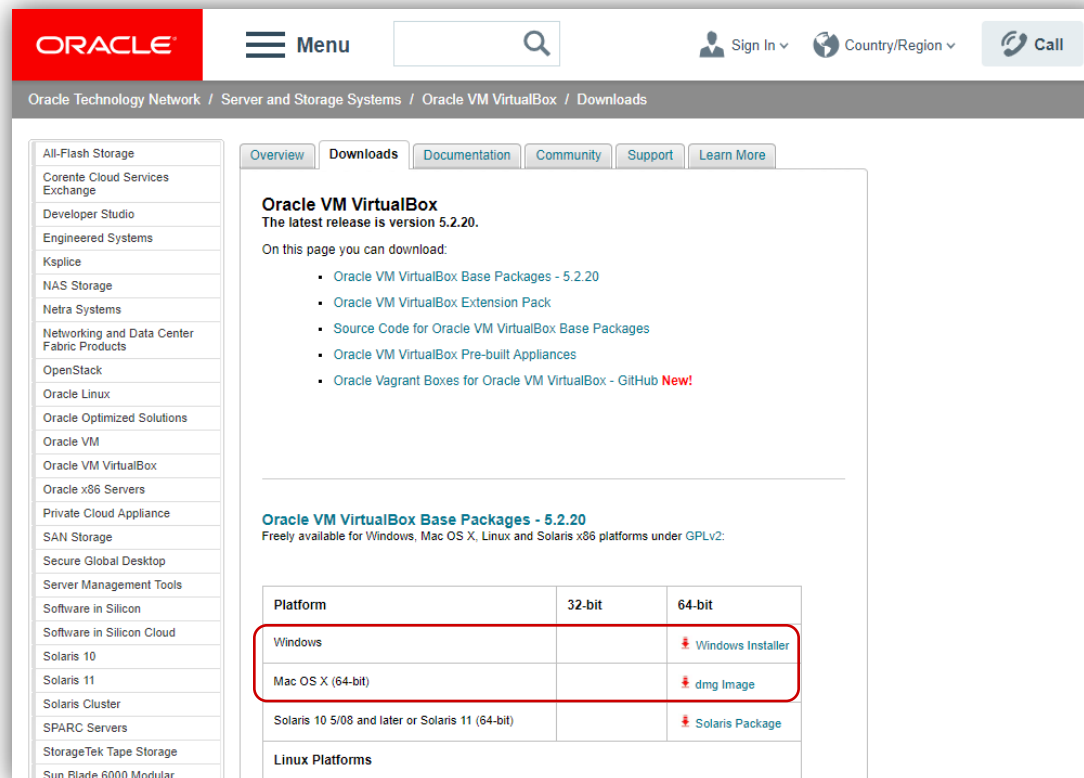
Run on VBox



# Installing VM VirtualBox

- ◆ Download to 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 the Oracle VM VirtualBox Downloads page. The page has a red Oracle logo at the top left, a navigation menu, and a search bar. The main content area is titled "Oracle VM VirtualBox" and states "The latest release is version 5.2.20." Below this, it lists the available downloads:

- Oracle VM VirtualBox Base Packages - 5.2.20
- Oracle VM VirtualBox Extension Pack
- Source Code for Oracle VM VirtualBox Base Packages
- Oracle VM VirtualBox Pre-built Appliances
- Oracle Vagrant Boxes for Oracle VM VirtualBox - GitHub **New!**

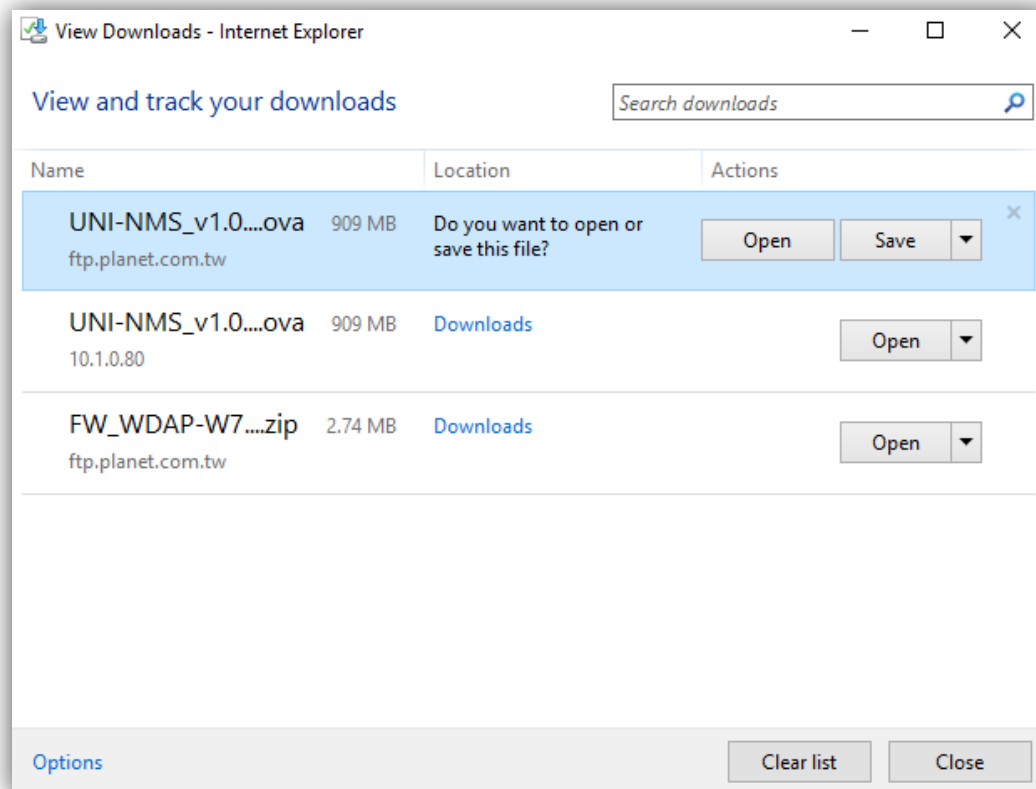
Below the list, there is a section for "Oracle VM VirtualBox Base Packages - 5.2.20" which states "Freely available for Windows, Mac OS X, Linux and Solaris x86 platforms under GPLv2:". A table is provided to show the download links for different platforms:

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 or Solaris 11 (64-bit)		<a href="#">Solaris Package</a>
Linux Platforms		

# Installing UNI-MNS

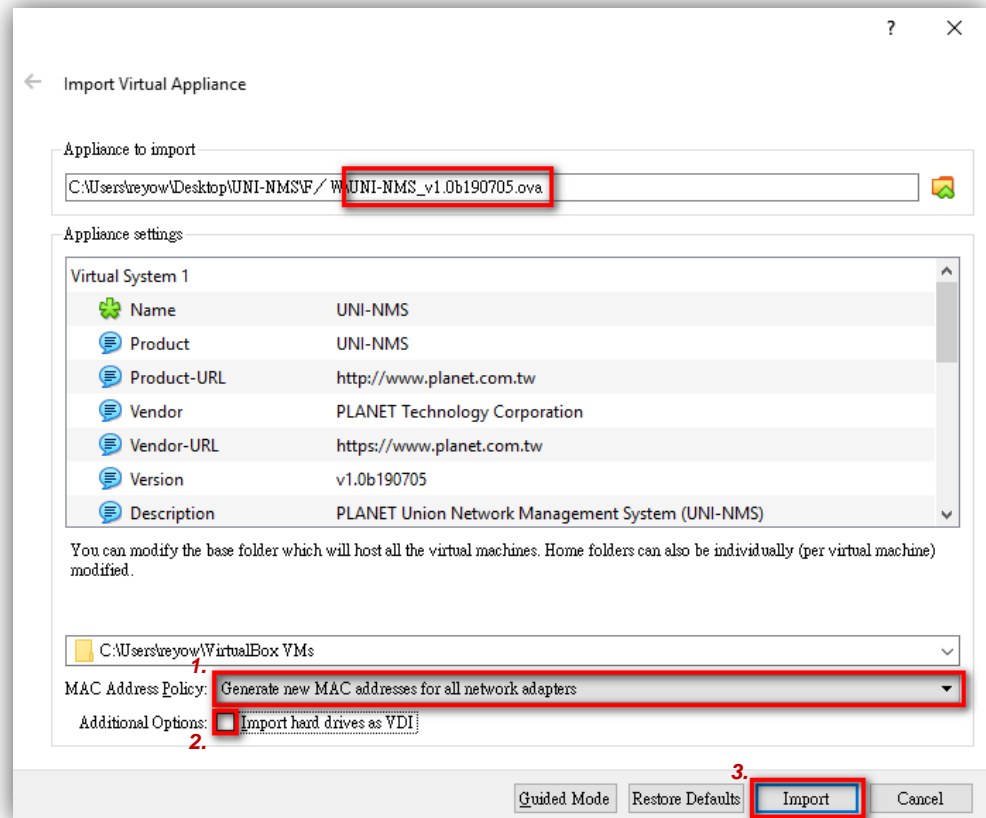
- ◆ Select items from the menus to download UNI-NMS (UNI-NMS\_v1.0b19705.ova.zip).

## Download Link



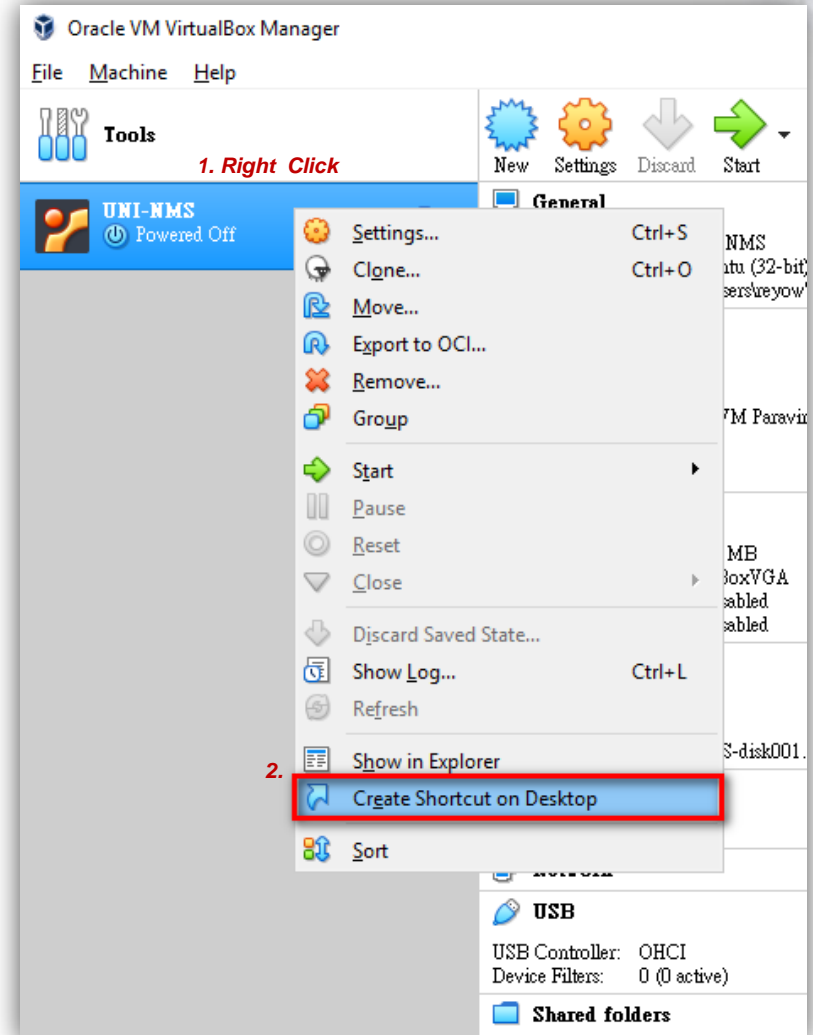
# Importing UNI-NMS Software

- ◆ Double-click “UNI-NMS\_v1.0b190705.ova” to import (or import it through the VM VirtualBox Manager).
- ◆ Uncheck the following items if existed.
  - ✓ USB Controller
  - ✓ DVD
  - ✓ Sound Card
- ◆ Select
  - ✓ Reinitialize the MAC ...



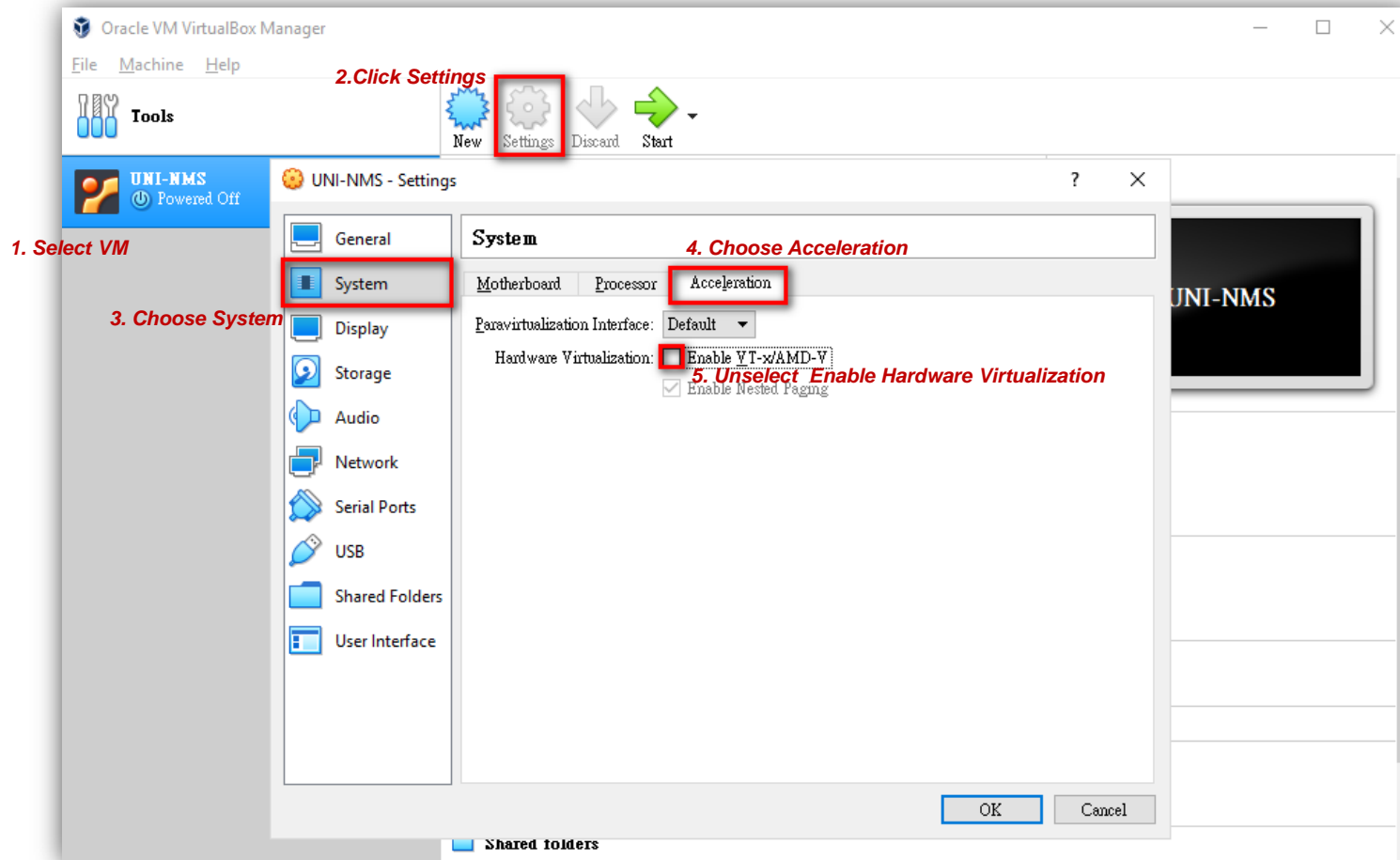
# How to Set Up the Software

- ◆ Right-click “UNI-NMS”.
- ◆ Select “Create Shortcut on Desktop”.



