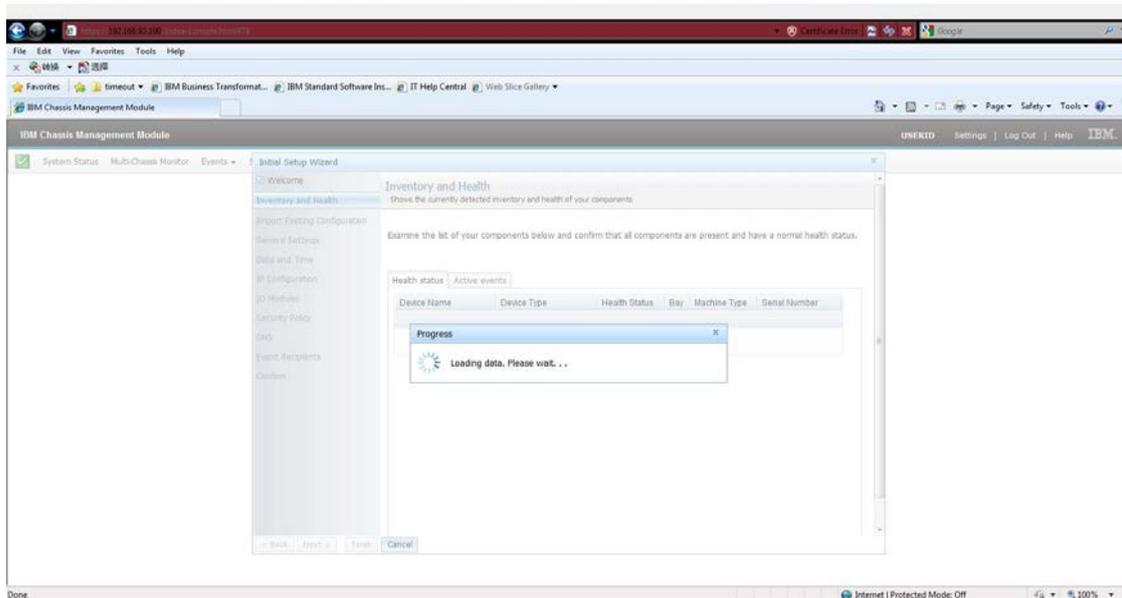
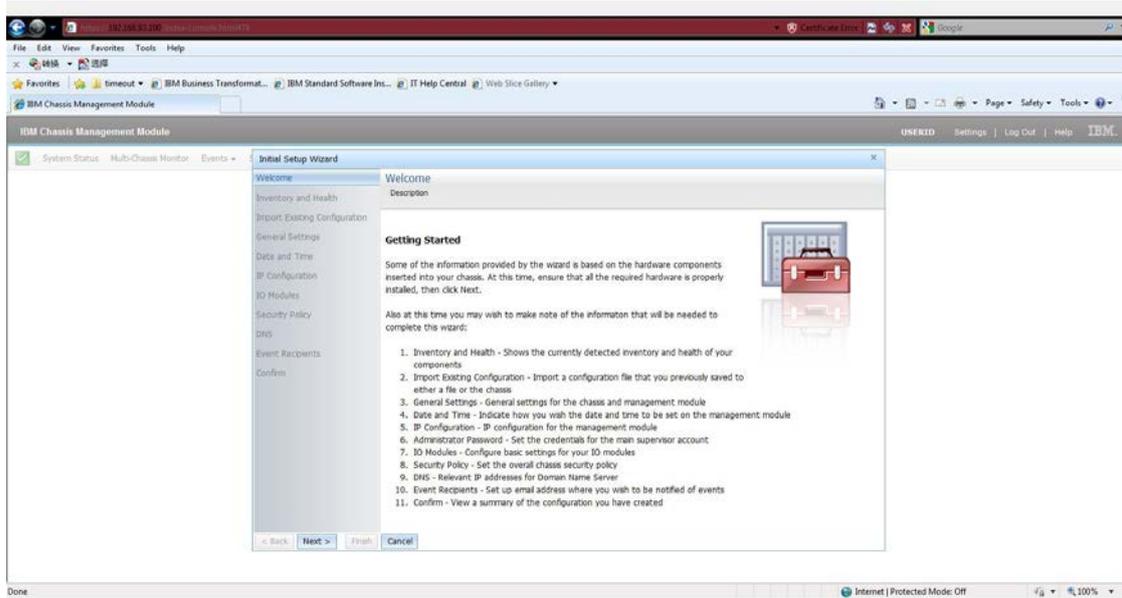


# PureFlex 安装向导

## 1 检查系统硬件配置

### 1.1 初始化 CMM

第一次登录 CMM 时，会自动进入初始化界面。



IBM Chassis Management Module - Initial Setup Wizard

**Inventory and Health**  
Shows the currently detected inventory and health of your components

Examine the list of your components below and confirm that all components are present and have a normal health status.

Device Name	Device Type	Health Status	Bay	Machine Type	Serial Number
MMY011BG253030	Management Module	Normal	1		Y011BG253030
Standby MM	Management Module	Normal	2		Y011BG244028
node01	Blade	Normal	1		Y011BG2601M
node02	Blade	Normal	2		YL101126100H
node03	Blade	Normal	3		Y011BG25P086
node04	Blade	Normal	4		Y011BG25R058
node05	Blade	Normal	5		Y011BG25R0CD
node07	Blade	Normal	7		YL101127G008
Power Module 1	Power Module	Normal	1		ZK10811C00F
Power Module 2	Power Module	Normal	2		ZK10811C004
Power Module 3	Power Module	Normal	3		ZK108121B02D
Power Module 4	Power Module	Normal	4		ZK10811CP00W
Power Module 5	Power Module	Normal	5		ZK10811CP01C

< Back Next > Refresh Cancel

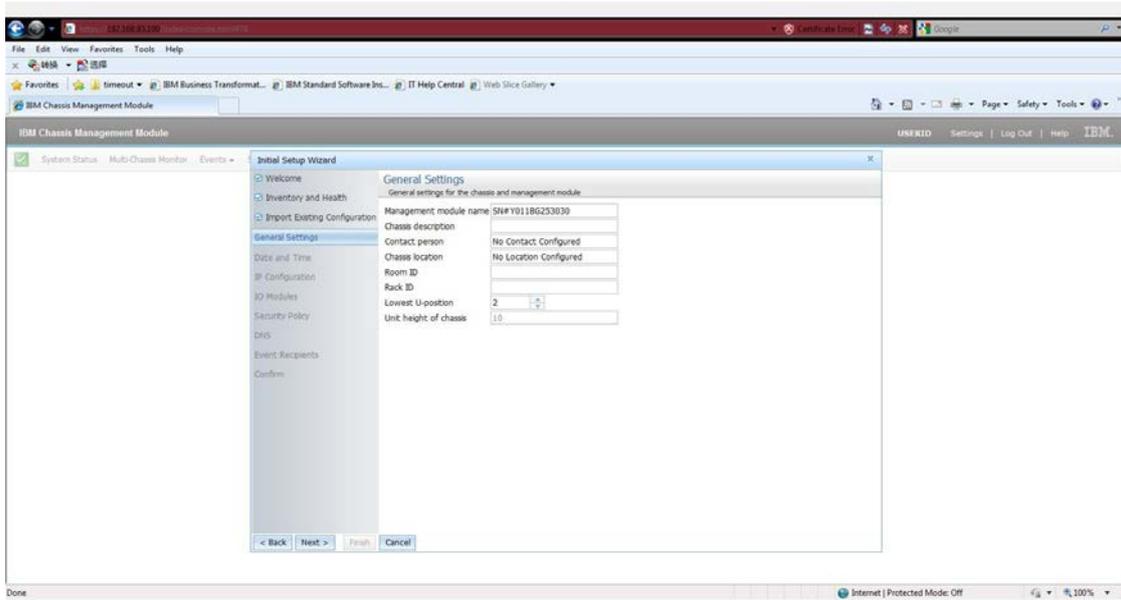
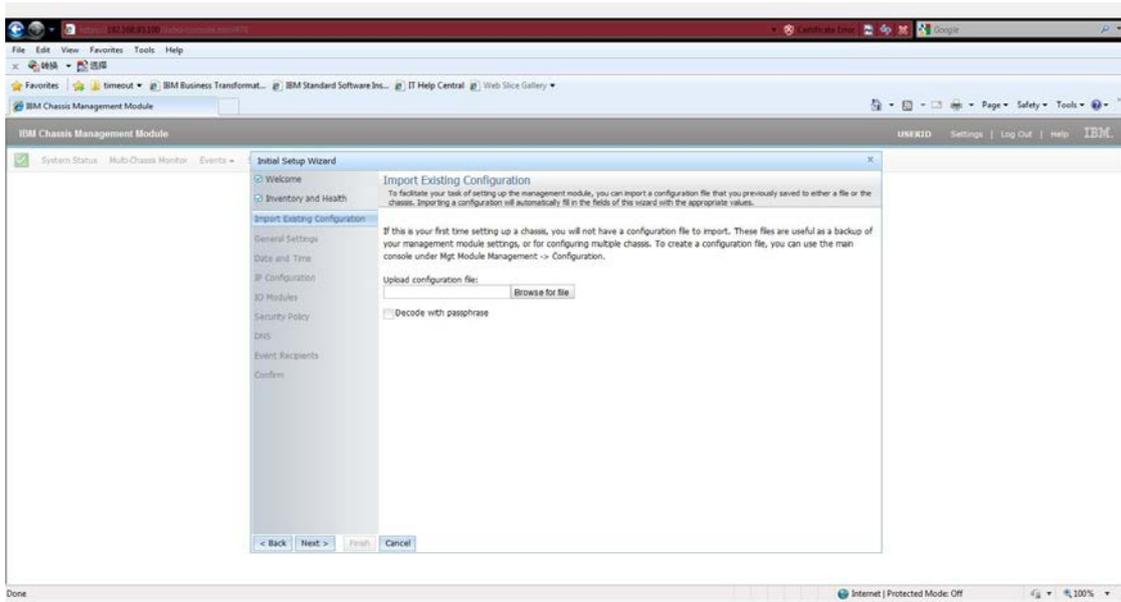
IBM Chassis Management Module - Initial Setup Wizard

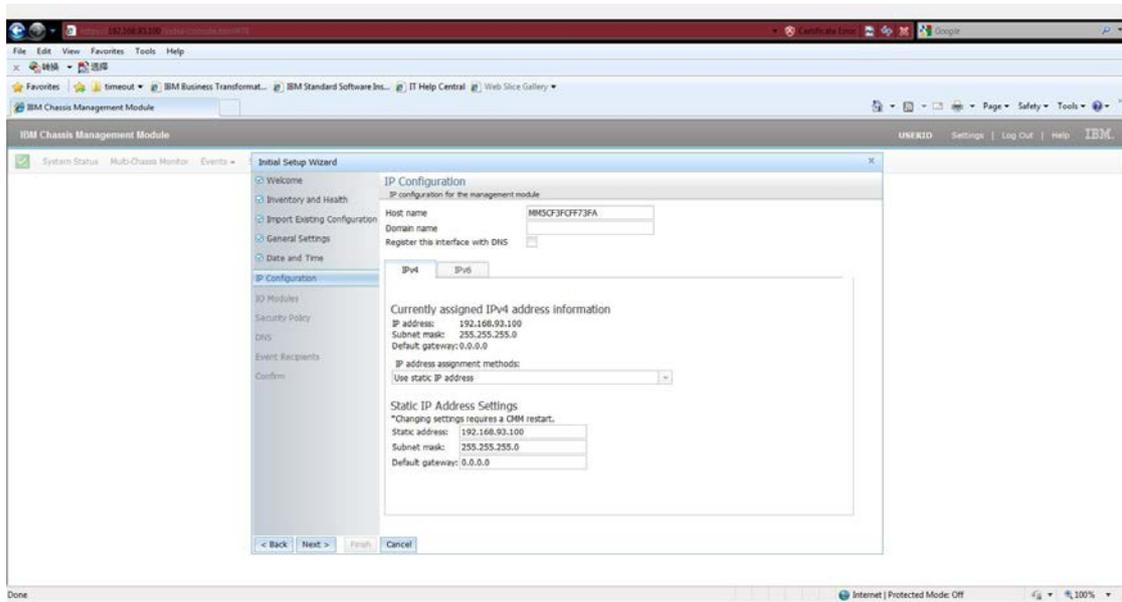
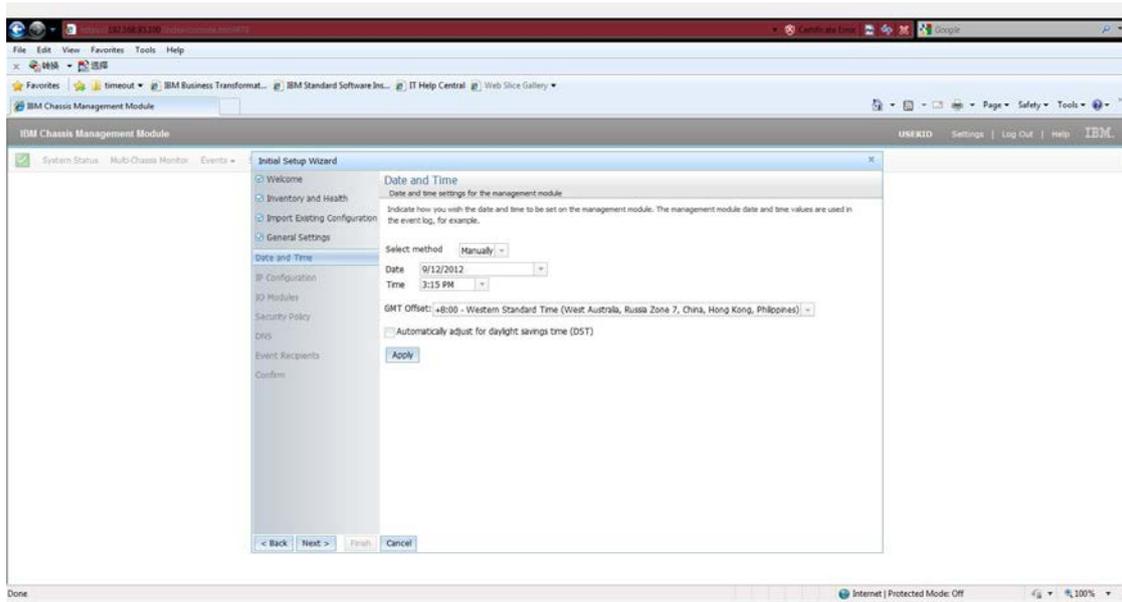
**Inventory and Health**  
Shows the currently detected inventory and health of your components