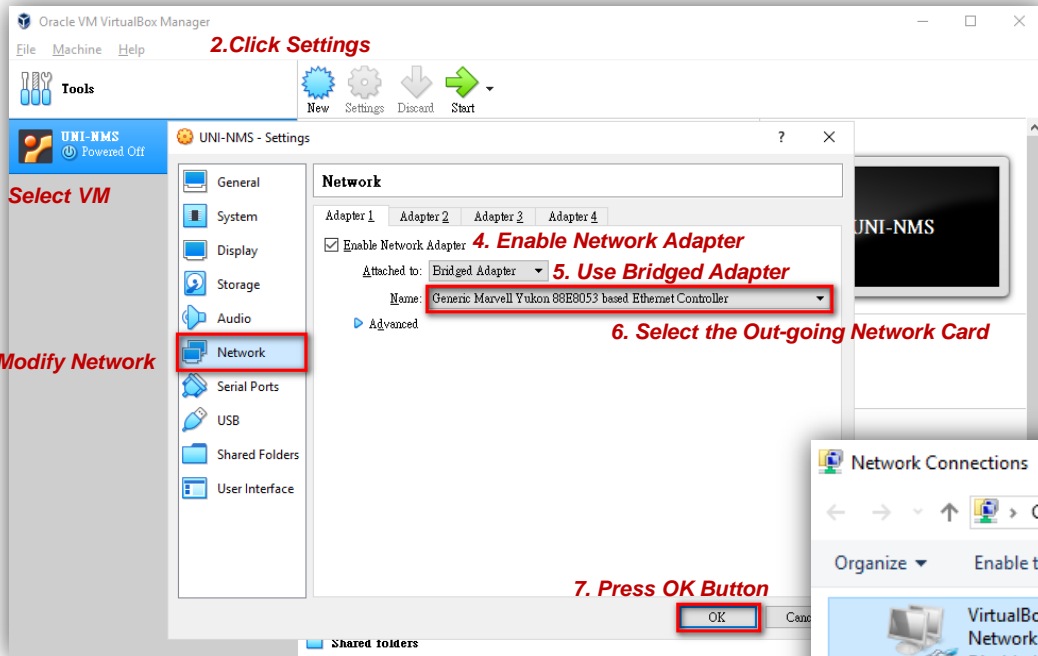
# Setting Up VM Network Adapter

- ◆ **Unselect Enable Hardware Virtualization.**



# Setting Up VM Network Adapter

- ◆ Please ensure your Network Adapter 1 is connected to the local network (Managed devices included).



1. Select VM

2. Click Settings

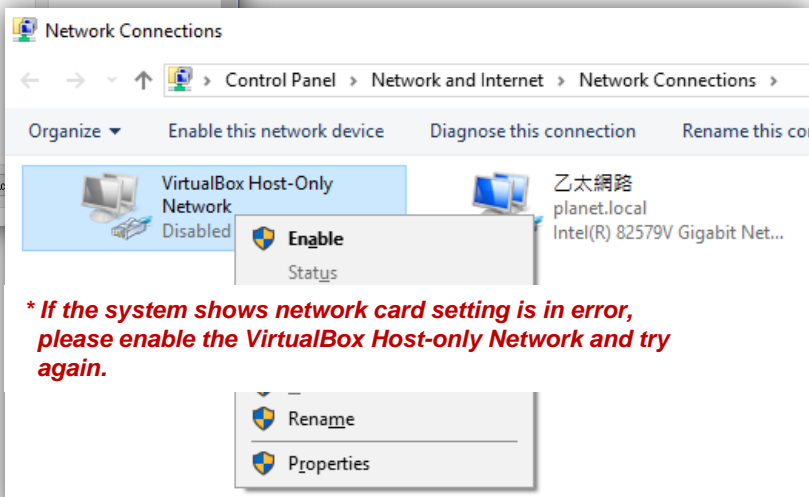
3. Modify Network

4. Enable Network Adapter

5. Use Bridged Adapter

6. Select the Out-going Network Card

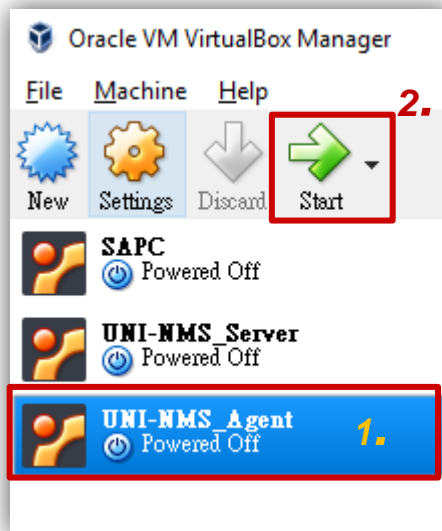
7. Press OK Button



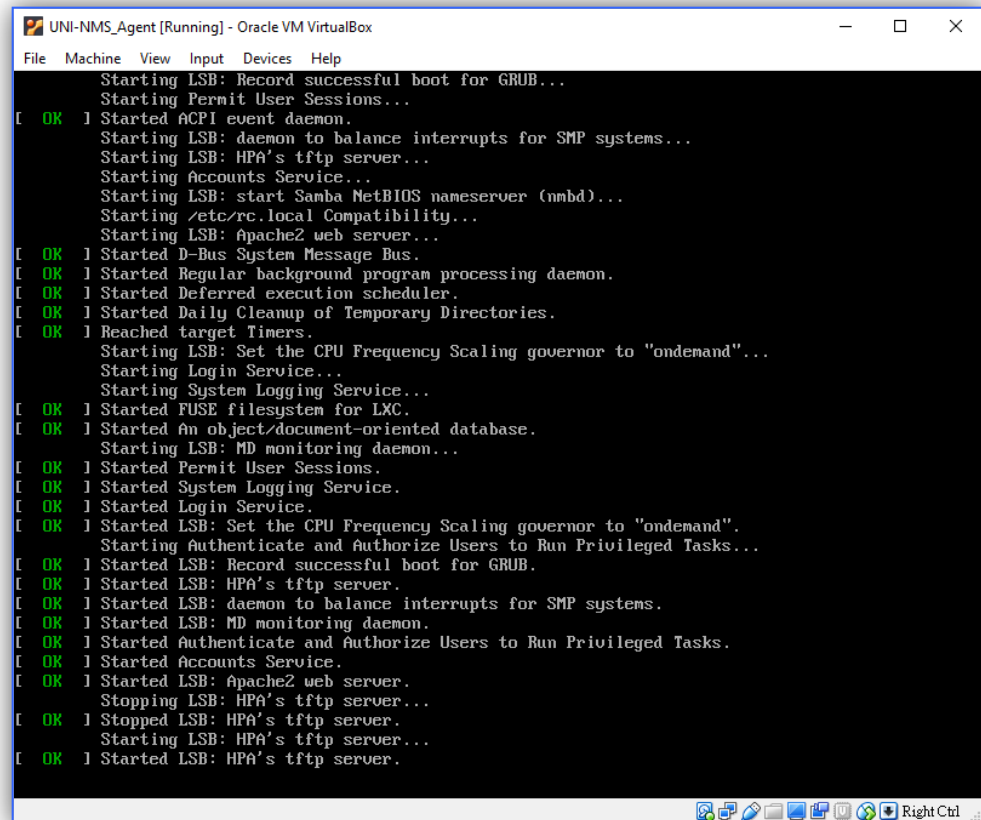
\* If the system shows network card setting is in error, please enable the VirtualBox Host-only Network and try again.

# Running UNI-NMS Application

- ◆ Select the VM.
- ◆ Press "Start" to run the UNI-NMS.



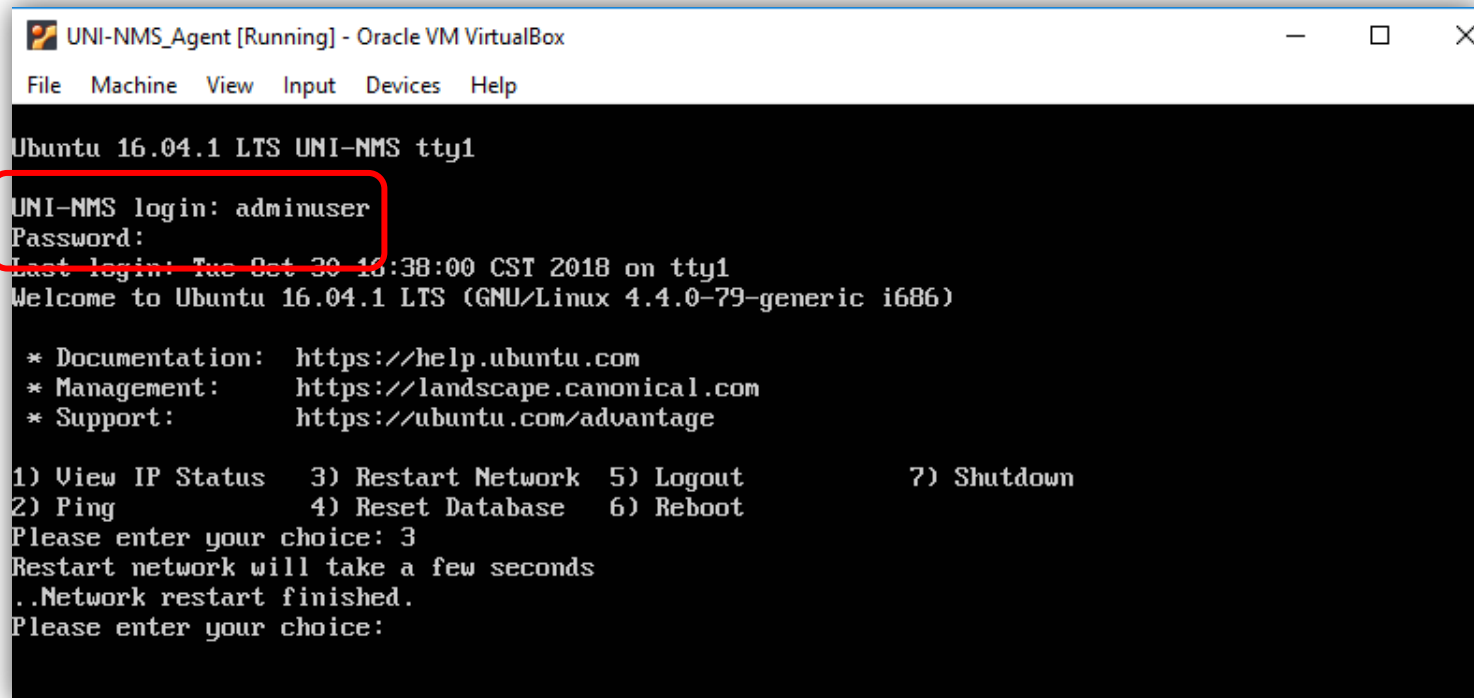
\*Press the setting button to define the General Name of VM.





# Running UNI-NMS Application

- ◆ When the “UNI-NMS login” appears, please enter user login account “adminuser”, and password “adminuser”.



```
UNI-NMS_Agent [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

Ubuntu 16.04.1 LTS UNI-NMS tty1
UNI-NMS login: adminuser
Password:
Last login: Tue Oct 30 16:38:00 CST 2018 on tty1
Welcome to Ubuntu 16.04.1 LTS (GNU/Linux 4.4.0-79-generic i686)

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:        https://ubuntu.com/advantage

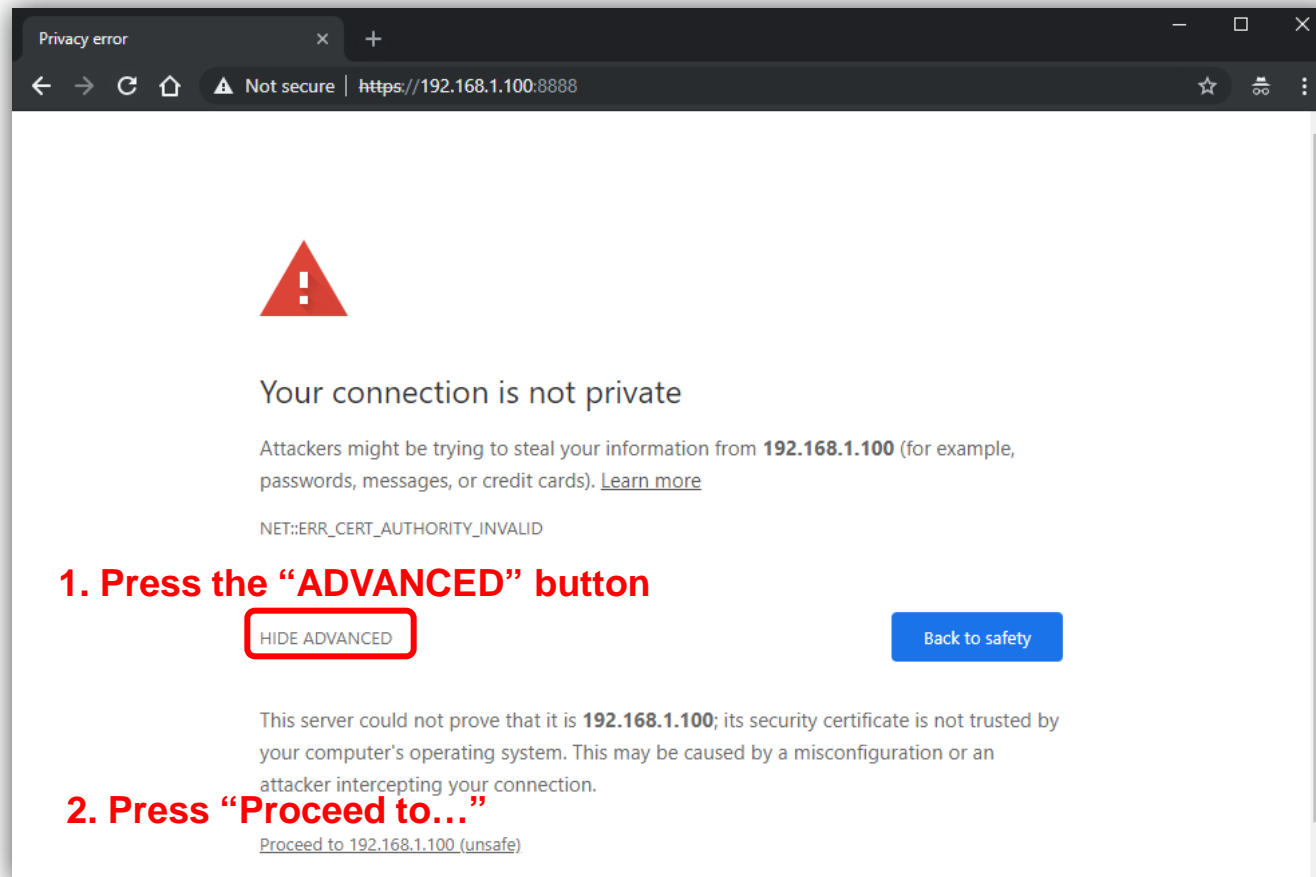
1) View IP Status   3) Restart Network   5) Logout           7) Shutdown
2) Ping             4) Reset Database   6) Reboot

Please enter your choice: 3
Restart network will take a few seconds
..Network restart finished.
Please enter your choice:
```

- ◆ When the “preferred command” appears, please enter “No.3” to restart network command. (It will not be necessary if you cannot be connected to UNI-NMS Web UI.)

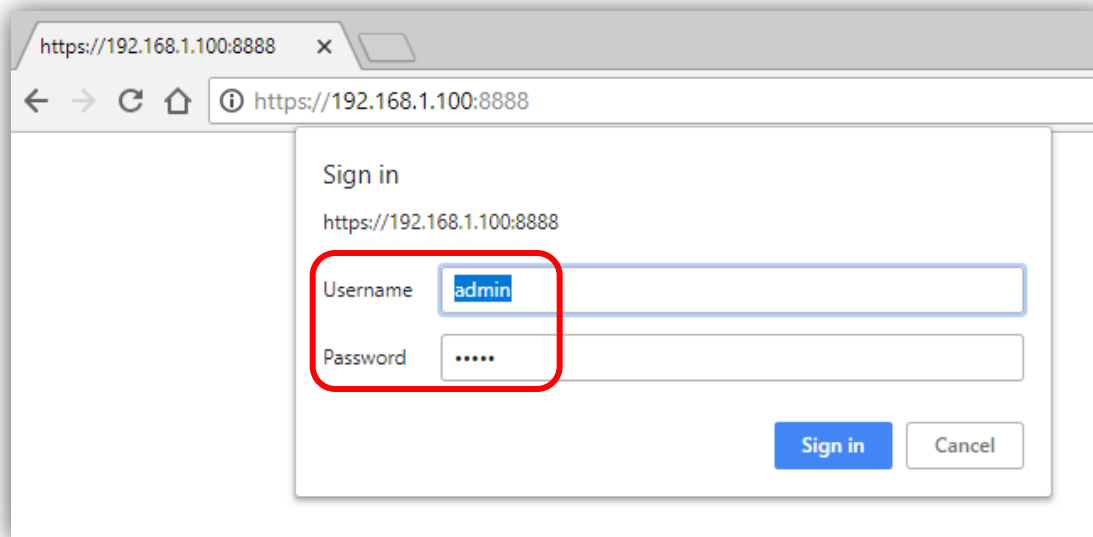
# Logging in UNI-NMS

- ◆ Open Chrome to log in the UNI-NMS.
- ◆ Please use Chrome to get fully supported. (UI Resolution 1280 x 768)



# Logging in UNI-NMS

- ◆ Username: admin
- ◆ Password: admin



Sign in

https://192.168.1.100:8888

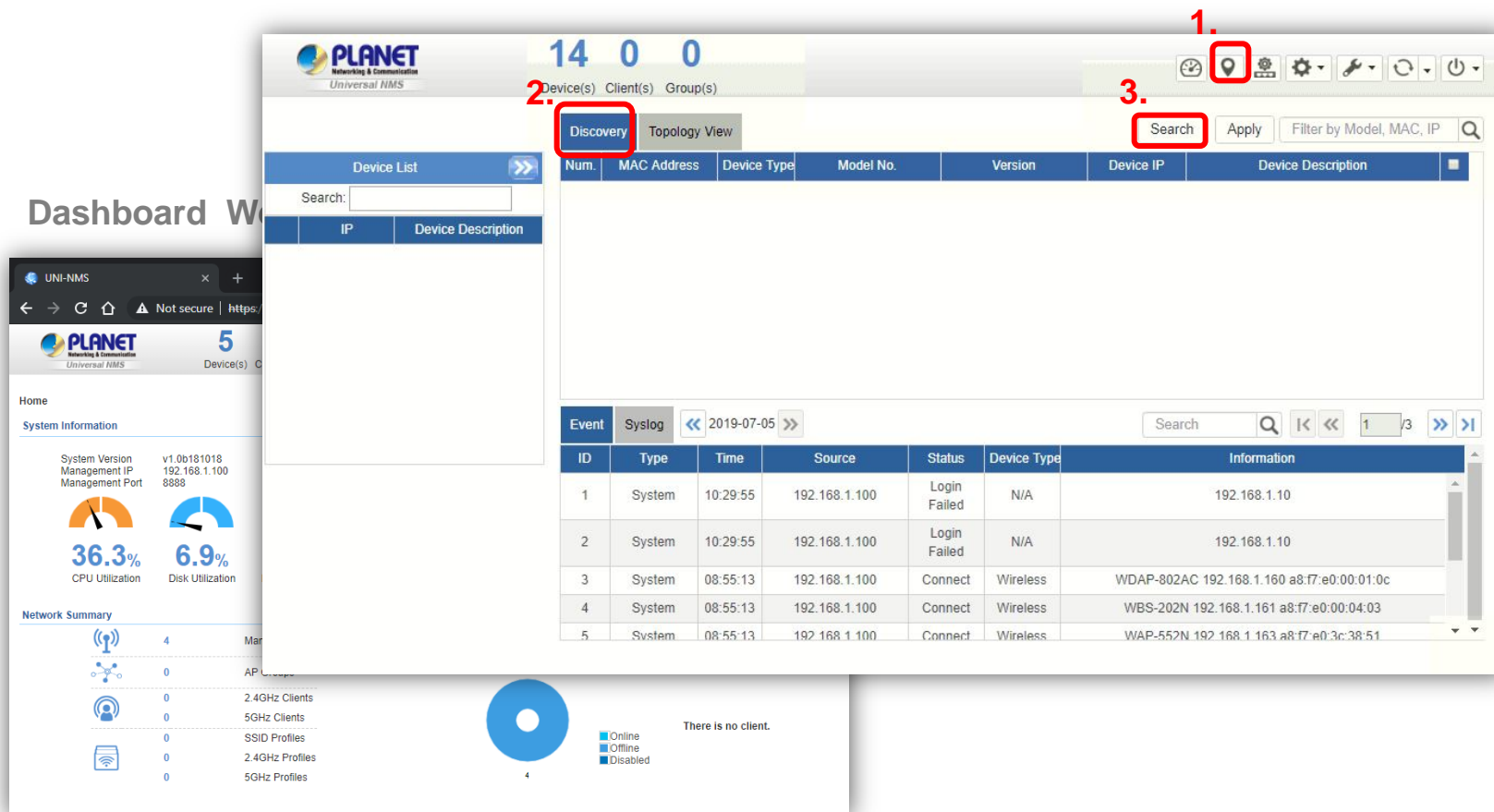
Username

Password

Sign in Cancel

# Logging in UNI-NMS and Discovery

- On the dashboard, press the “Domain” icon (No. 1) , and then press Discovery (No. 2) and Search (No. 3) to find the managed APs and continue other settings.



**Dashboard Widgets:**

- System Information:**
  - System Version: v1.0b181018
  - Management IP: 192.168.1.100
  - Management Port: 8888
  - CPU Utilization: 36.3%
  - Disk Utilization: 6.9%
- Network Summary:**
  - Managed Devices: 4
  - APs: 0
  - 2.4GHz Clients: 0
  - 5GHz Clients: 0
  - SSID Profiles: 0
  - 2.4GHz Profiles: 0
  - 5GHz Profiles: 0

**Discovery Process:**

- Click the **Domain** icon (No. 1) in the top right corner.
- Click the **Discovery** button (No. 2) in the top navigation bar.
- Click the **Search** button (No. 3) to find the managed APs.

**Event Log:**

ID	Type	Time	Source	Status	Device Type	Information
1	System	10:29:55	192.168.1.100	Login Failed	N/A	192.168.1.10
2	System	10:29:55	192.168.1.100	Login Failed	N/A	192.168.1.10
3	System	08:55:13	192.168.1.100	Connect	Wireless	WDAP-802AC 192.168.1.160 a8:f7:e0:00:01:0c
4	System	08:55:13	192.168.1.100	Connect	Wireless	WBS-202N 192.168.1.161 a8:f7:e0:00:04:03
5	System	08:55:13	192.168.1.100	Connect	Wireless	WAP-552N 192.168.1.163 a8:f7:e0:3c:38:51

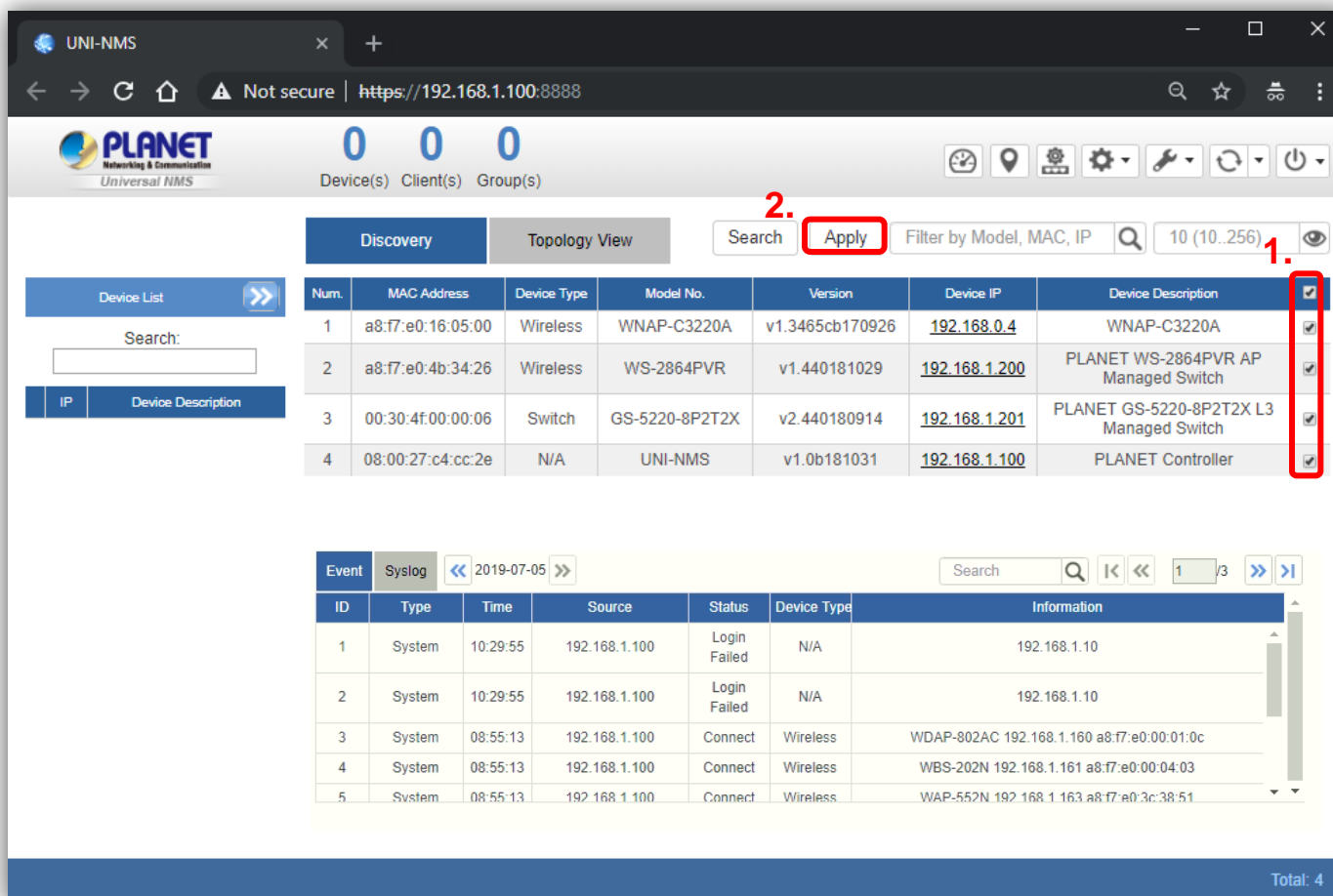
**Client Status:**

There is no client.

- Online
- Offline
- Disabled

# UNI-NMS – Adding Devices to List

- ◆ Select devices (No. 1) by checking the boxes, and then press the “Apply” icon (No. 2) to add devices to management list.