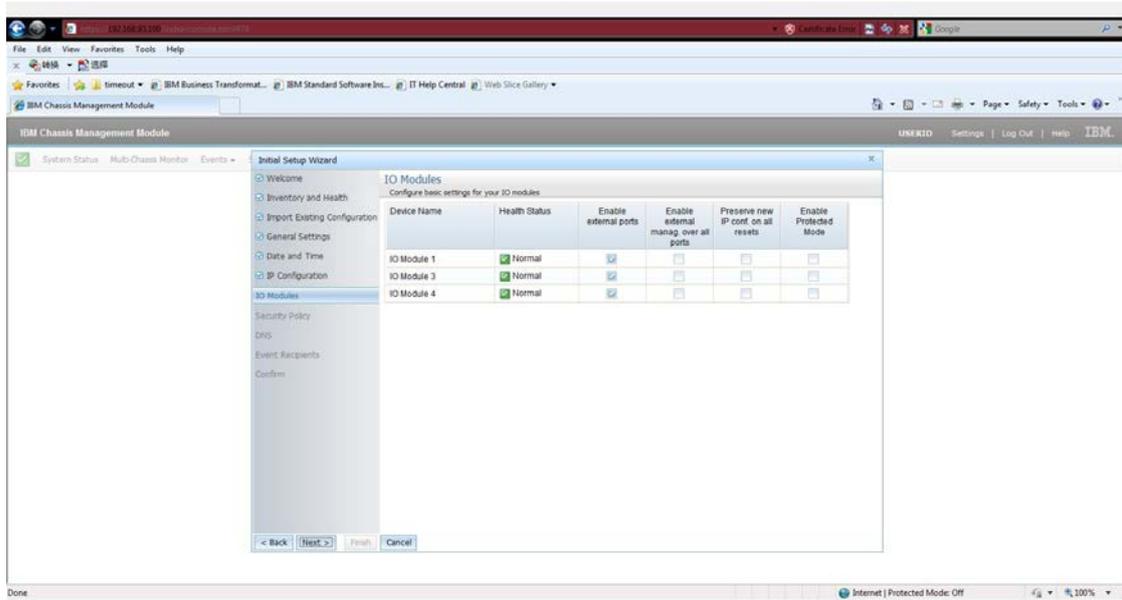
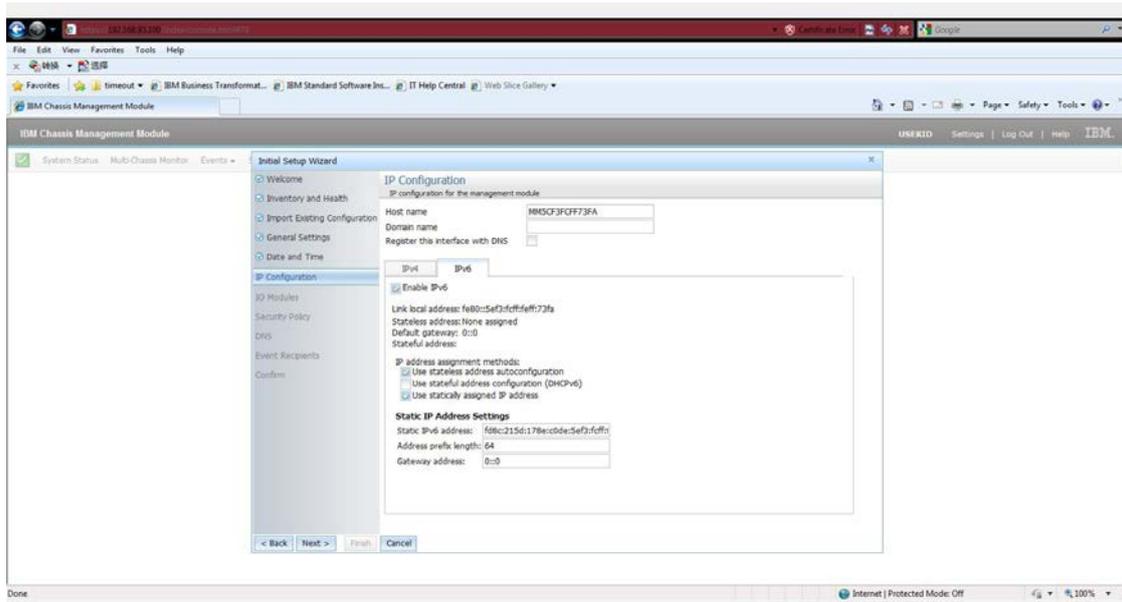
Examine the list of your components below and confirm that all components are present and have a normal health status.

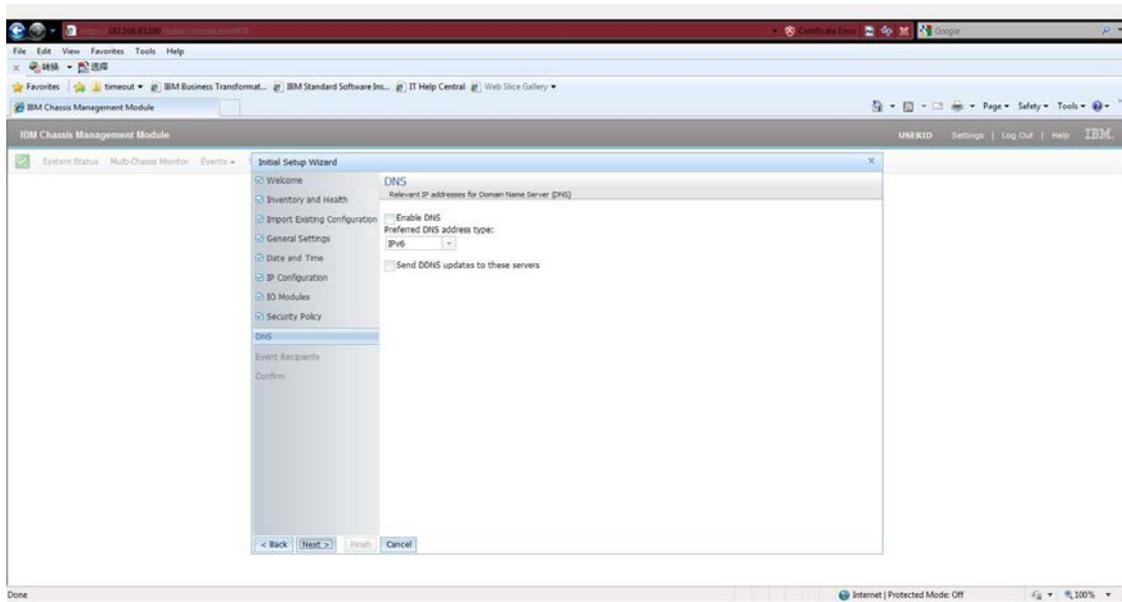
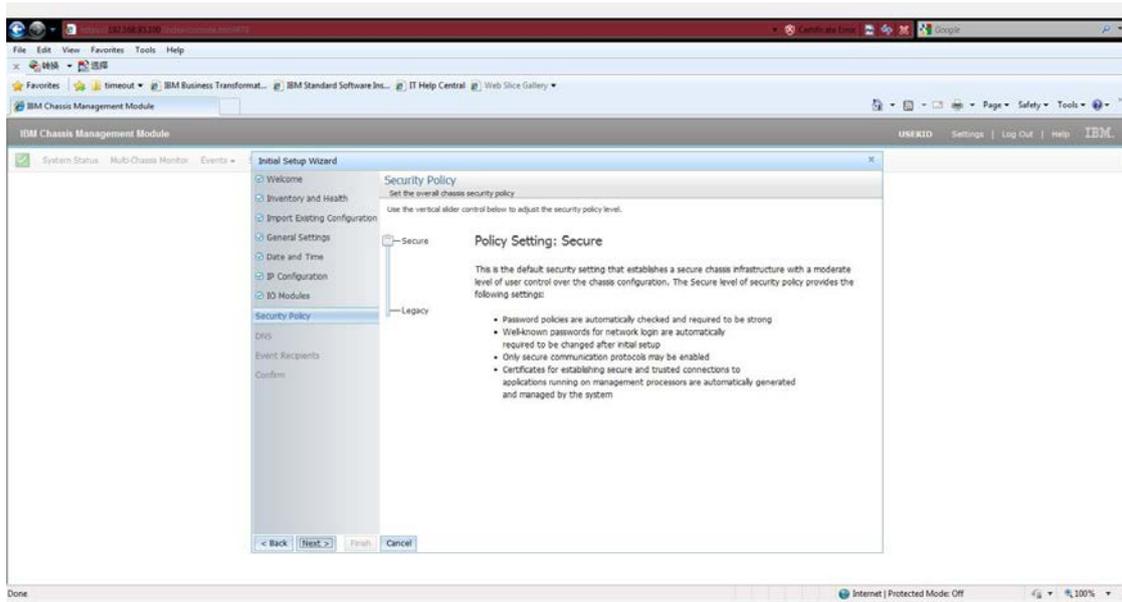
Device Name	Device Type	Health Status	Bay	Machine Type	Serial Number
Power Module 4	Power Module	Normal	4		ZK10811CP00W
Power Module 5	Power Module	Normal	5		ZK10811CP01C
Power Module 6	Power Module	Normal	6		ZK10811C00C
Cooling Device 1	Cooling Device	Normal	1		YK10JPC3L125
Cooling Device 2	Cooling Device	Normal	2		YK10JPB39217
Cooling Device 3	Cooling Device	Normal	3		YK10JPB39259
Cooling Device 4	Cooling Device	Normal	4		YK10JPB39217
Cooling Device 5	Cooling Device	Normal	5		YK10JPC35236
Cooling Device 6	Cooling Device	Normal	6		YK10JPC3L108
Cooling Device 7	Cooling Device	Normal	7		YK10JPB39218
Cooling Device 8	Cooling Device	Normal	8		YK10JPB39218
Cooling Device 9	Cooling Device	Normal	9		YK10JPB39218
Cooling Device 10	Cooling Device	Normal	10		YK10JPC25296
IO Module 1	IO Module	Normal	1		Y250V7215294