UNI-NMS

Not secure | https://192.168.1.100:8888

0 0 0  
Device(s) Client(s) Group(s)

Discovery Topology View

Search Apply Filter by Model, MAC, IP 10 (10.256)

Device List

Search:

IP Device Description

Num.	MAC Address	Device Type	Model No.	Version	Device IP	Device Description	
1	a8:f7:e0:16:05:00	Wireless	WNAP-C3220A	v1.3465cb170926	192.168.0.4	WNAP-C3220A	<input checked="" type="checkbox"/>
2	a8:f7:e0:4b:34:26	Wireless	WS-2864PVR	v1.440181029	192.168.1.200	PLANET WS-2864PVR AP Managed Switch	<input checked="" type="checkbox"/>
3	00:30:4f:00:00:06	Switch	GS-5220-8P2T2X	v2.440180914	192.168.1.201	PLANET GS-5220-8P2T2X L3 Managed Switch	<input checked="" type="checkbox"/>
4	08:00:27:c4:cc:2e	N/A	UNI-NMS	v1.0b181031	192.168.1.100	PLANET Controller	<input checked="" type="checkbox"/>

Event Syslog 2019-07-05

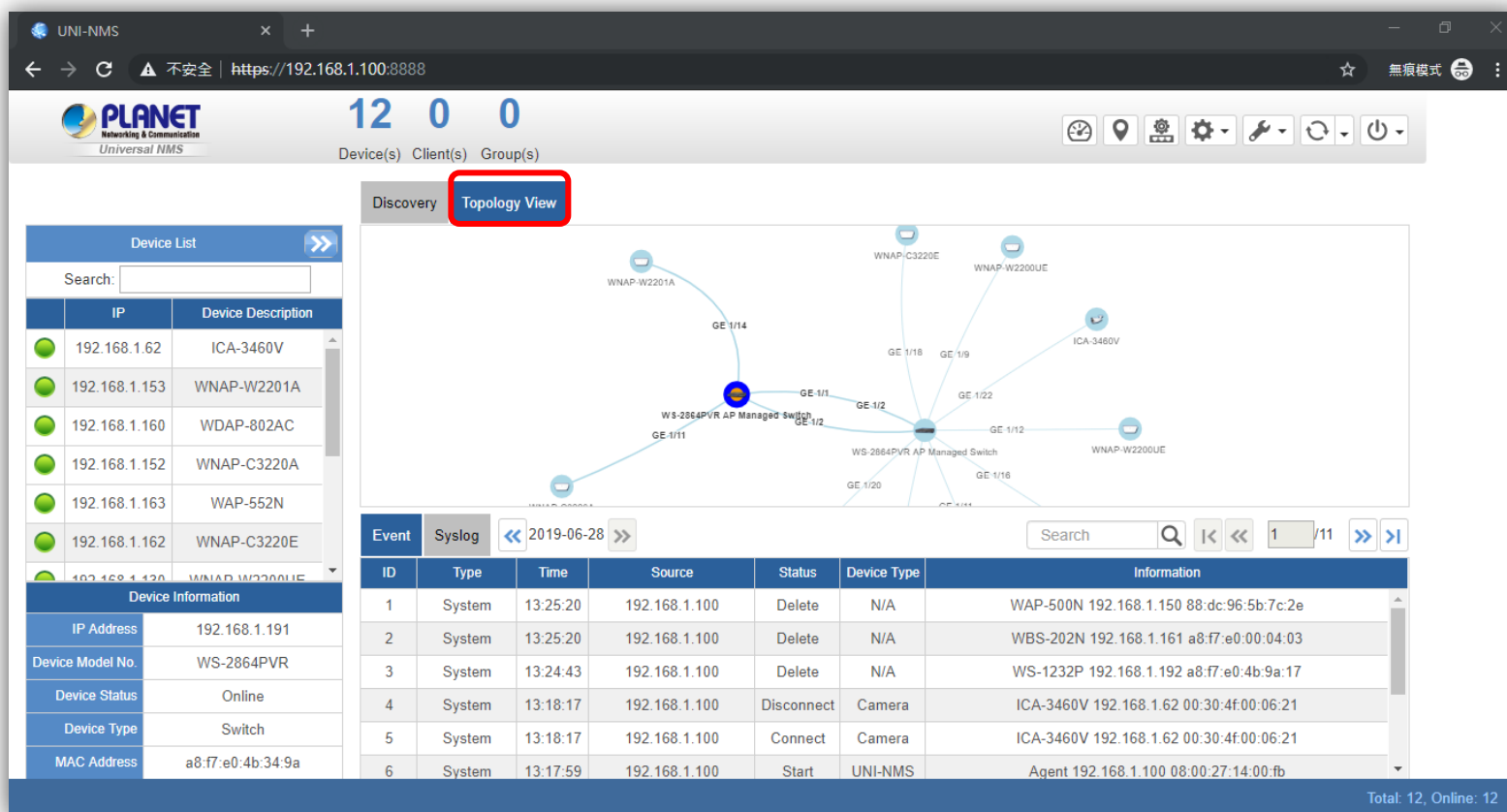
Search

ID	Type	Time	Source	Status	Device Type	Information
1	System	10:29:55	192.168.1.100	Login Failed	N/A	192.168.1.10
2	System	10:29:55	192.168.1.100	Login Failed	N/A	192.168.1.10
3	System	08:55:13	192.168.1.100	Connect	Wireless	WDAP-802AC 192.168.1.160 a8:f7:e0:00:01:0c
4	System	08:55:13	192.168.1.100	Connect	Wireless	WBS-202N 192.168.1.161 a8:f7:e0:00:04:03
5	System	08:55:13	192.168.1.100	Connect	Wireless	WAP-552N 192.168.1.163 a8:f7:e0:3c:38:51

Total: 4

# UNI-NMS – Device List and Topology View

- ◆ Press “**Topology View**” to see the domain network topology after one minute.
- ※If you do not see the topology, please check devices to enable SNMP and LLDP function.



The screenshot displays the UNI-NMS web interface. The top navigation bar includes the PLANET logo, a status bar with '12 0 0' (Device(s), Client(s), Group(s)), and a toolbar with various icons. The main content area is divided into two sections: 'Discovery' and 'Topology View'. The 'Topology View' section shows a network diagram with nodes representing devices and their interconnections. The 'Device List' section on the left provides a table of discovered devices.

**Device List**

IP	Device Description
192.168.1.62	ICA-3460V
192.168.1.153	WNAP-W2201A
192.168.1.160	WDAP-802AC
192.168.1.152	WNAP-C3220A
192.168.1.163	WAP-552N
192.168.1.162	WNAP-C3220E
192.168.1.130	WNAP-W2200UE

**Device Information**

IP Address	192.168.1.191
Device Model No.	WS-2864PVR
Device Status	Online
Device Type	Switch
MAC Address	a8:f7:e0:4b:34:9a

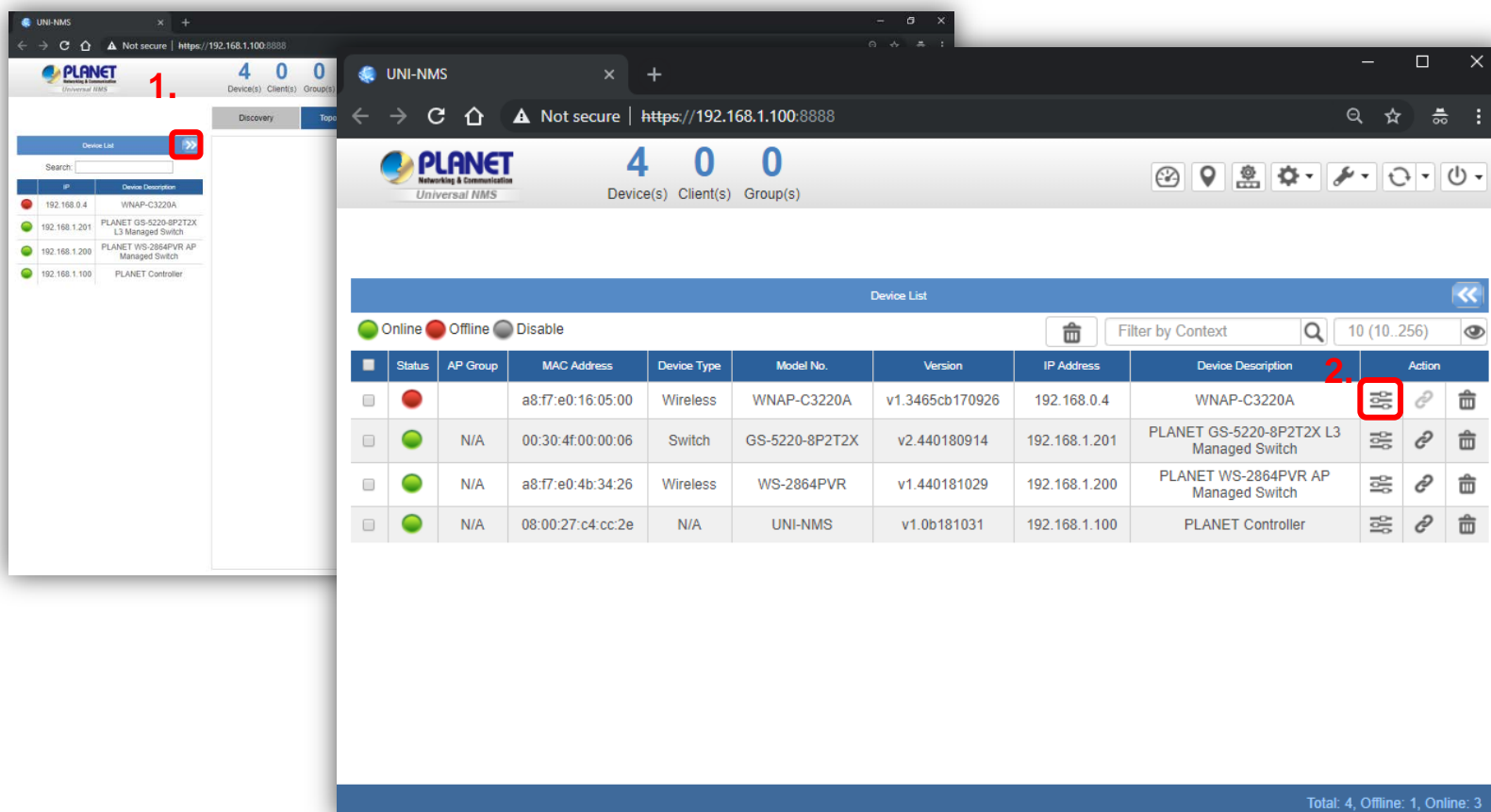
**Event Log**

ID	Type	Time	Source	Status	Device Type	Information
1	System	13:25:20	192.168.1.100	Delete	N/A	WAP-500N 192.168.1.150 88:dc:96:5b:7c:2e
2	System	13:25:20	192.168.1.100	Delete	N/A	WBS-202N 192.168.1.161 a8:f7:e0:00:04:03
3	System	13:24:43	192.168.1.100	Delete	N/A	WS-1232P 192.168.1.192 a8:f7:e0:4b:9a:17
4	System	13:18:17	192.168.1.100	Disconnect	Camera	ICA-3460V 192.168.1.62 00:30:4f:00:06:21
5	System	13:18:17	192.168.1.100	Connect	Camera	ICA-3460V 192.168.1.62 00:30:4f:00:06:21
6	System	13:17:59	192.168.1.100	Start	UNI-NMS	Agent 192.168.1.100 08:00:27:14:00:fb

Total: 12, Online: 12

# UNI-NMS – Device List and Topology View

- ◆ Press the “Double Arrow” icon (No. 1) to see the full managed devices information.
- ◆ Press the “Identification” icon (No. 2) to modify the device description, type, and web protocol information.



The screenshot displays the UNI-NMS web interface. The top navigation bar shows the PLANET logo and the text 'Universal NMS'. Below this, there are counts for 'Device(s)', 'Client(s)', and 'Group(s)'. The main content area is titled 'Device List' and features a table of managed devices. The table has columns for Status, AP Group, MAC Address, Device Type, Model No., Version, IP Address, Device Description, and Action. The first device listed is a Wireless device (WNAP-C3220A) with IP 192.168.0.4. The second device is a Switch (PLANET GS-5220-8P2T2X L3 Managed Switch) with IP 192.168.1.201. The third device is a Wireless device (PLANET WS-2864PVR AP Managed Switch) with IP 192.168.1.200. The fourth device is a PLANET Controller with IP 192.168.1.100. The 'Action' column for each device contains icons for identification (a double arrow icon, labeled 1), link, and delete. The status bar at the bottom indicates 'Total: 4, Offline: 1, Online: 3'.

Status	AP Group	MAC Address	Device Type	Model No.	Version	IP Address	Device Description	Action
Offline		a8:f7:e0:16:05:00	Wireless	WNAP-C3220A	v1.3465cb170926	192.168.0.4	WNAP-C3220A	Identification, Link, Delete
Online	N/A	00:30:4f:00:00:06	Switch	GS-5220-8P2T2X	v2.440180914	192.168.1.201	PLANET GS-5220-8P2T2X L3 Managed Switch	Identification, Link, Delete
Online	N/A	a8:f7:e0:4b:34:26	Wireless	WS-2864PVR	v1.440181029	192.168.1.200	PLANET WS-2864PVR AP Managed Switch	Identification, Link, Delete
Online	N/A	08:00:27:c4:cc:2e	N/A	UNI-NMS	v1.0b181031	192.168.1.100	PLANET Controller	Identification, Link, Delete

Total: 4, Offline: 1, Online: 3

# UNI-NMS – System Event

- ◆ Press the “Event” icon (No. 1) to see the full system event by day.
- ◆ Press the “<<” & “>>” icon (No. 2) to select daily report.

PLANET Universal NMS

14 0 0

Device(s) Client(s) Group(s)

Discovery Topology View

Device List

Search:

	IP	Device Description
●	192.168.1.153	WNAP-W2201A
●	192.168.1.62	PLANET
●	192.168.1.150	WAP-500N
●	192.168.1.160	
●	192.168.1.161	
●	192.168.1.152	WNAP-C3220A
●	192.168.1.151	WNAP-W2201A

Device Information

IP Address	192.168.1.190
Device Model No.	WS-2864PVR
Device Status	Online
Device Type	Switch
MAC Address	a8:f7:e0:4b:35:0e

1. Event 2. << 2019-07-05 >> 3. Search

ID	Type	Time	Source	Status	Device Type	Information
1	System	10:29:55	192.168.1.100	Login Failed	N/A	192.168.1.10
2	System	10:29:55	192.168.1.100	Login Failed	N/A	192.168.1.10
3	System	08:55:13	192.168.1.100	Connect	Wireless	WDAP-802AC 192.168.1.160 a8:f7:e0:00:01:0c
4	System	08:55:13	192.168.1.100	Connect	Wireless	WBS-202N 192.168.1.161 a8:f7:e0:00:04:03
5	System	08:55:13	192.168.1.100	Connect	Wireless	WAP-552N 192.168.1.163 a8:f7:e0:3c:38:51

Total: 14, Offline: 1, Online: 13



# UNI-NMS – System Event

- ◆ Use “search” to choose the information you want by entering the key word .

**Device List**

	IP	Device Description
●	192.168.1.153	WNAP-W2201A
●	192.168.1.62	PLANET
●	192.168.1.150	WAP-500N
●	192.168.1.160	
●	192.168.1.161	
●	192.168.1.152	WNAP-C3220A
●	192.168.1.151	WNAP-W2201A

**Topology View**

PLANET

GE 1/22

PLANET WS-2854P/R AP Managed Switch

GE 1/13 GE 1/5 GE 1/16 GE 1/14 GE 1/8 GE 1/6 GE 1/20 GE 1/18 GE 1/11 GE 1/9 GE 1/12 GE 1/10

WAP-500N WNAP-W2201A N/A N/A WNAP-C3220A WNAP-W2201A WAP-552N N/A WNAP-W2200UE WNAP-W2200UE 2F N/A

**Event** Syslog 2019-07-05

WDAP

ID	Type	Time	Source	Status	Device Type	Information
1	System	08:55:13	192.168.1.100	Connect	Wireless	WDAP-802AC 192.168.1.160 a8:f7:e0:00:01:0c
2	System	08:53:04	192.168.1.100	Disconnect	Wireless	WDAP-802AC 192.168.1.160 a8:f7:e0:00:01:0c

# UNI-NMS – Syslog Server

- ◆ Press the “Syslog” icon (No. 1) to see the full syslog by day (Open the devices remote syslog function.).
- ◆ Press the “<<” & “>>” icon (No. 2) to select daily report.
- ◆ Press the “Drop-down ” menu (No. 3) to select severity and device ID.