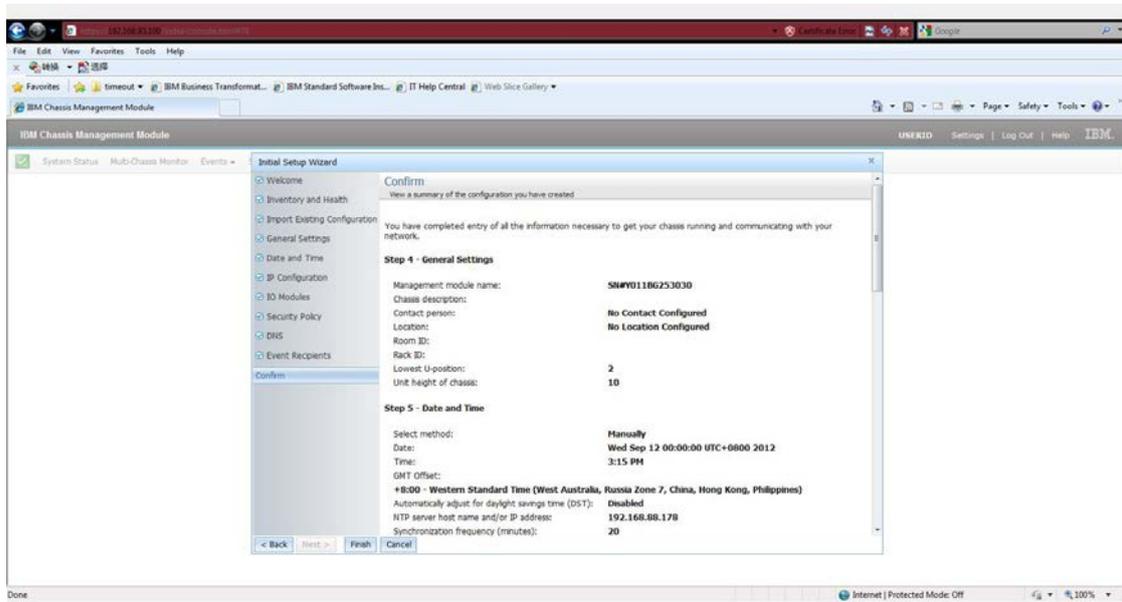
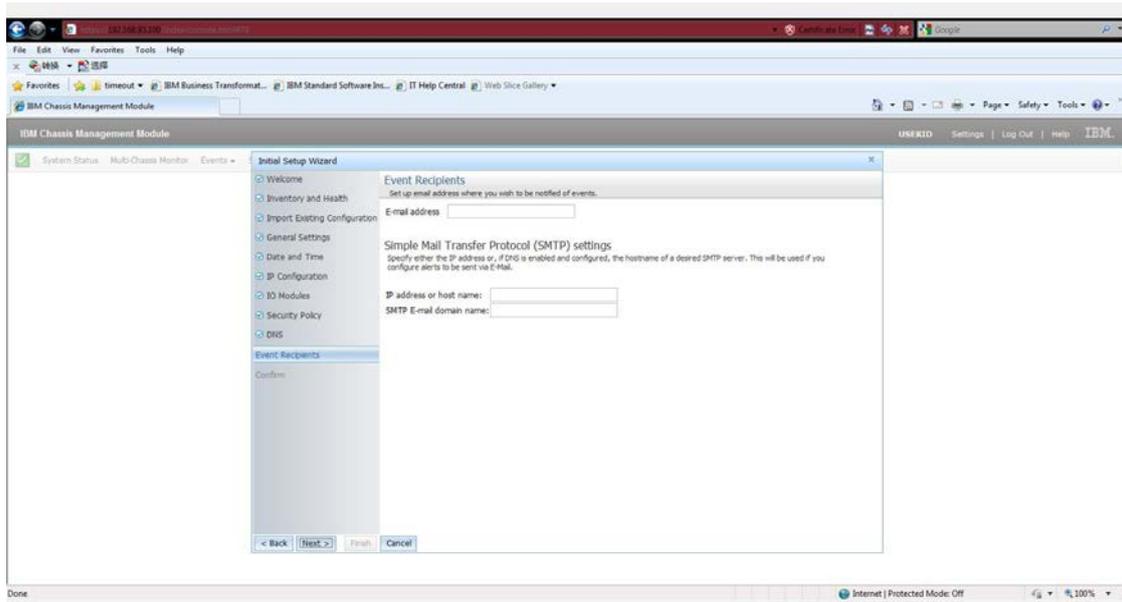
< Back Next > Refresh Cancel

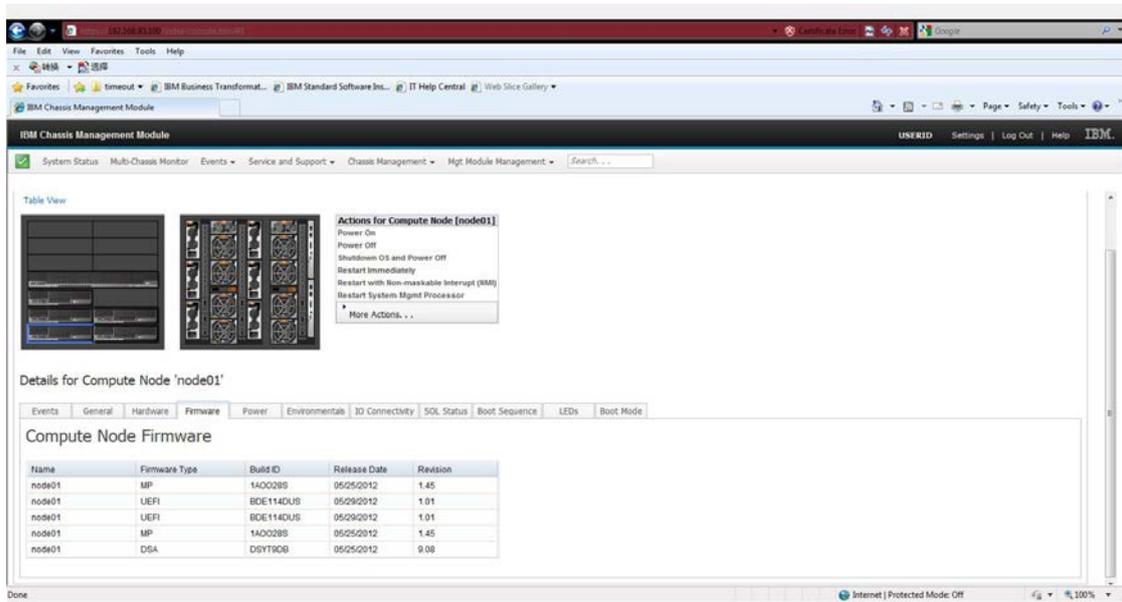
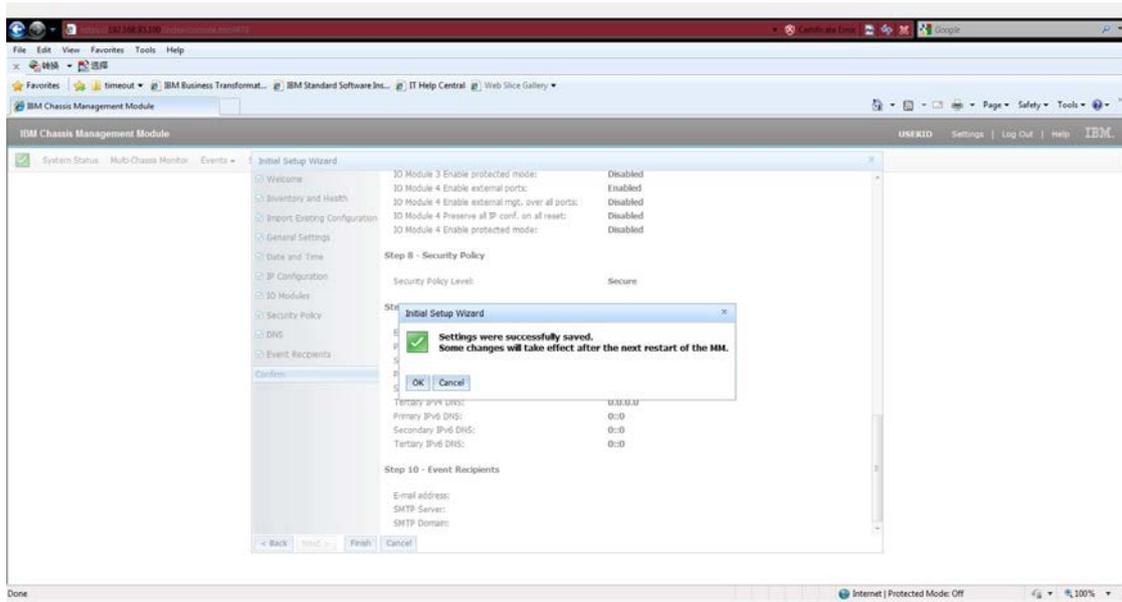












## 1.2 检查系统硬件配置

登录 CMM，选择“Chassis Management”>“Hardware Topology”

## 2 Green Light Check

检查硬件状态，各部分的 Firmware 等。

---

## 3 网络信息检查

---

检查各 CMM，FSM，计算节点，SAN 交换机，V7000 等 IP 信息。

---

## 4 存储配置

---

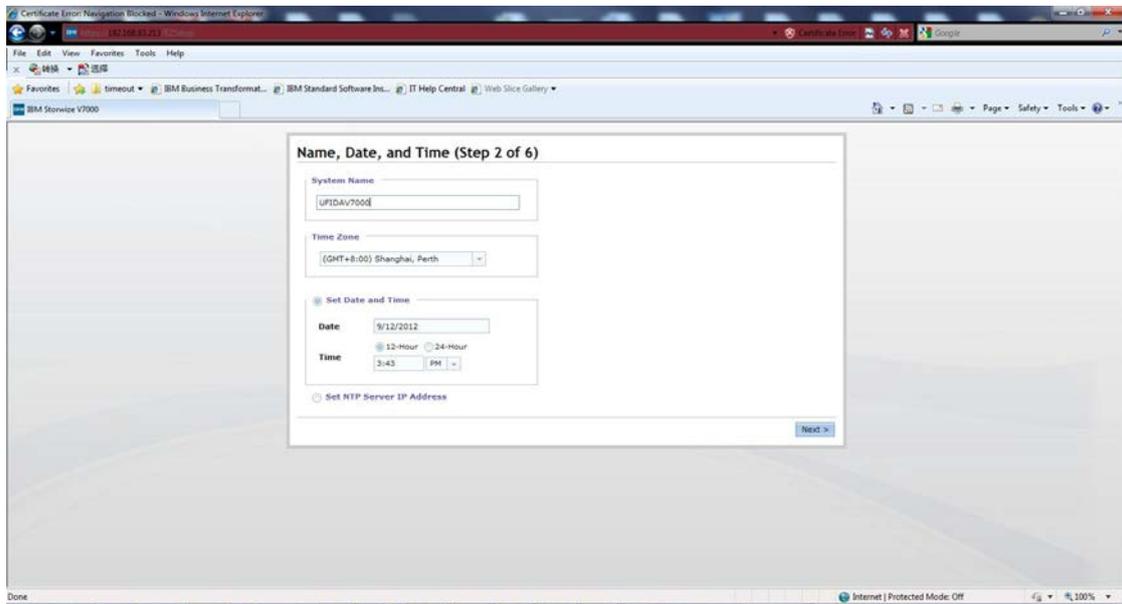
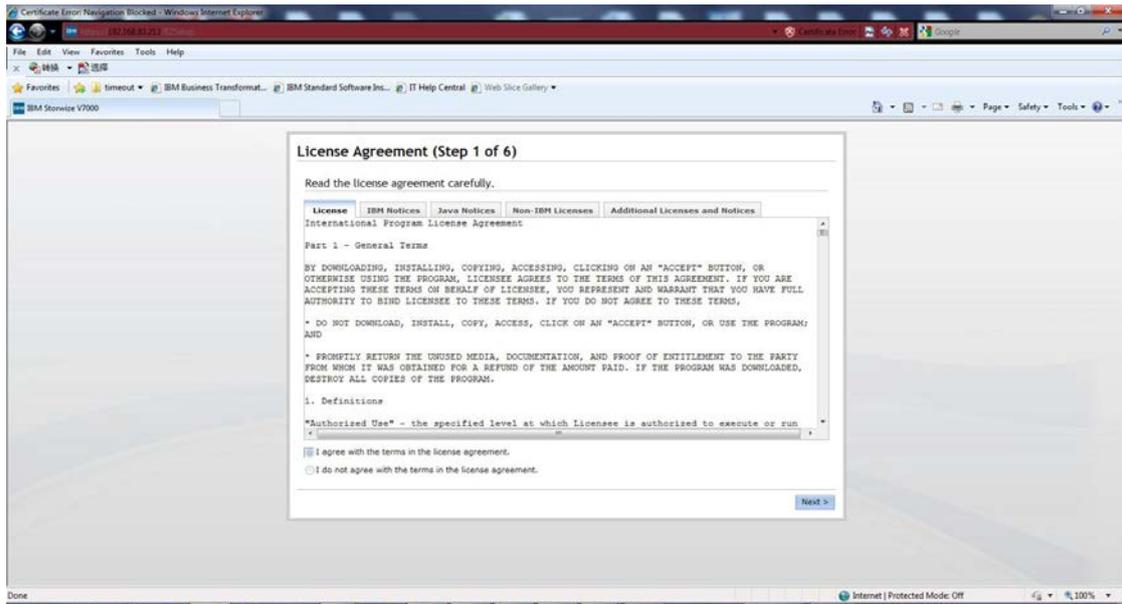
### 4.1 检查 SAN 交换机配置

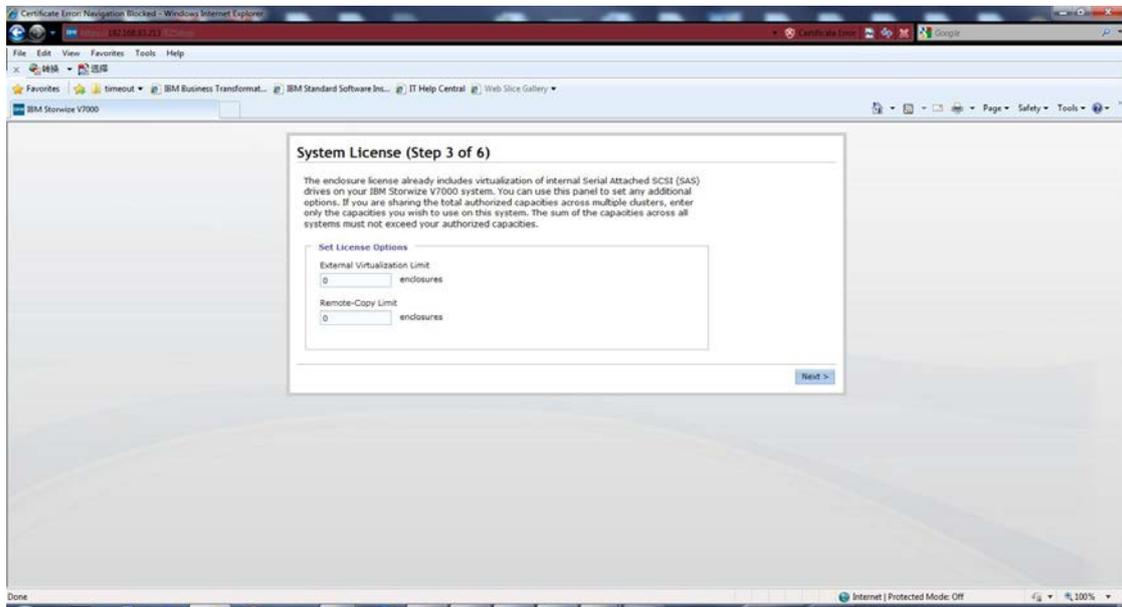
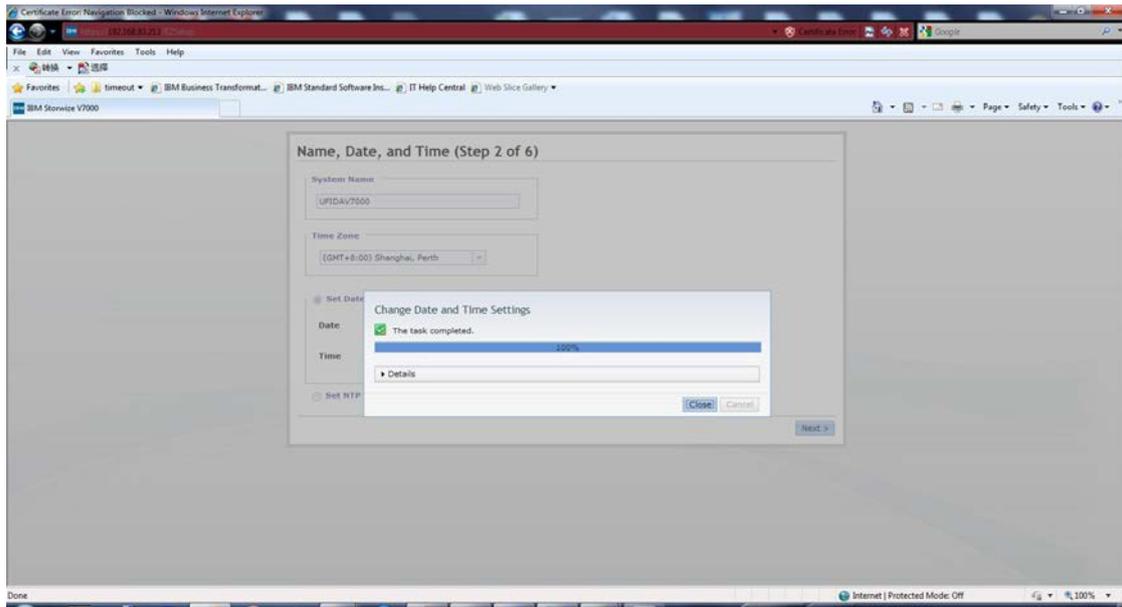
登录 SAN 交换机，查看各计算节点的 WWN 是否已经被识别，zone 信息是否正确。

### 4.2 V7000 存储初始化

使用默认 IP 登录 V7000







Certificate Error: Navigation Blocked - Windows Internet Explorer

File Edit View Favorites Tools Help

192.168.85.213

IBM Storwize V7000

### Configure Support Notifications (Step 4 of 6)

To ensure your system continues to run smoothly you can enable email event notifications.

Email event notifications send messages about error, warning, or informational events and inventory reports to an email address of local or remote support personnel. Ensure that all the information is valid, otherwise email notification will be disabled.

[Configure Email Event Notifications](#)

[Watch e-Learning: Configure Support Notifications](#)

[Next >](#)

Done

Internet | Protected Mode: Off

100%

Certificate Error: Navigation Blocked - Windows Internet Explorer

File Edit View Favorites Tools Help

192.168.85.213

IBM Storwize V7000

### Hardware (Step 5 of 6)



Use this graphic of the attached hardware to verify that all the installed enclosures and drives have been detected by the system. If the enclosure is not displayed, ensure that it is cabled correctly and is powered on. Click the enclosure to view details.

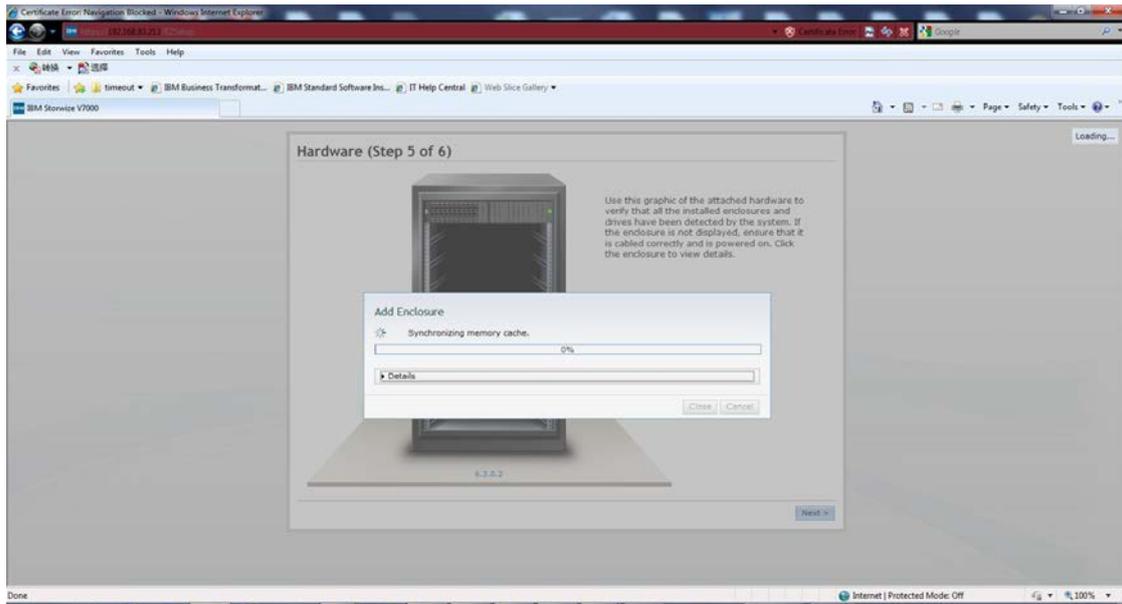
6.3.0.2

[Next >](#)

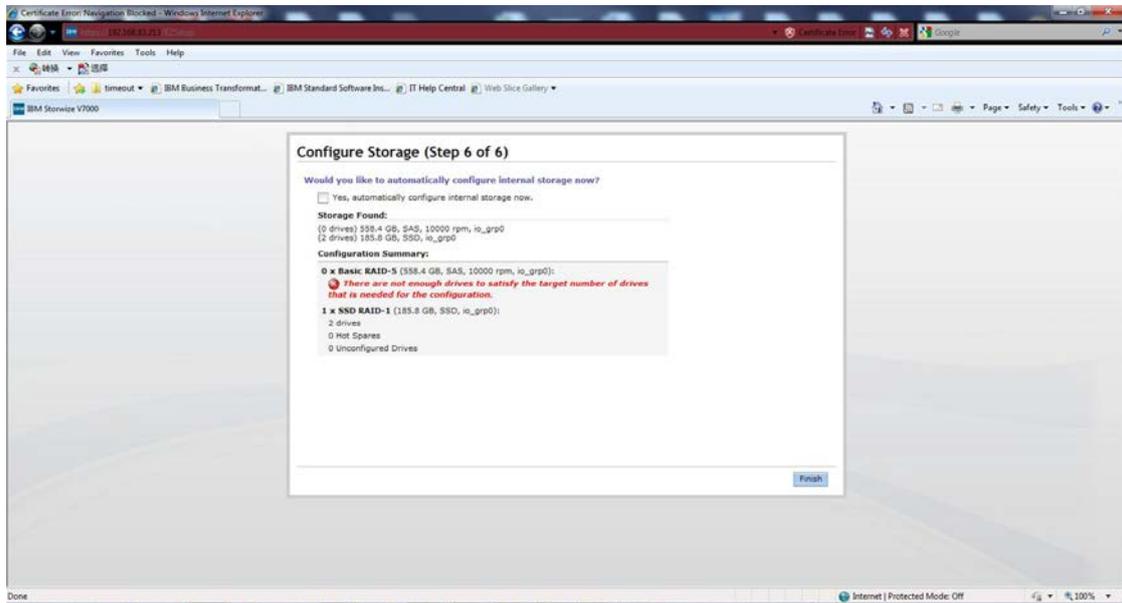
Done

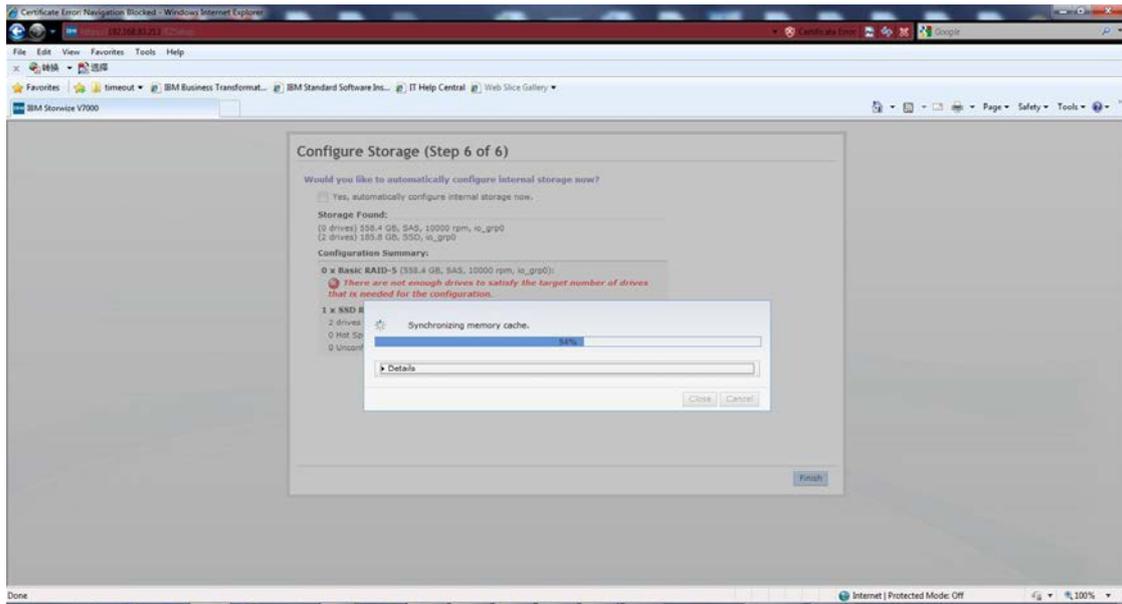
Internet | Protected Mode: Off

100%



**注意: DO NOT CHECK THE “AUTOMATICALLY CONFIGURE INTERNAL STORAGE NOW” CHECK BOX UNDER ANY CIRCUMSTANCES.**  
**Checking the “Automatically Configure Internal Storage Now” box will wipe out any storage preconfiguration done at the factory and cause you to re-configure and re-load it manually.**