The screenshot displays the PLANET UNI-NMS Syslog Server interface. The top bar shows the PLANET logo and the text 'Universal NMS'. Below this, there are statistics: '14 0 0' and 'Device(s) Client(s) Group(s)'. The interface is divided into two main sections: 'Discovery' and 'Topology View'. The 'Discovery' section on the left contains a 'Device List' table with columns for IP and Device Description. The 'Topology View' section on the right shows a network diagram with a central switch connected to various access points. The bottom section displays a table of syslog events. Red boxes and numbers 1, 2, and 3 highlight specific UI elements: 1. The 'Syslog' button in the event filter section. 2. The '<<' and '>>' navigation buttons in the event filter section. 3. The 'Severity' and 'Device' dropdown menus in the event filter section.

ID	Severity	Time	Source	Information
1	Informational	09:17:38	192.168.1.190 (PLANET WS-2864PVR AP Managed Switch)	1970-01-01 Thu 00:25:01+00:00 [WS-2864PVR] LINK-UPDOWN: Interface GigabitEthernet 1/4, changed state to down.
2	Informational	09:05:02	192.168.1.50	1970-01-01 Thu 00:00:38+00:00 [GS-5220-8P2T2X] SYS-BOOTING: Switch just made a cold boot.
3	Informational	09:05:02	192.168.1.50	1970-01-01 Thu 00:00:40+00:00 [GS-5220-8P2T2X] LINK-UPDOWN: Interface GigabitEthernet 1/2, changed state to up.

Total: 14.

# UNI-NMS – System Event

- ◆ Use **Search** to choose the information you want by entering the key word.

Event Syslog << 2019-07-05 >> Severity: INFO Device: Any 1 / 10

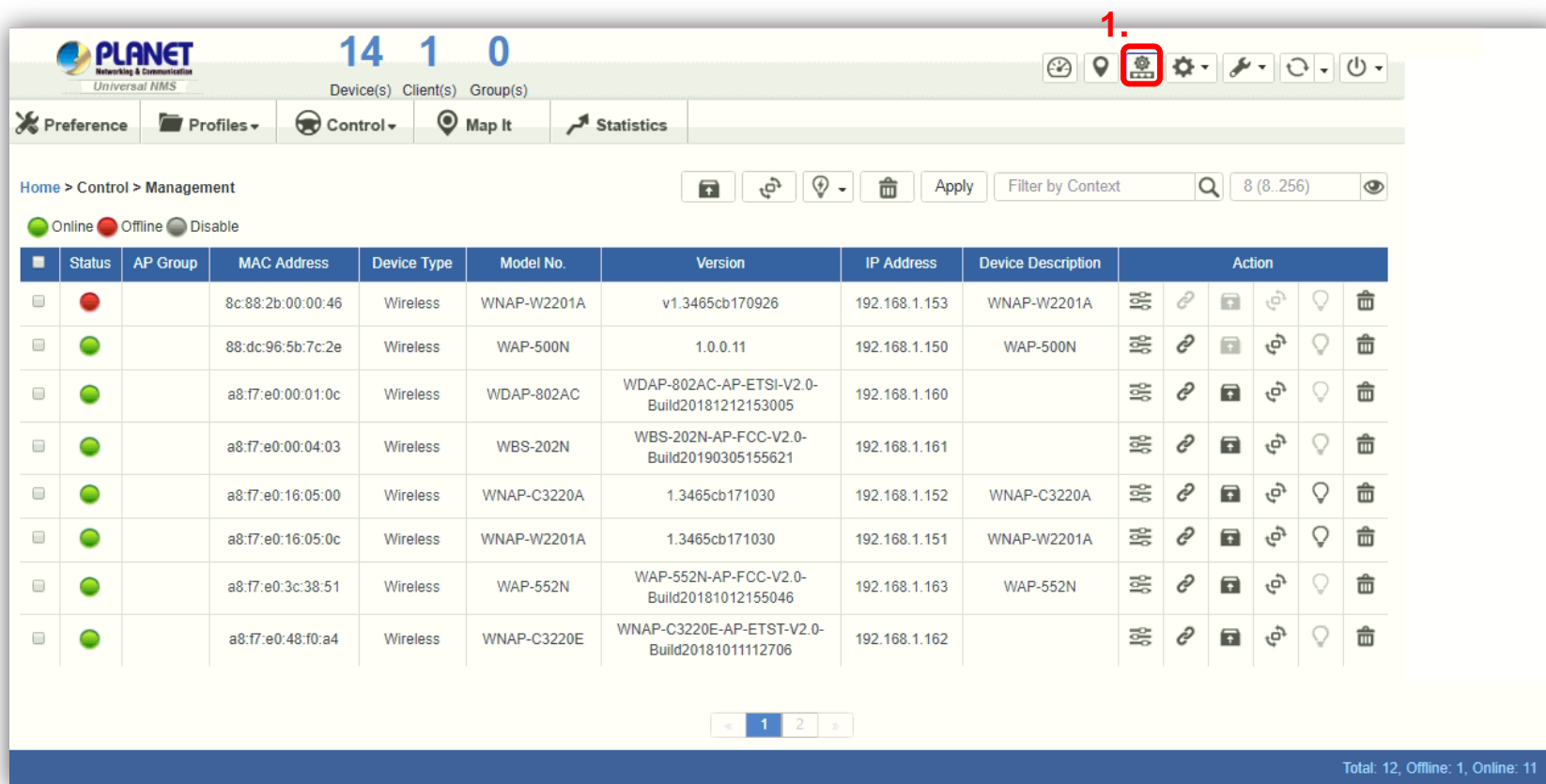
4. 2864

ID	Severity	Time	Source	Information
1	Informational	09:17:38	192.168.1.190	1970-01-01 Thu 00:25:01+00:00 [WS-2864PVR] LINK-UPDOWN: Interface GigabitEthernet 1/4, changed state to down.
2	Informational	09:04:48	192.168.1.190	1970-01-01 Thu 00:12:11+00:00 [WS-2864PVR] LINK-UPDOWN: Interface GigabitEthernet 1/4, changed state to up.
3	Informational	08:54:29	192.168.1.190	1970-01-01 Thu 00:01:51+00:00 [WS-2864PVR] LINK-UPDOWN: Interface GigabitEthernet 1/10, changed state to up.
4	Informational	08:54:29	192.168.1.190	1970-01-01 Thu 00:01:51+00:00 [WS-2864PVR] LINK-UPDOWN: Interface GigabitEthernet

# Software AP Controller

- ◆ Press the “AP control” icon (No. 1) to use AP control function.

※How to operate. Refer to SAPC user’s manual : “[Configuration Guide](#)”



1.

Home > Control > Management

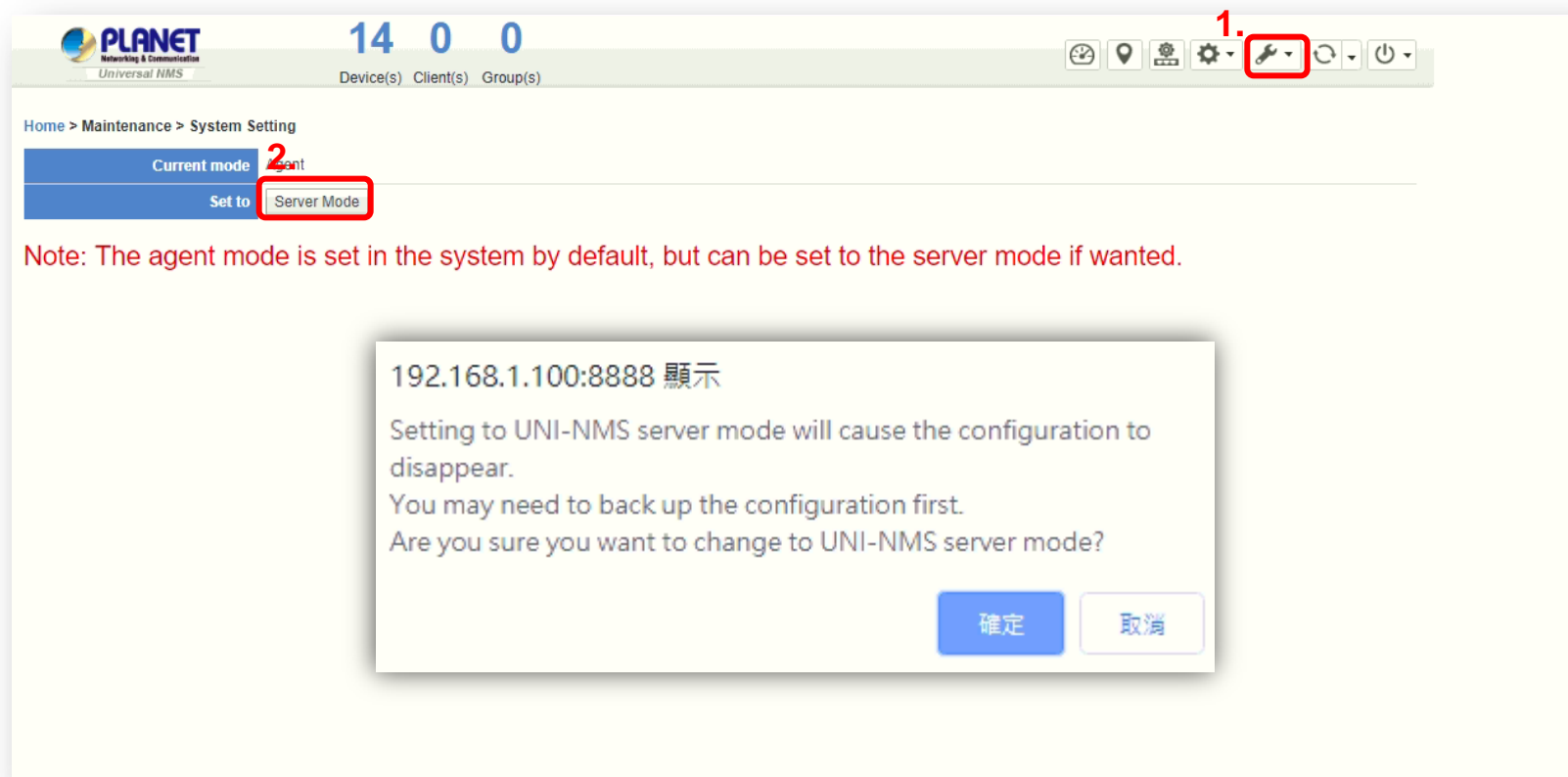
Online Offline Disable

■	Status	AP Group	MAC Address	Device Type	Model No.	Version	IP Address	Device Description	Action
<input type="checkbox"/>	Offline		8c:88:2b:00:00:46	Wireless	WNAP-W2201A	v1.3465cb170926	192.168.1.153	WNAP-W2201A	[Icons]
<input type="checkbox"/>	Online		88:dc:96:5b:7c:2e	Wireless	WAP-500N	1.0.0.11	192.168.1.150	WAP-500N	[Icons]
<input type="checkbox"/>	Online		a8:f7:e0:00:01:0c	Wireless	WDAP-802AC	WDAP-802AC-AP-ETSI-V2.0-Build20181212153005	192.168.1.160		[Icons]
<input type="checkbox"/>	Online		a8:f7:e0:00:04:03	Wireless	WBS-202N	WBS-202N-AP-FCC-V2.0-Build20190305155621	192.168.1.161		[Icons]
<input type="checkbox"/>	Online		a8:f7:e0:16:05:00	Wireless	WNAP-C3220A	1.3465cb171030	192.168.1.152	WNAP-C3220A	[Icons]
<input type="checkbox"/>	Online		a8:f7:e0:16:05:0c	Wireless	WNAP-W2201A	1.3465cb171030	192.168.1.151	WNAP-W2201A	[Icons]
<input type="checkbox"/>	Online		a8:f7:e0:3c:38:51	Wireless	WAP-552N	WAP-552N-AP-FCC-V2.0-Build20181012155046	192.168.1.163	WAP-552N	[Icons]
<input type="checkbox"/>	Online		a8:f7:e0:48:f0:a4	Wireless	WNAP-C3220E	WNAP-C3220E-AP-ETST-V2.0-Build20181011112706	192.168.1.162		[Icons]

Total: 12, Offline: 1, Online: 11

# Server Setting

- ◆ Press the “Maintenance” icon (No. 1) to make the system become Server Mode.
- ◆ Press the “Server Mode” icon (No. 2) to start setting to the Server mode and a pop-up window will display a warning message.