### 4.3 添加 V7000 作为 FSM 的受管节点

该步需要在 FSM 初始化完成之后执行。

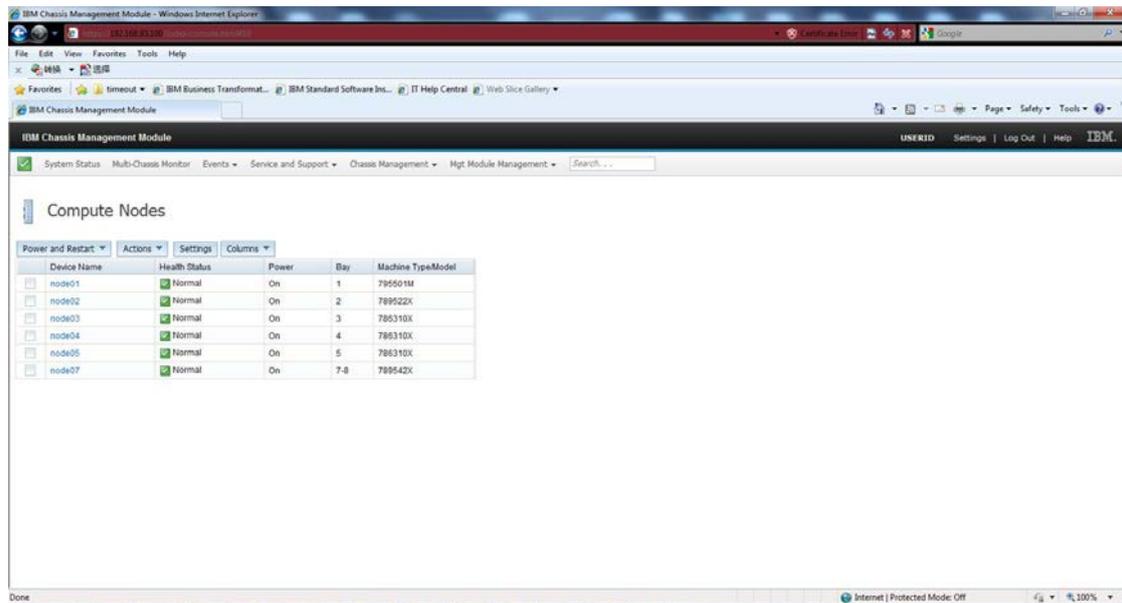
登录 FSM CLI 界面，执行如下命令：

```
smcli manageV7000 [-u | userid admin_user_name] [-p | -password admin_password] [-i | -ipaddress V7000_ip_address]
```

```
Error: Invalid command or invalid bundle and command combination.
Please run "smcli lsbundle" to get a list of valid commands.
USERID@FSM-5CF3FC5F758D:~> smcli manageV7000 -u superuser -p passwd -i 192.168.93.213
USERID@FSM-5CF3FC5F758D:~> smcli manageV7000 -u superuser -p passwd -i fd8c:215d:178e:c0de:e61f:13ff:fe76:85ed
USERID@FSM-5CF3FC5F758D:~> smcli manageV7000 -u superuser -p passwd -i fd8c:215d:178e:c0de:e61f:13ff:fe76
USERID@FSM-5CF3FC5F758D:~> smcli manageV7000 -u superuser -p passwd -i fd8c:215d:178e:c0de:e61f:13ff:fe76
Generating SSH keys for admin using command: su USERID -c "ssh-keygen -t rsa -N '' -f /home/USERID/.ssh/id_
n
SSH public key for admin was generated successfully
-
Pushing SSH public key for admin to V7000 using command: su superuser -c "scp -o StrictHostKeyChecking=no -
8e:c0de:e61f:13ff:fe76:85ed\]:/tmp/id_rsaV7000.pub "
SSH public key for admin was pushed to the V7000 successfully
Assigned SSH public key file to admin.
Issue mkdatasource command: /usr/smrshbin/scli mkdatasource -c svc -f /home/USERID/.ssh/id_rsaV7000 -v V7
s
mkdatasource was successful
lCollect inventory of Farm resource.
V7000 with management address: fd8c:215d:178e:c0de:e61f:13ff:fe76:85ed was managed succesfully.
rUSERID@FSM-5CF3FC5F758D:~> █
```

## 5 FSM 初始化配置

通过 CMM 登录 FSM。



IBM Chassis Management Module - Windows Internet Explorer

192.168.93.150

File Edit View Favorites Tools Help

IBM Chassis Management Module

System Status Multi-Chassis Monitor Events Service and Support Chassis Management Mgt Module Management Search...

### Compute Nodes

Power and Restart Actions Settings Columns

Device Name	Launch Compute Node Console	Power	Bay	Machine Type-Model
node01	Identify LED	On	1	795501M
node02	Normal	On	2	795522X
node03	Normal	On	3	785310X
node04	Normal	On	4	785310X
node05	Normal	On	5	785310X
node07	Normal	On	7-8	795542X

Done

Internet | Protected Mode: Off

IBM Chassis Management Module - Windows Internet Explorer

192.168.93.150

File Edit View Favorites Tools Help

IBM Chassis Management Module

System Status Multi-Chassis Monitor Events Service and Support Chassis Management Mgt Module Management Search...

### Compute Nodes

Power and Restart Actions Settings Columns

Device Name	Health Status	Power	Bay	Machine
node01	Normal	On	1	795501M
node02	Normal	On	2	795522X
node03	Normal	On	3	785310X
node04	Normal	On	4	785310X
node05	Normal	On	5	785310X
node07	Normal	On	7-8	795542X

Launch Compute Node Console

Interface IP: 192.168.93.150

Context: Remote Presence

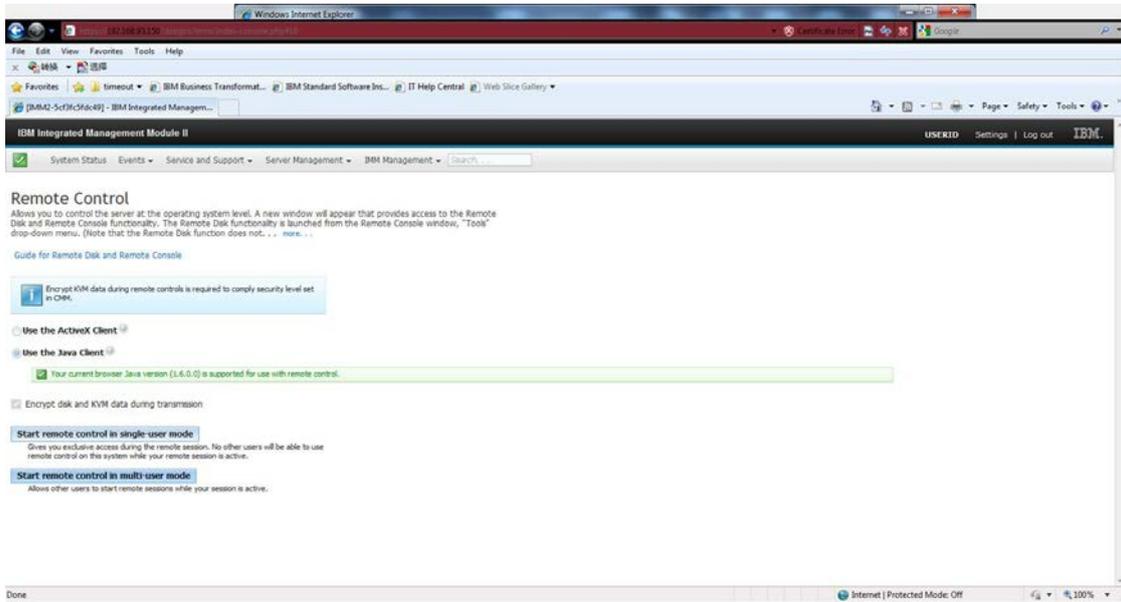
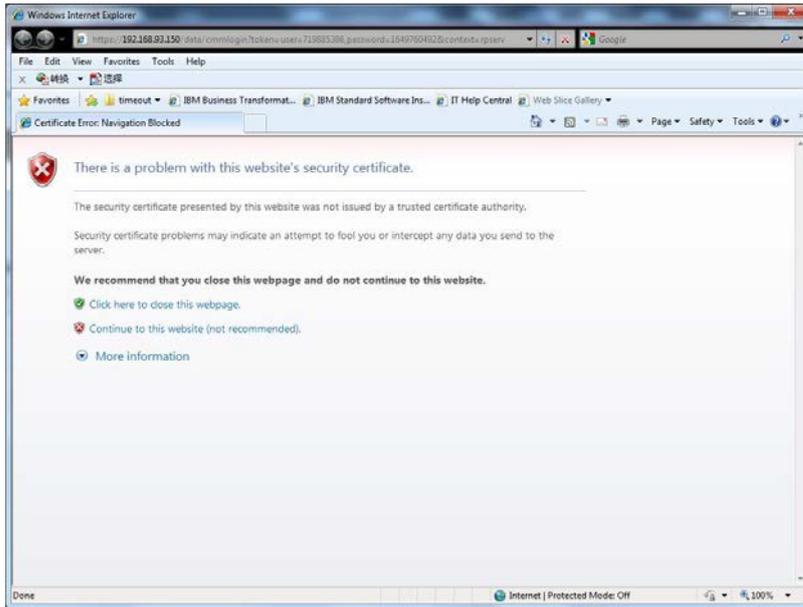
Protocol: HTTPS

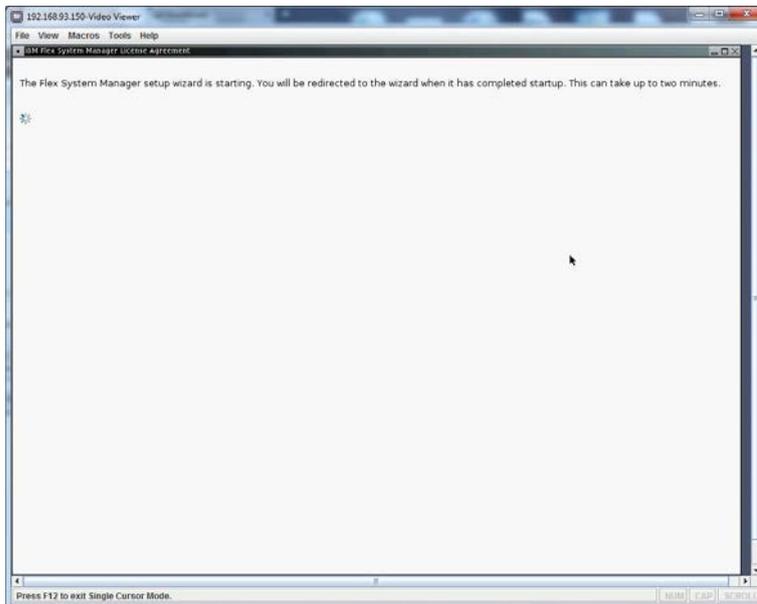
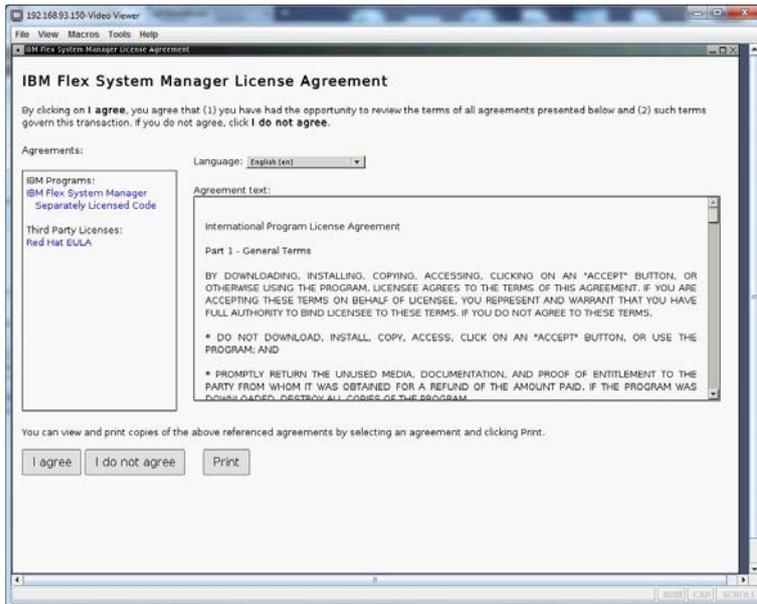
Temporarily expires in 50second(s) if the Launch button is not clicked.

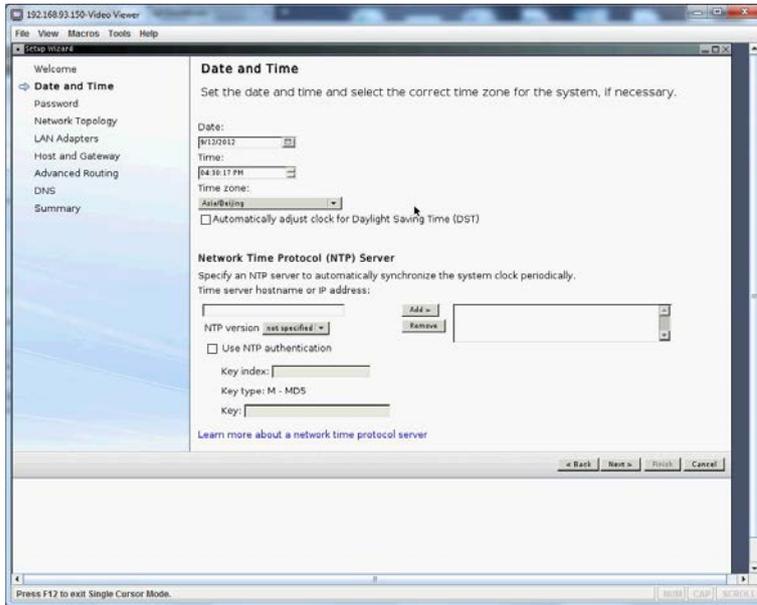
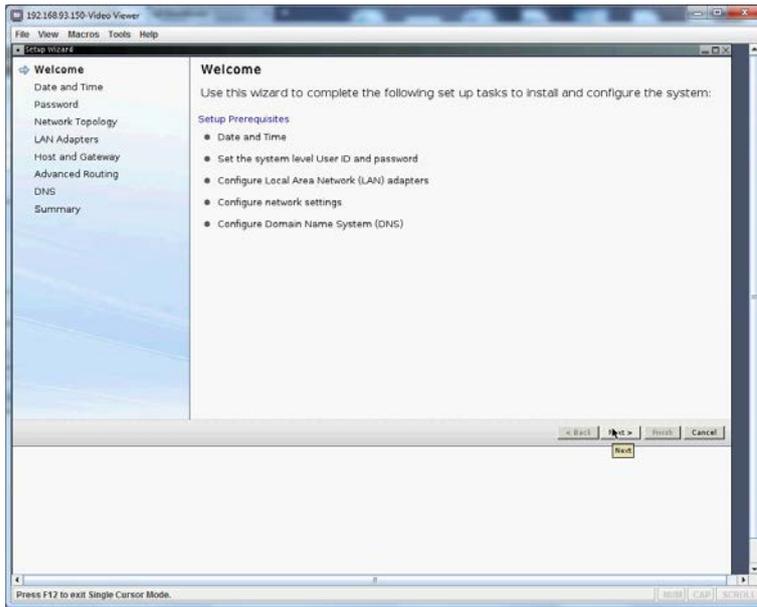
Launch Close

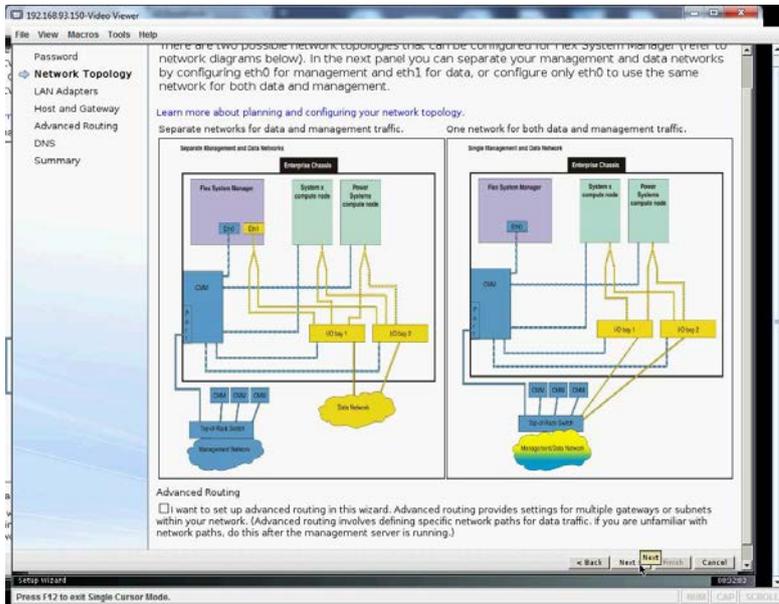
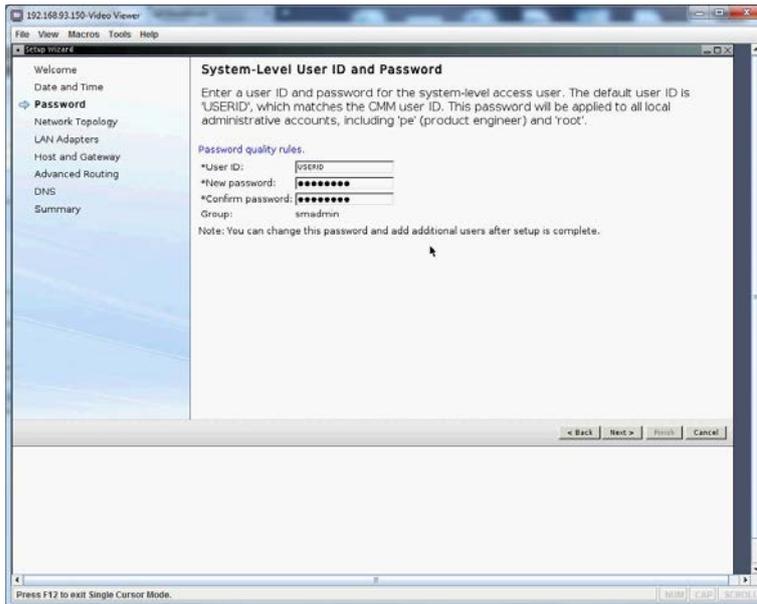
Done

Internet | Protected Mode: Off

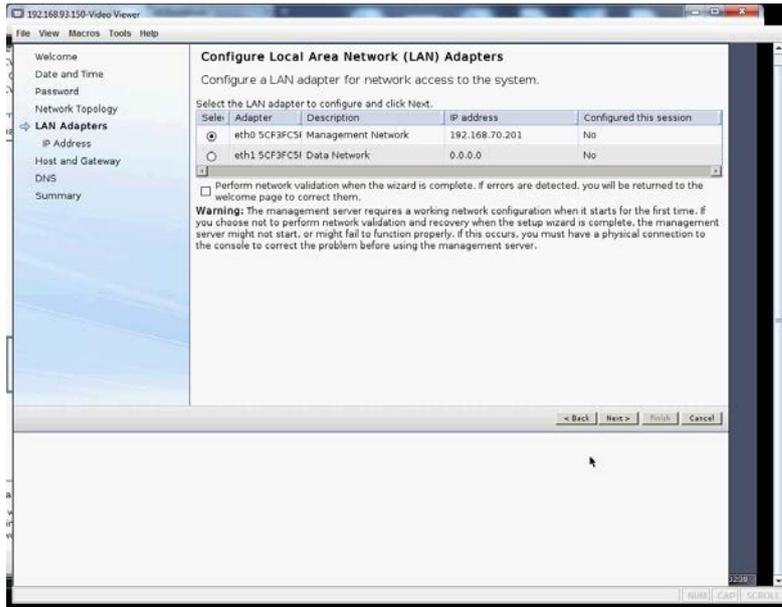




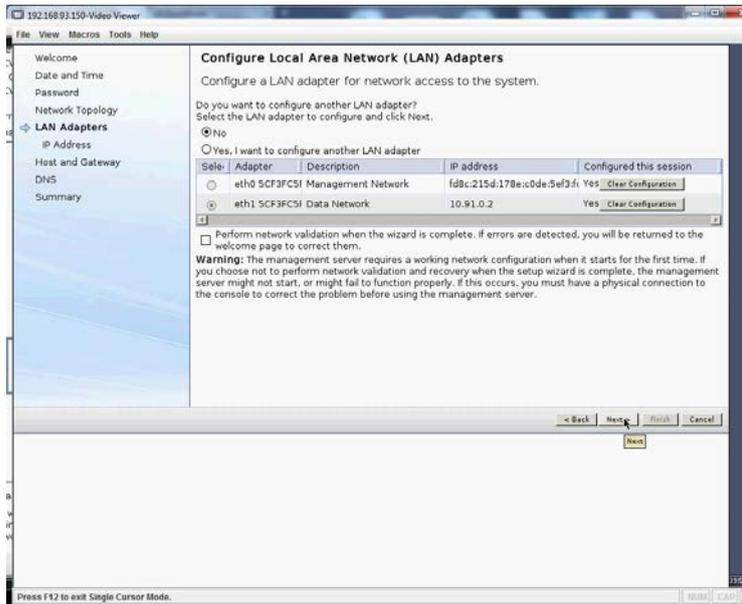
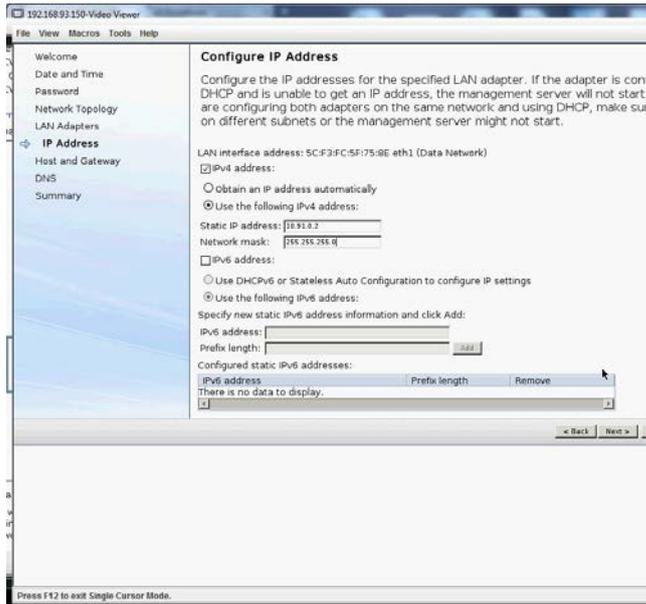