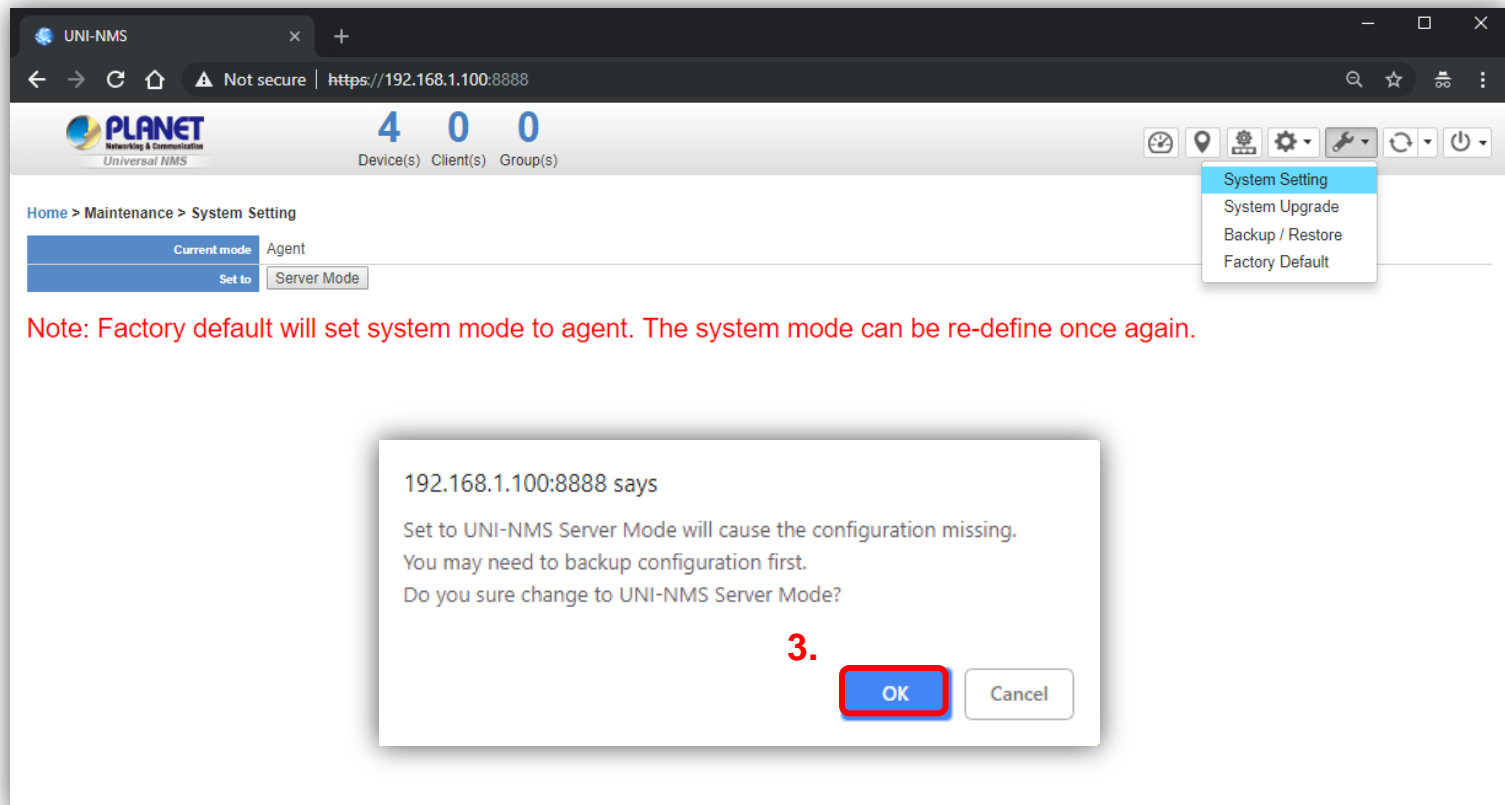


The screenshot shows the PLANET Universal NMS interface. At the top, there is a header with the PLANET logo, the text "Universal NMS", and statistics: "14 0 0" for "Device(s) Client(s) Group(s)". On the right, there is a toolbar with several icons. A red box labeled "1." highlights the "Maintenance" icon (a wrench). Below the header, the breadcrumb "Home > Maintenance > System Setting" is visible. In the "System Setting" section, there are two buttons: "Current mode" and "Set to". The "Current mode" button is labeled "Agent" and has a red box labeled "2." next to it. The "Set to" button is labeled "Server Mode" and is also highlighted with a red box. Below the interface, a warning dialog box is displayed. The dialog box contains the text: "192.168.1.100:8888 顯示", "Setting to UNI-NMS server mode will cause the configuration to disappear.", "You may need to back up the configuration first.", and "Are you sure you want to change to UNI-NMS server mode?". At the bottom of the dialog box, there are two buttons: "確定" (Confirm) and "取消" (Cancel).

Note: The agent mode is set in the system by default, but can be set to the server mode if wanted.

# Server Setting

- ◆ Press the “OK” icon to start changing system to Server Mode.



The screenshot shows the UNI-NMS web interface. The browser address bar displays `https://192.168.1.100:8888`. The interface includes a header with the PLANET logo, statistics (4 Device(s), 0 Client(s), 0 Group(s)), and a top navigation bar with icons for clock, location, system, settings, tools, refresh, and power. A dropdown menu is open for the settings icon, showing options: System Setting (highlighted), System Upgrade, Backup / Restore, and Factory Default. The main content area shows the breadcrumb `Home > Maintenance > System Setting` and a section for switching modes. The 'Current mode' is 'Agent', and the 'Set to' dropdown is set to 'Server Mode'. Below this, a red note states: 'Note: Factory default will set system mode to agent. The system mode can be re-define once again.'

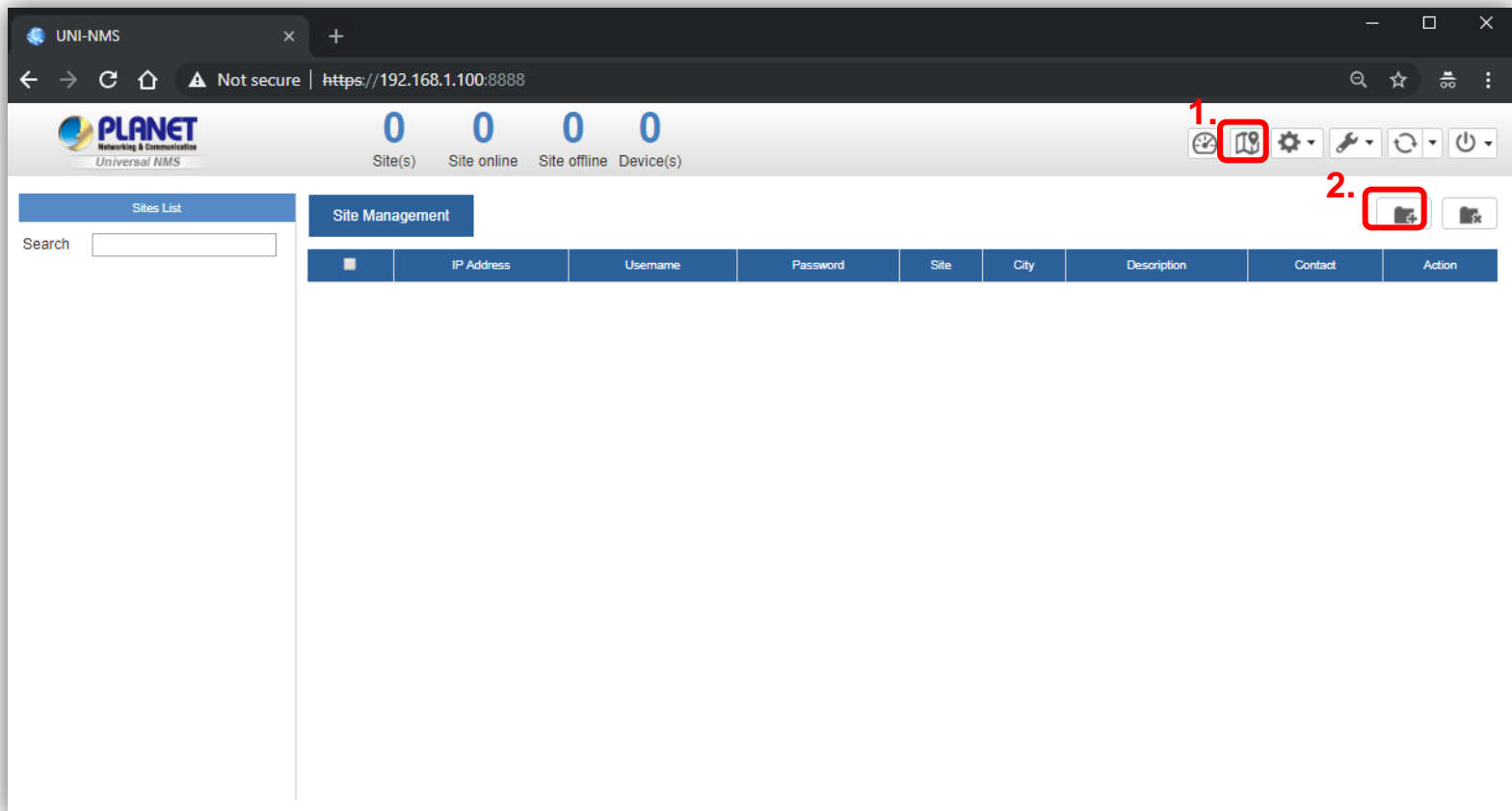
A confirmation dialog box is displayed in the foreground with the following text:

192.168.1.100:8888 says  
Set to UNI-NMS Server Mode will cause the configuration missing.  
You may need to backup configuration first.  
Do you sure change to UNI-NMS Server Mode?

The dialog box has two buttons: 'OK' (highlighted with a red box) and 'Cancel'.

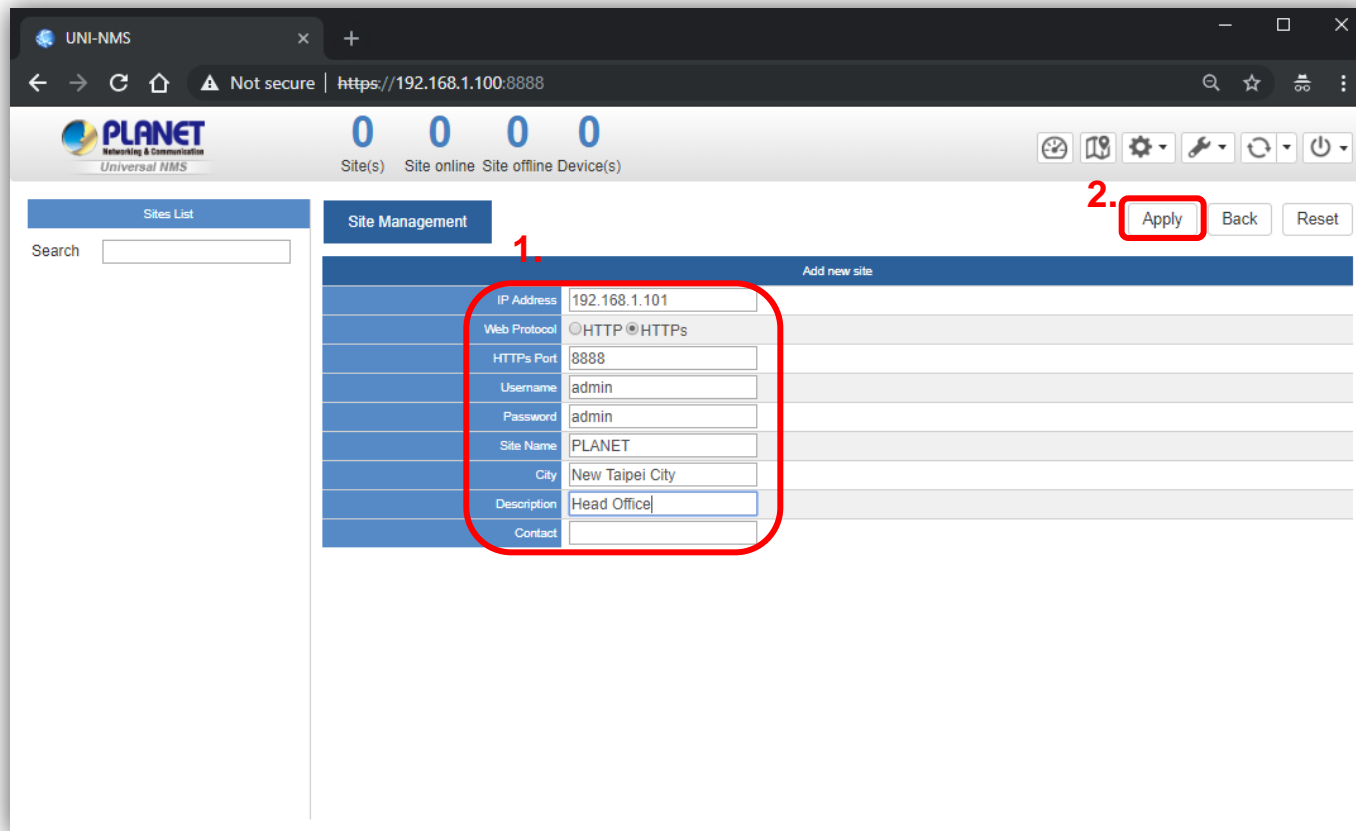
# Server Setting

- ◆ Press the “Site” icon (No. 1) to make the system become Server Mode.
- ◆ Press the “Add-New-Site” icon (No. 2) to add a different site to your network.



# Adding a New Site

- ◆ Fill out the fields to build a new site.
- ◆ Press the “**Apply**” icon (No. 2) to add a new site.



The screenshot shows the UNI-NMS web interface. The top navigation bar includes the PLANET logo, status indicators (0 Site(s), 0 Site online, 0 Site offline, 0 Device(s)), and various system icons. The main content area is titled 'Site Management' and features a 'Sites List' sidebar with a search bar. The 'Add new site' form is the central focus, with a red box labeled '1.' highlighting the input fields. The fields are: IP Address (192.168.1.101), Web Protocol (radio buttons for HTTP and HTTPs, with HTTPs selected), HTTPs Port (8888), Username (admin), Password (admin), Site Name (PLANET), City (New Taipei City), Description (Head Office), and Contact (empty). A red box labeled '2.' highlights the 'Apply' button, with 'Back' and 'Reset' buttons also visible.

Add new site	
IP Address	192.168.1.101
Web Protocol	<input type="radio"/> HTTP <input checked="" type="radio"/> HTTPs
HTTPs Port	8888
Username	admin
Password	admin
Site Name	PLANET
City	New Taipei City
Description	Head Office
Contact	



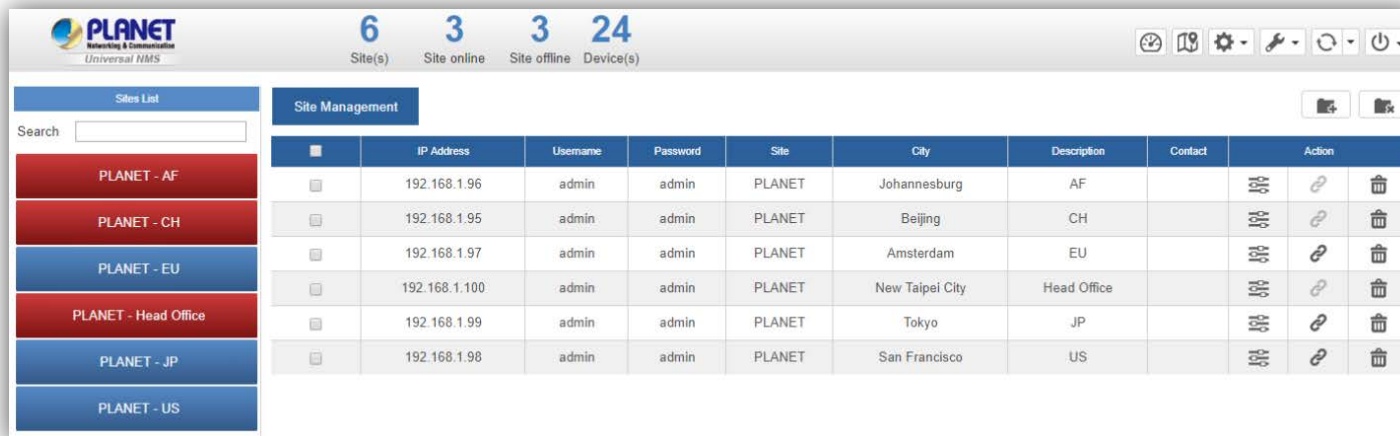
# Showing Different Statuses

- ◆ After adding a new site, wait for the system to be connected.
- ◆ The colored buttons show different statuses like:

**Blue:** connected

**Red:** disconnected

**Gray:** in connection



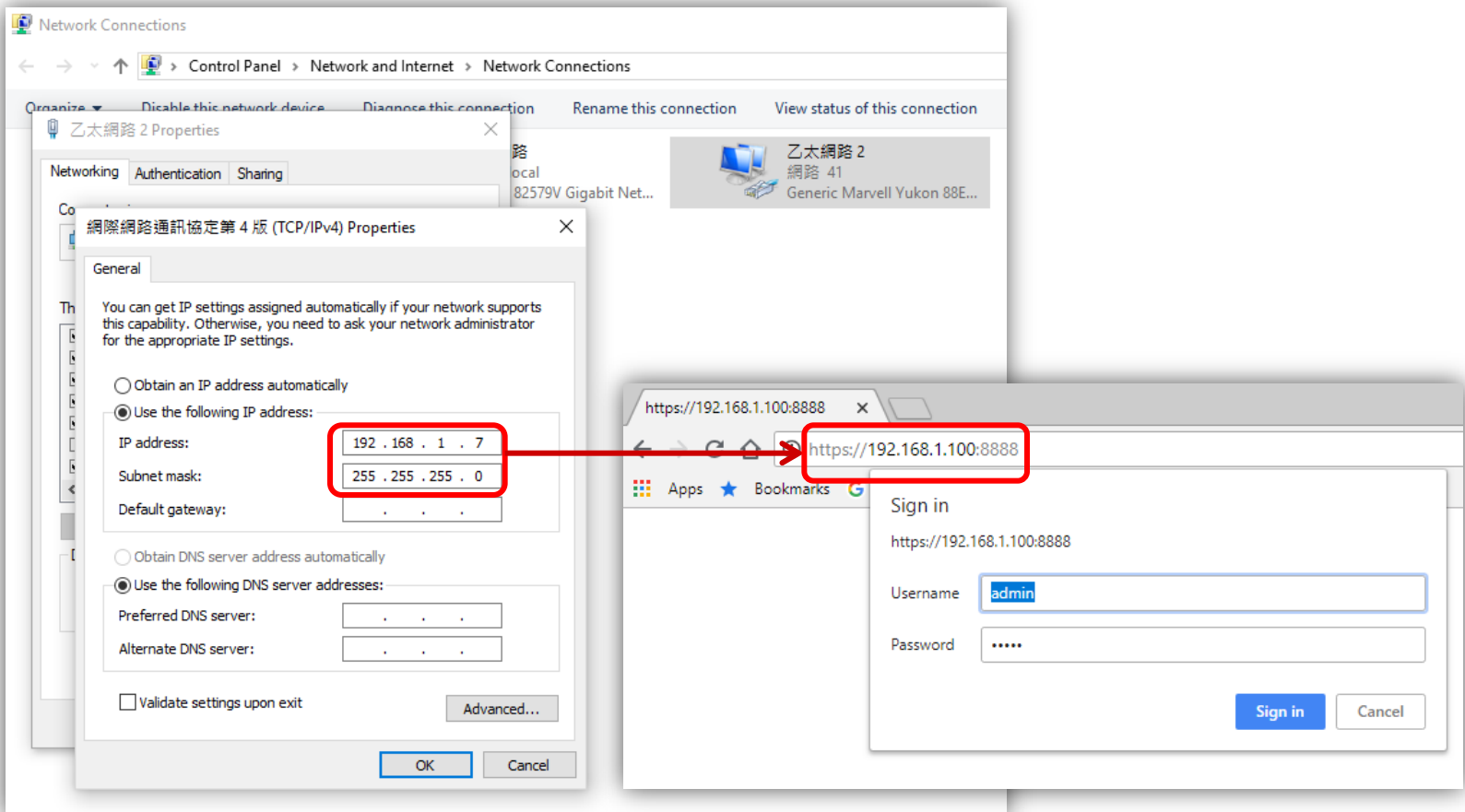
The screenshot shows the PLANET Universal NMS Site Management interface. At the top, there are status indicators: 6 Site(s), 3 Site online, 3 Site offline, and 24 Device(s). The interface is divided into two main sections: 'Sites List' on the left and 'Site Management' on the right. The 'Sites List' section contains a search bar and a list of sites with colored buttons: PLANET - AF (red), PLANET - CH (red), PLANET - EU (blue), PLANET - Head Office (red), PLANET - JP (blue), and PLANET - US (blue). The 'Site Management' section contains a table with columns: IP Address, Username, Password, Site, City, Description, Contact, and Action. The table lists six sites: Johannesburg (AF), Beijing (CH), Amsterdam (EU), New Taipei City (Head Office), Tokyo (JP), and San Francisco (US). Each site has a corresponding icon in the Action column.

IP Address	Username	Password	Site	City	Description	Contact	Action
192.168.1.96	admin	admin	PLANET	Johannesburg	AF		[Icon]
192.168.1.95	admin	admin	PLANET	Beijing	CH		[Icon]
192.168.1.97	admin	admin	PLANET	Amsterdam	EU		[Icon]
192.168.1.100	admin	admin	PLANET	New Taipei City	Head Office		[Icon]
192.168.1.99	admin	admin	PLANET	Tokyo	JP		[Icon]
192.168.1.98	admin	admin	PLANET	San Francisco	US		[Icon]

- ◆ Press the colored button to see the detailed information.

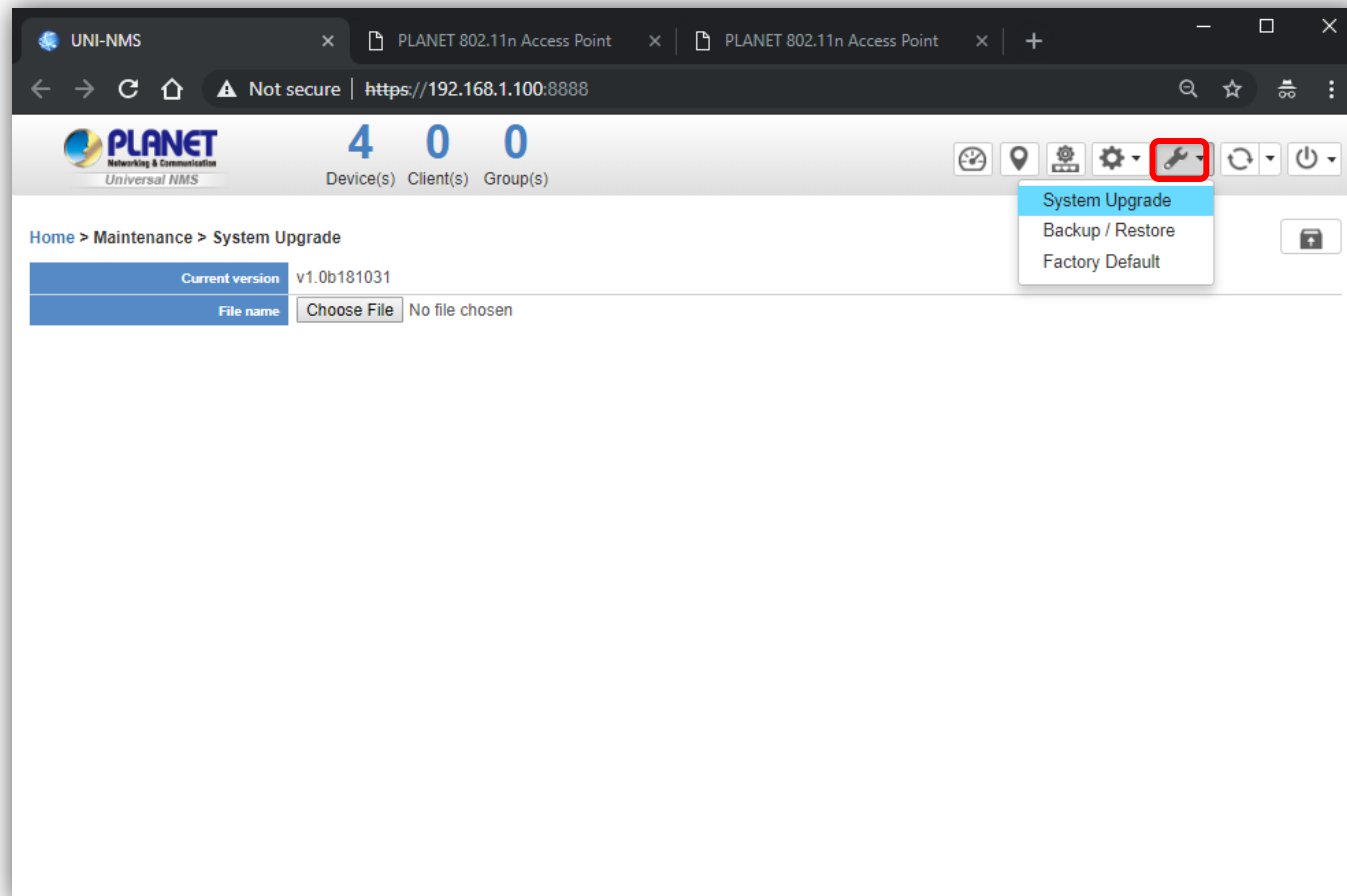
# Appendix 1: Checking Network Status

- ◆ UNI-NMS is set to the static IP: 192.168.1.100, so configure the network card to log in in the same network segment.



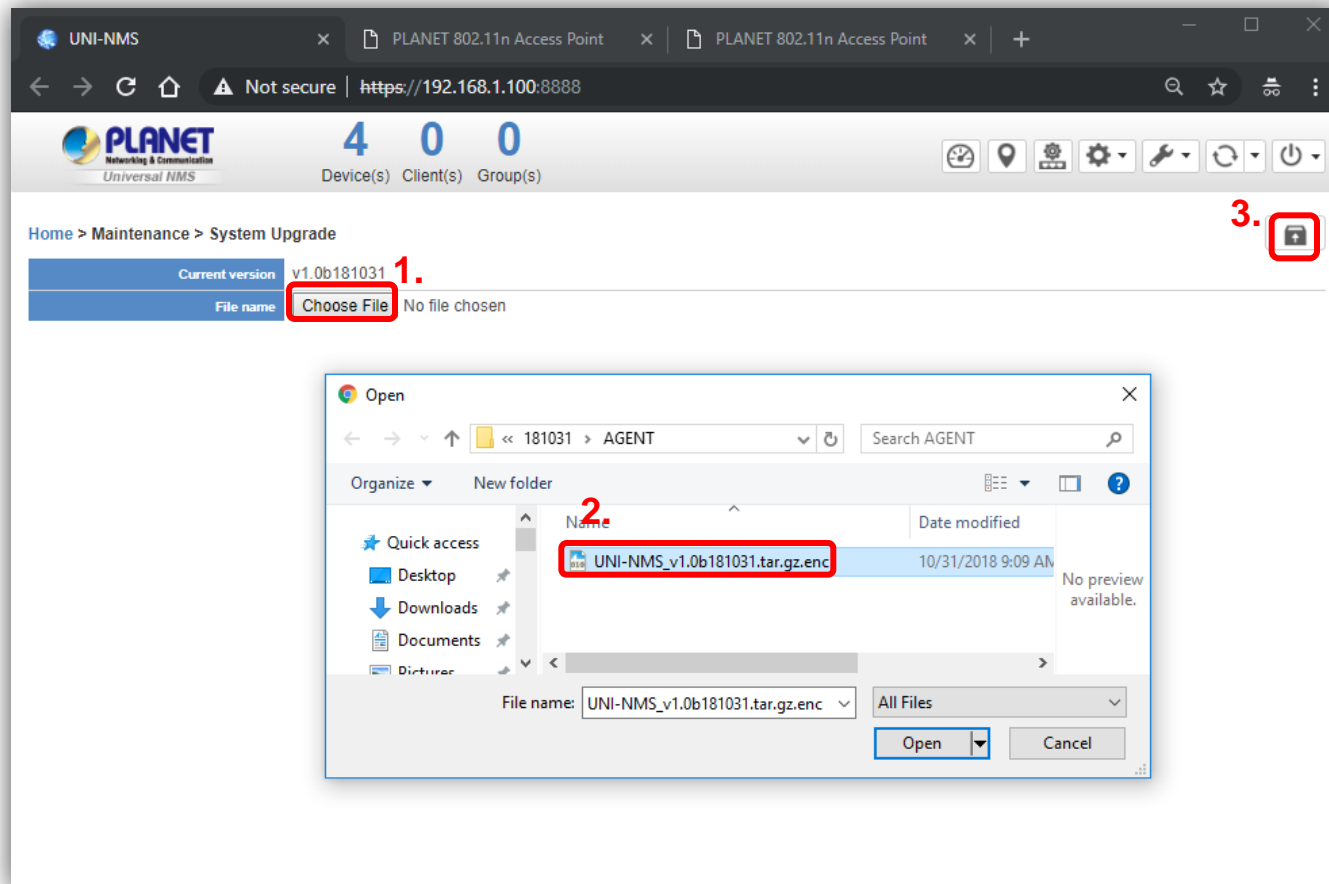
## Appendix 2: Upgrading System with Patch File

- ◆ Press the “**Maintenance**” icon to select “**System Upgrade**” to load patch file so as to upgrade UNI-NMS system.



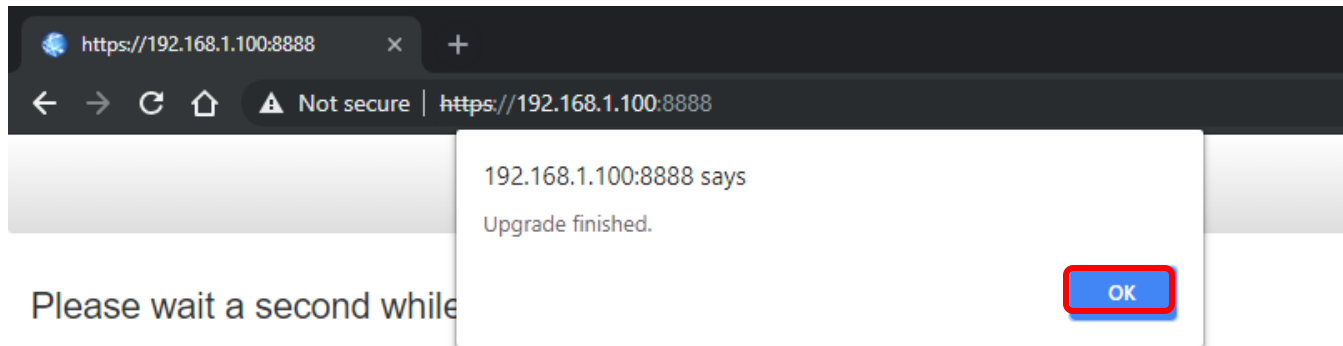
## Appendix 2: Upgrading System with Patch File

- ◆ On System Upgrade screen, select “UNI-NMS\_xxx.enc” patch file and then click the “System Upgrade” icon to start system upgrade.