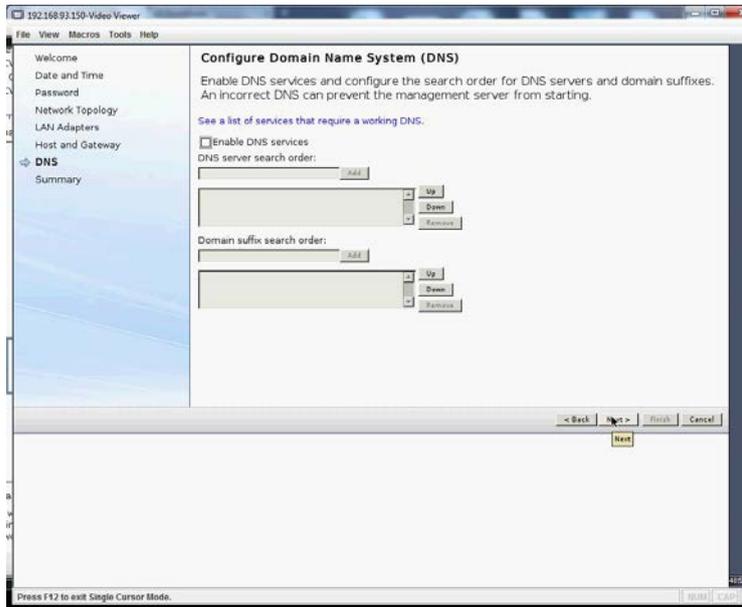
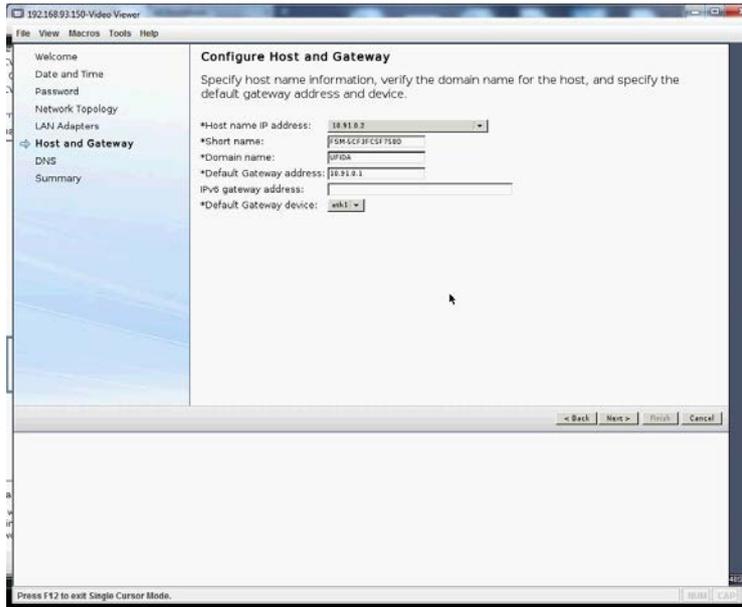


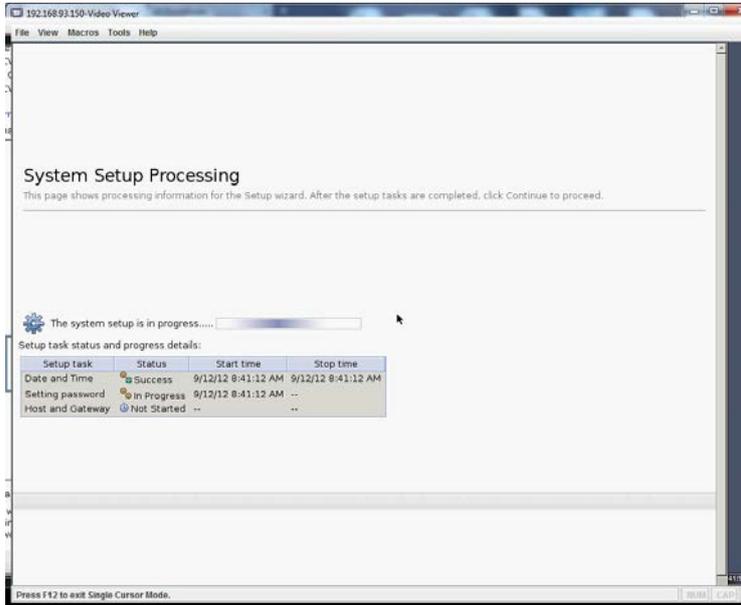
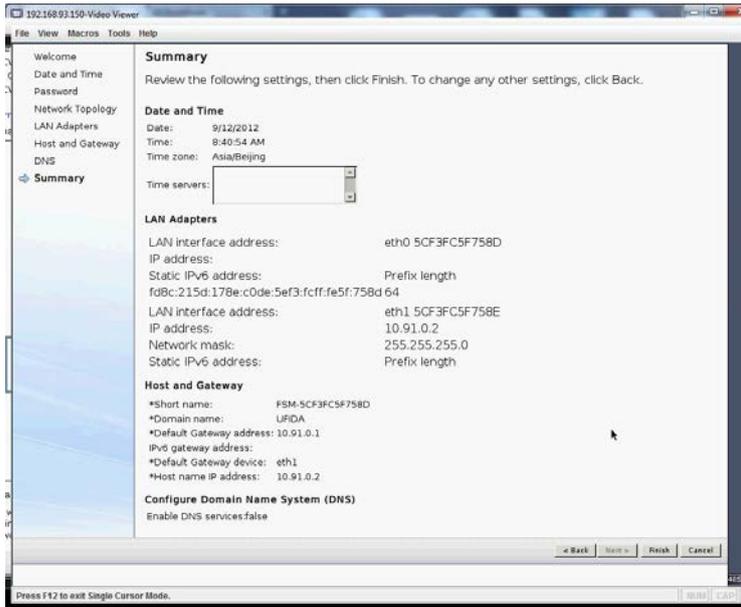
配置 eth0 的 IP

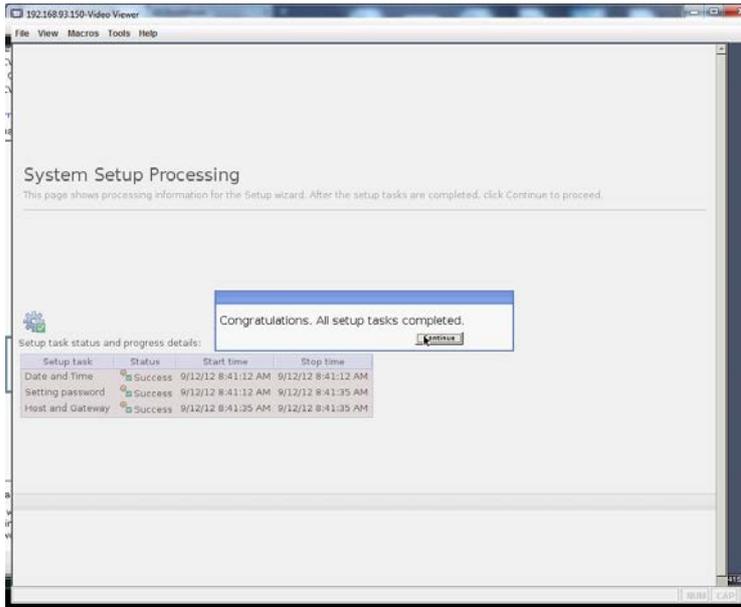


配置 eth1 的 IP

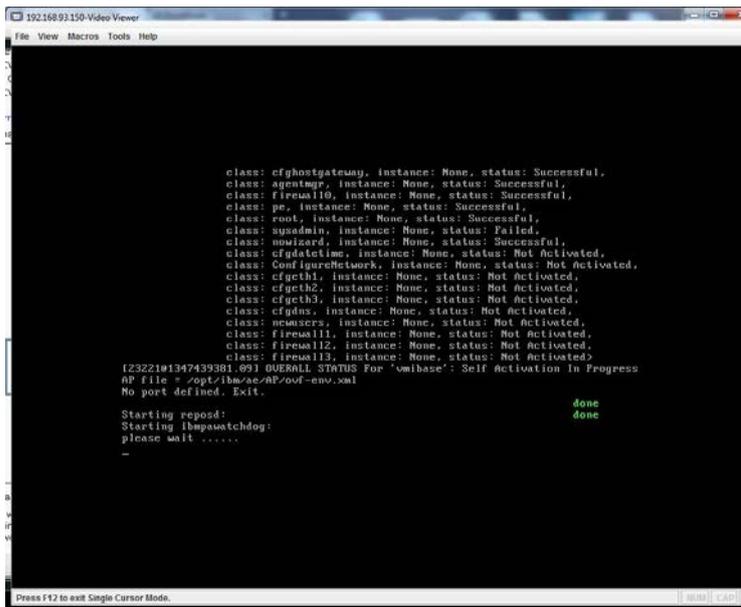


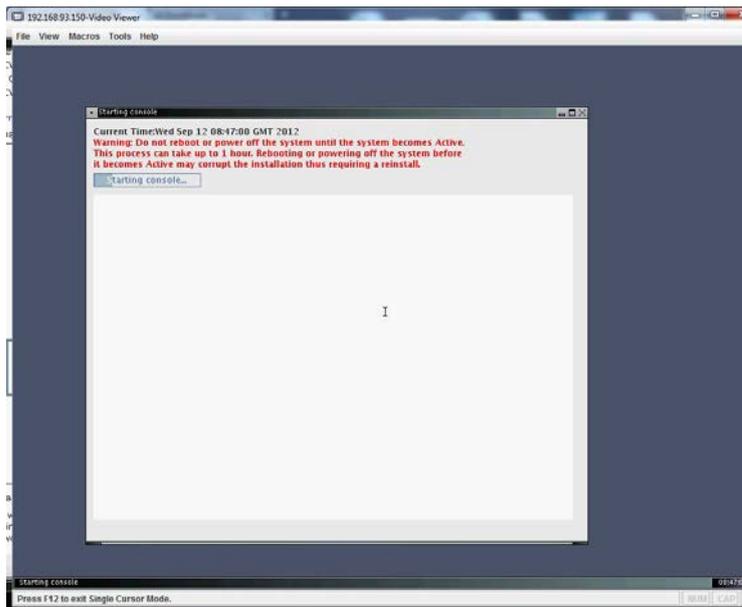






## FSM 会自动重启





至此，初始化完成。

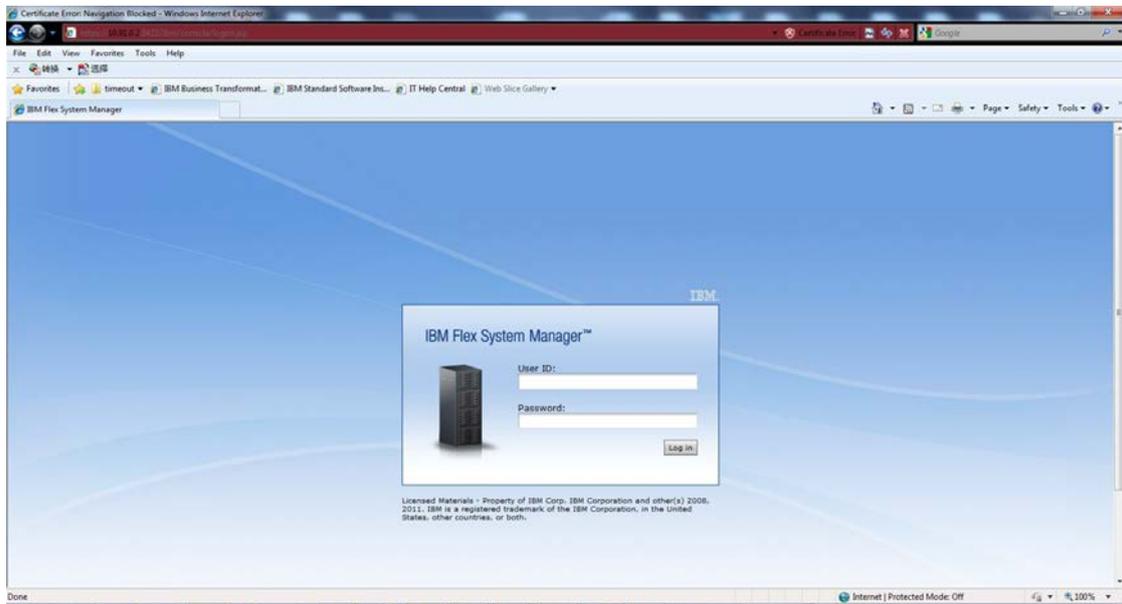
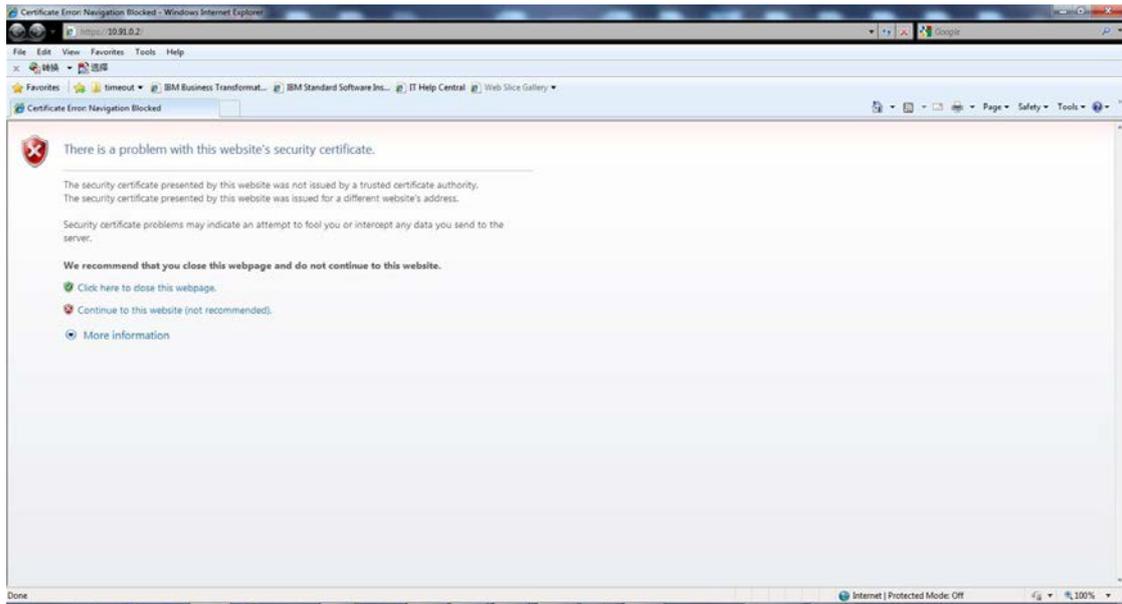
---