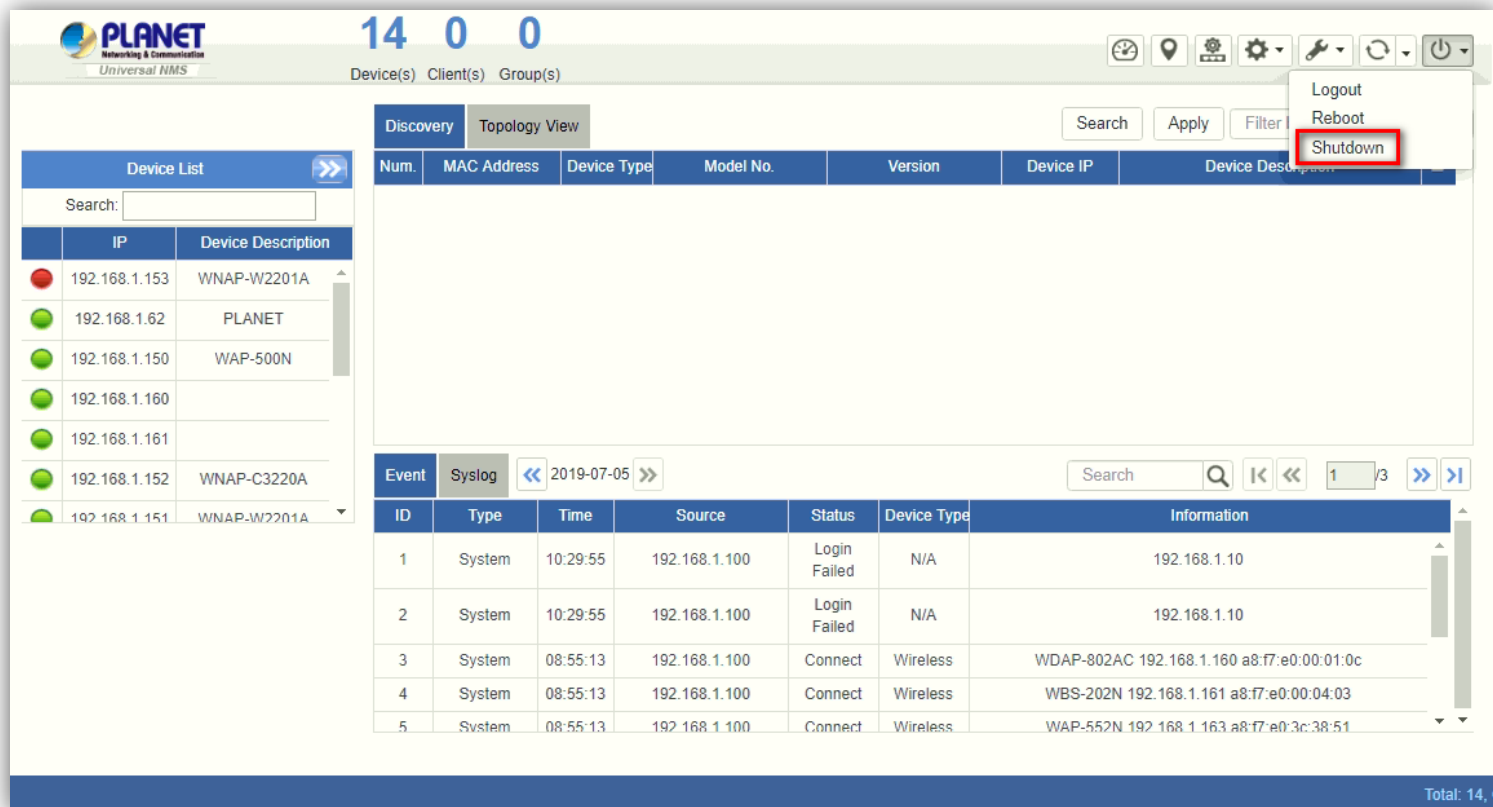
## Appendix 2: Upgrading System with Patch File

- ◆ If System Upgrade is successful, Web UI will show “Upgrade finished.”  
Press the OK button to go to the Dashboard page.



## Appendix 3: How to Shut Down the VM

- ◆ Press the **“Exit”** icon and select **“Shutdown”** to shut down the UNI-NMS system and VM; otherwise, it may cause the system to be abnormal at the next restart.



The screenshot shows the PLANET Universal NMS web interface. At the top, there is a status bar with the text "14 0 0" and "Device(s) Client(s) Group(s)". Below this, there are tabs for "Discovery" and "Topology View". A search bar is present with "Search", "Apply", and "Filter" buttons. On the right side, a dropdown menu is open, showing options: "Logout", "Reboot", and "Shutdown" (which is highlighted with a red box). The main area displays a "Device List" table on the left and a "Syslog" table on the right.

Num.	MAC Address	Device Type	Model No.	Version	Device IP	Device Description
1	192.168.1.153	WNAP-W2201A				
2	192.168.1.62	PLANET				
3	192.168.1.150	WAP-500N				
4	192.168.1.160					
5	192.168.1.161					
6	192.168.1.152	WNAP-C3220A				
7	192.168.1.151	WNAP-W2201A				

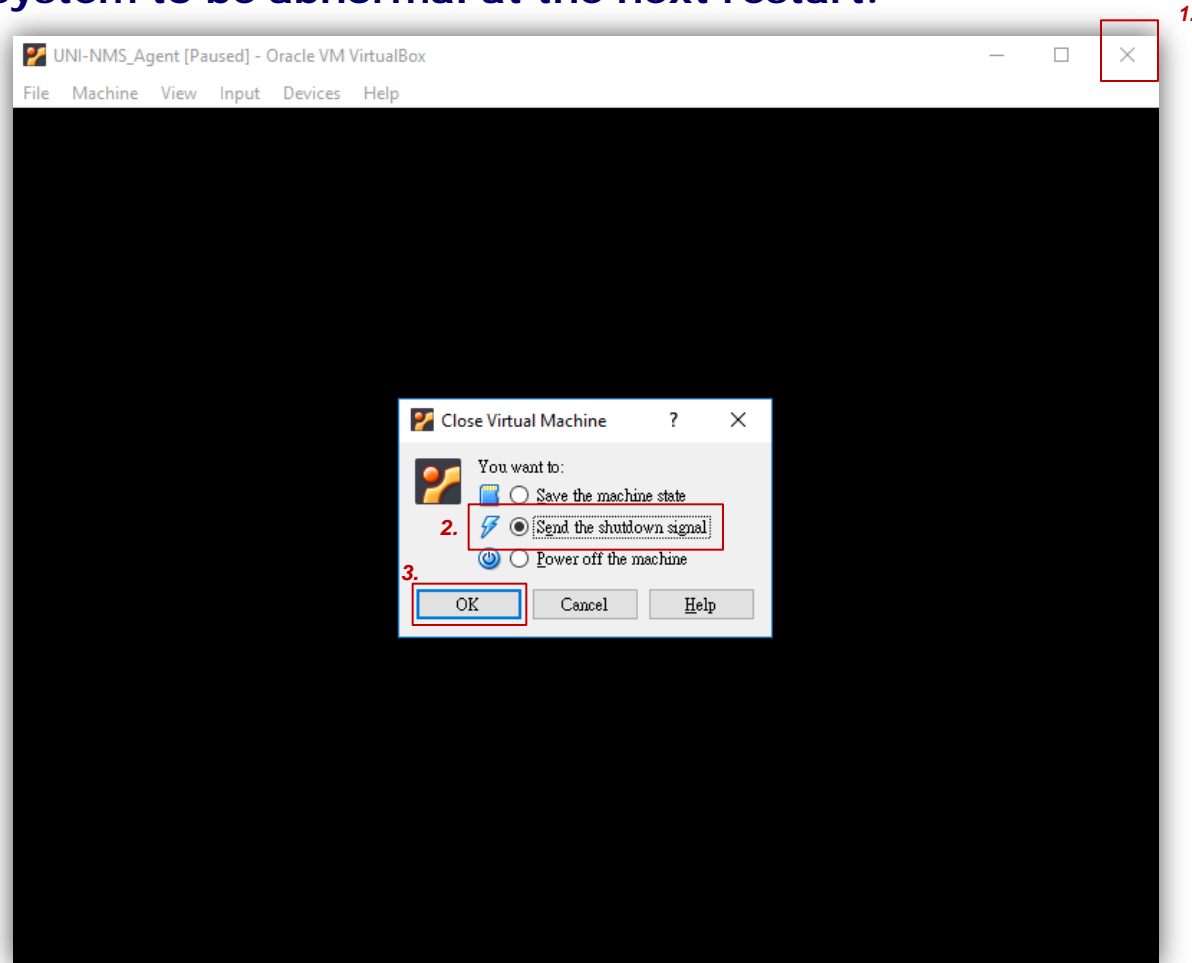
  

ID	Type	Time	Source	Status	Device Type	Information
1	System	10:29:55	192.168.1.100	Login Failed	N/A	192.168.1.10
2	System	10:29:55	192.168.1.100	Login Failed	N/A	192.168.1.10
3	System	08:55:13	192.168.1.100	Connect	Wireless	WDAP-802AC 192.168.1.160 a8:f7:e0:00:01:0c
4	System	08:55:13	192.168.1.100	Connect	Wireless	WBS-202N 192.168.1.161 a8:f7:e0:00:04:03
5	System	08:55:13	192.168.1.100	Connect	Wireless	WAP-552N 192.168.1.163 a8:f7:e0:3c:38:51

Total: 14, C

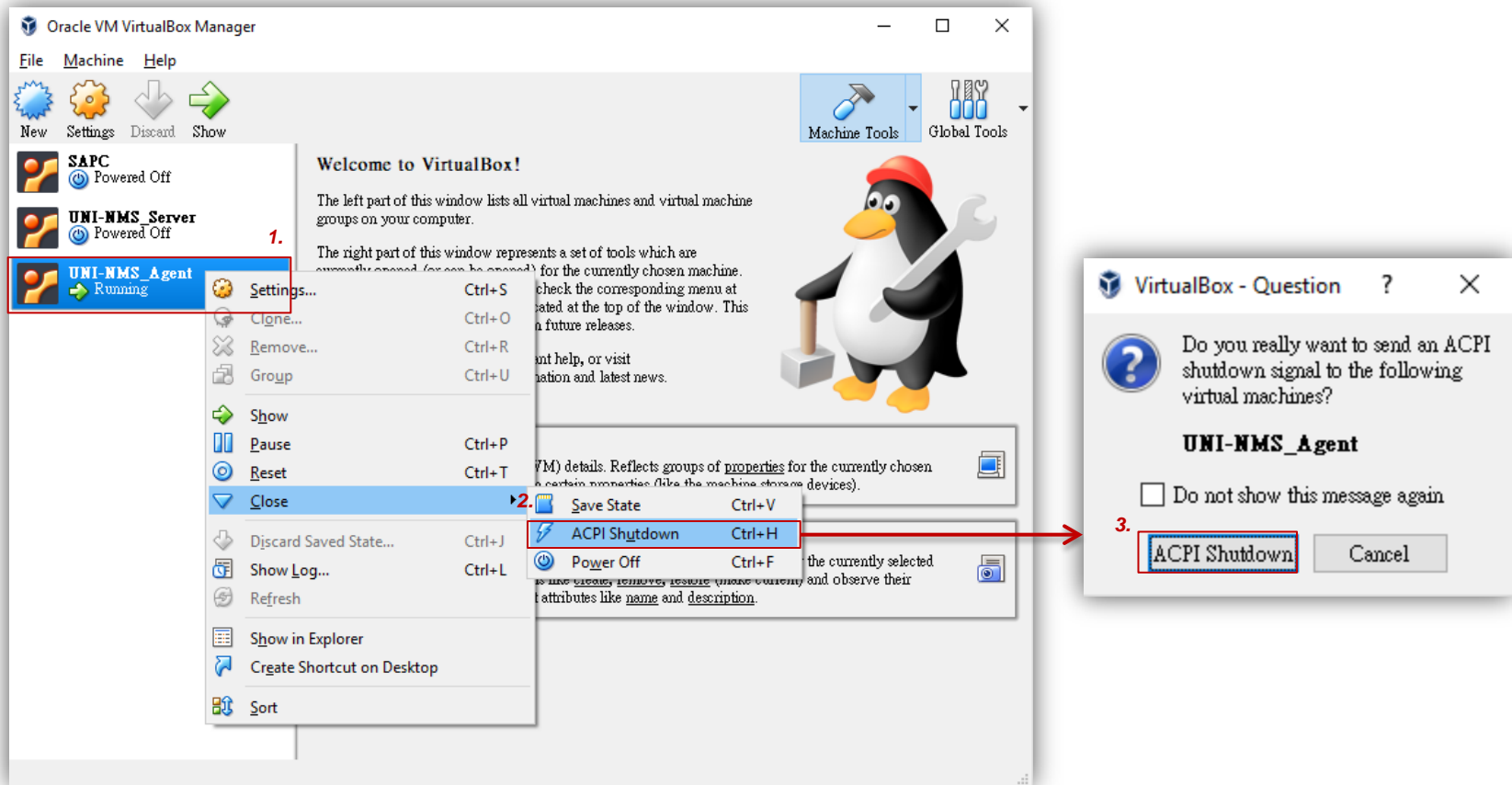
## Appendix 3: Using VM to Shut Down the System

- ◆ **Do Not select "Power Off"** to shut down the VM; otherwise, it may cause the system to be abnormal at the next restart.



# Appendix 4: Using VM to Shut Down the System

- ◆ **Do Not select "Power Off" to shut down the VM; otherwise, it may cause the system to be abnormal at the next restart.**





# Appendix 5: VM Main Command Introduction

```
UNI-NMS_Agent [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

Ubuntu 16.04.1 LTS UNI-NMS tty1

UNI-NMS login: adminuser
Password:
Last login: Tue Oct 30 16:41:21 CST 2018 on tty1
Welcome to Ubuntu 16.04.1 LTS (GNU/Linux 4.4.0-79-generic i686)

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:       https://ubuntu.com/advantage

1) View IP Status   3) Restart Network  5) Logout           7) Shutdown
2) Ping            4) Reset Database  6) Reboot

Please enter your choice: 1
IP Address: 192.168.1.114
Netmask:    255.255.255.0
Gateway:    192.168.1.254

Please enter your choice: 2
Please input IP Address: 192.168.1.114
PING 192.168.1.114 (192.168.1.114) 56(84) bytes of data:
64 bytes from 192.168.1.114: icmp_seq=1 ttl=64 time=0.156 ms
64 bytes from 192.168.1.114: icmp_seq=2 ttl=64 time=0.127 ms
64 bytes from 192.168.1.114: icmp_seq=3 ttl=64 time=0.125 ms

--- 192.168.1.114 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 1999ms
rtt min/avg/max/mdev = 0.125/0.136/0.156/0.014 ms

Please enter your choice: 3
Restart network will take a few seconds
Network restart finished.

Please enter your choice: 4
[WARNING] All the configuration will lose. System will reboot at the end of reset. Default IP Address: 192.168.1.100
Do you wish to reset database to default? [N/y]
```

**Command 1. : Show UNI-NMS IP.**

**Command 2. : Test to ping any IP address in the same network segment .**

**Command 3. : Restart network.**

**Command 4. : Reset database. [WARNING]**



# ACTIVATING IP POWER