## 6 对 FSM 进行 collect inventory

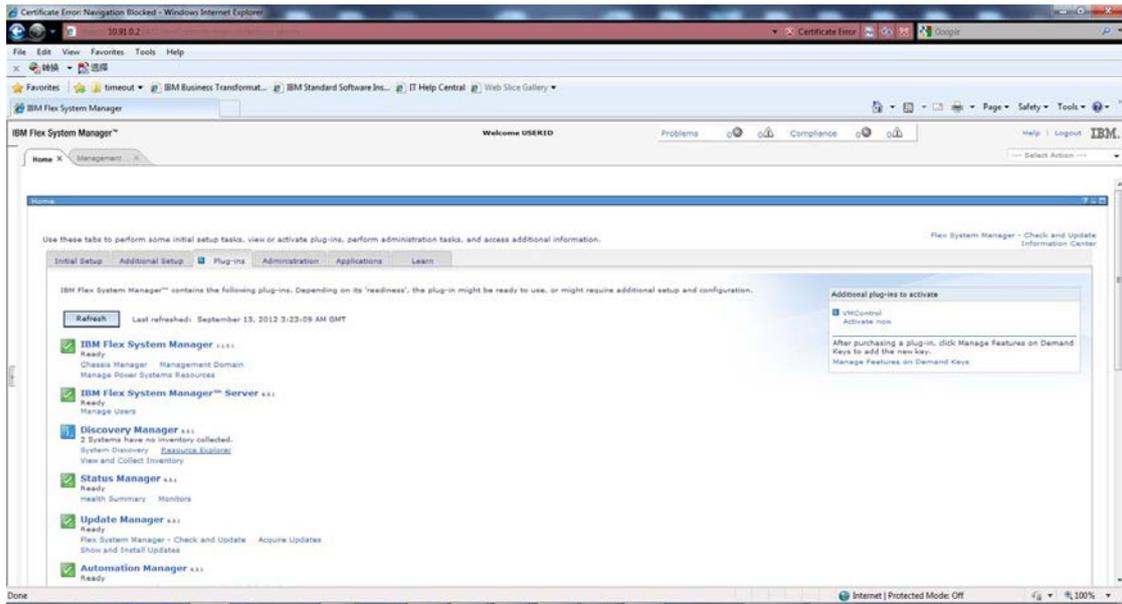
---

通过 FSM 发现并管理所有节点信息。

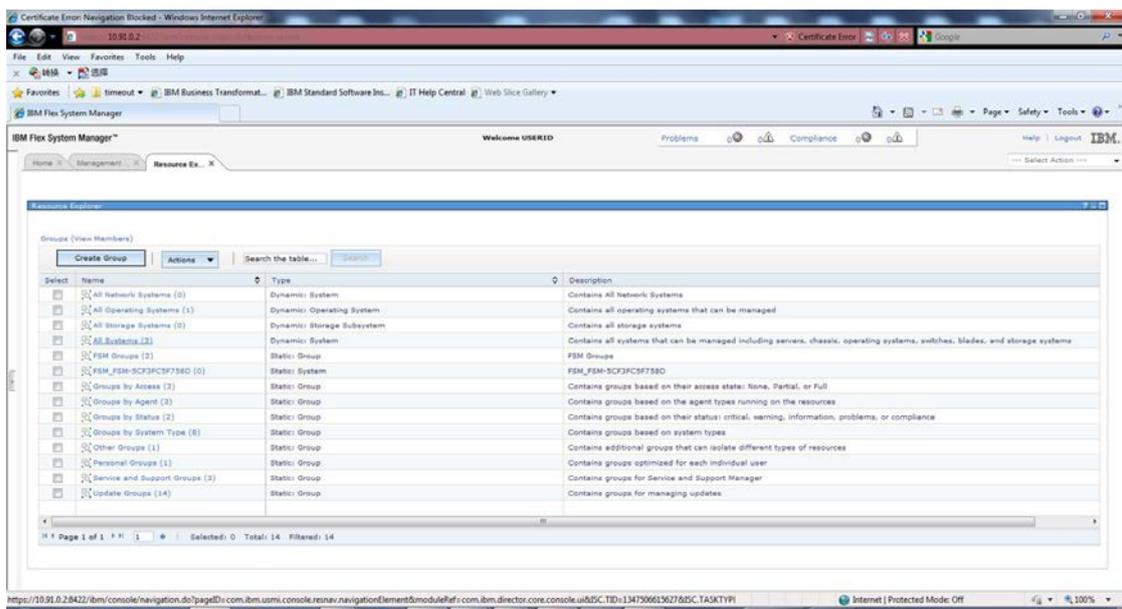
使用配置在 FSM eth1 的 IP 登录。







Discovery Manager > Resource Explorer> All Systems



You should see 3 items discovered: OS, Server, and Farm. Ensure all have OK access.

Certificate Error: Navigation Blocked - Windows Internet Explorer

19.91.0.2

File Edit View Favorites Tools Help

IBM Flex System Manager

Welcome USERID

Problems Compliance

Home Management Resource Ex.

Resource Explorer

Groups > All Systems (View Members)

Actions Search the table...

Select	Name	Type	Access	Problems	Compliance	IP Address	OS Type	OS Version	Description
<input type="checkbox"/>	FSM-5CF3CF3F758D-1F1DA	Operating System	OK	OK	OK	10.91.0.2, f8bc215d-178e-40de-9af3-af5f758d	Appliance	1.1.0.1	
<input type="checkbox"/>	FSM-5CF3CF3F758D-1F1DA	Farm	OK	OK	OK				
<input type="checkbox"/>	IBM 795501M 1033248	Server	OK	OK	OK	10.3.0.1, 192.168.93.150			IBM 795501M 10332

Page 1 of 1 Total: 3 Filtered: 3

Internet | Protected Mode: Off

Certificate Error: Navigation Blocked - Windows Internet Explorer

19.91.0.2

File Edit View Favorites Tools Help

IBM Flex System Manager

Welcome USERID

Problems Compliance

Home Management Resource Ex.

Resource Explorer

Groups > All Systems (View Members)

Actions Search the table...

- Topology Perspectives
- Create Group
- Add to
- Automation
- Inventory
  - View and Collect Inventory
- Security
- System Configuration
- System Status and Health
- Service and Support
- All Systems
- Import Groups
- Columns
- Export
- Select All
- Deselect All
- Show Filter Row
- Clear All Filters
- Edit Sort
- Clear All Sorts

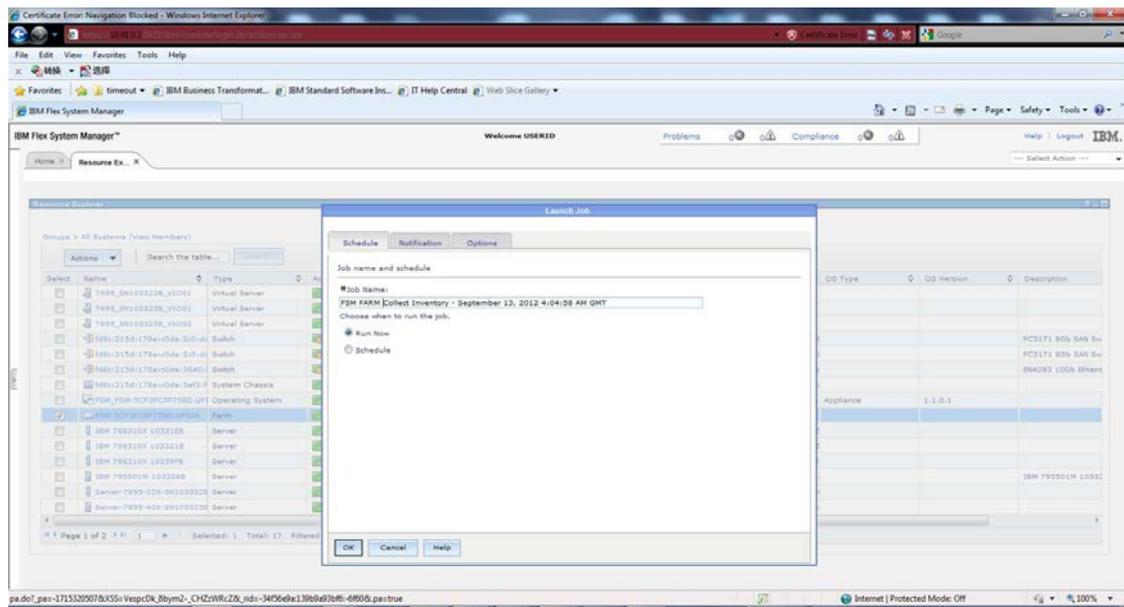
Select	Name	Type	Access	Problems	Compliance	IP Address	OS Type	OS Version	Description
<input type="checkbox"/>	FSM-5CF3CF3F758D-1F1DA	Operating System	OK	OK	OK	10.91.0.2, f8bc215d-178e-40de-9af3-af5f758d	Appliance	1.1.0.1	
<input type="checkbox"/>	FSM-5CF3CF3F758D-1F1DA	Farm	OK	OK	OK				
<input type="checkbox"/>	IBM 795501M 1033248	Server	OK	OK	OK	10.3.0.1, 192.168.93.150			IBM 795501M 10332

Selected: 3 Total: 3 Filtered: 3

Internet | Protected Mode: Off

javascript:menuItemLaunchAction();





Resource Explorer

Groups > All Systems (View Members)

Actions | Search the table... Search

Select	Name	Type	Access	Problems	Compliance
<input type="checkbox"/>	isvngp1fsm1.storage.tucson.ibm.com	Farm	OK	OK	OK
<input type="checkbox"/>	ISVNGP1VIO51	Virtual Server	OK	OK	OK
<input type="checkbox"/>	isvx11.storage.tucson.ibm.com	Operating Sys...	OK	OK	OK
<input type="checkbox"/>	isvx5.storage.tucson.ibm.com	Operating Sys...	OK	OK	OK
<input type="checkbox"/>	isvx8.storage.tucson.ibm.com	Operating Sys...	OK	OK	OK
<input type="checkbox"/>	isvx9.storage.tucson.ibm.com	Operating Sys...	OK	OK	OK
<input type="checkbox"/>	RHEL 6.1	Virtual Server	OK	OK	OK
<input type="checkbox"/>	Server-7895-22X-SN100B36B	Server	Partial access	OK	OK
<input type="checkbox"/>	SRM-Server-Secondary	Virtual Server	OK	OK	OK
<input type="checkbox"/>	Storwize V7000-2076-ISV7K2-IBM	Storage Array	OK	Warning	OK
<input checked="" type="checkbox"/>	Storwize V7000-2076-ISV7K3-IBM	Storage Array	OK	Warning	OK
<input type="checkbox"/>	VM1	Virtual Server	OK	OK	OK

发现 V7000 之后，再对 V7000 进行收集资产。使 FSM 识别 V7000 信息。

## 8 X 节点 VMware 虚拟化部署

在 X Node 安装 VMware 的步骤:

- 1、在 CMM 里找到 X Node,通过 IMM 登录,启动 Remote Control
- 2、重启该节点
- 3、重启的过程中按 F12, 选 Boot Device
- 4、选择 USB1..Hypervisor., 让机器通过内置 USB 的 VMware 启动。
- 5、机器会自动安装 ESXi

可以从 V7000 划分 LUN 映射给所有 X 节点的 ESXi。