

IPMI/IKVM/IDRAC/IBMC Configuration

CJ1 Data Center – Vlan 998

Dell switch configuration

1) Dell switchport configuration

```
conf t
int fa0/1
switchport
no shut
exit
int vlan 998
untagged fa0/1
```

2) Server DHCP configuration

- Access to server's bios
- Change IPMI IP configuration to DHCP mode
- Save configuration and reset
- Retrieve IPMI IP from server's bios

3) Dell switchport configuration

```
conf t
int fa0/1
description servertag_IPMI_IP      eg: 8888_IPMI_172.20.0.1
write mem
```

Cisco switch configuration

1) Cisco switchport configuration

```
conf t
int fa0/1
switchport mode access
switchport access vlan 998
ip arp inspection trust           #refer explanation
no shut
```

2) Server DHCP configuration

- Access to server's bios
- Change IPMI IP configuration to DHCP mode
- Save configuration and reset
- Retrieve IPMI IP from server's bios

3) Cisco switch configuration

```
conf t
int fa0/1
description servertag_IPMI_IP      eg: 8888_IPMI_172.20.0.1
write mem
```

CX2 and AIMS Data Center – No specified Vlan

Request IKVM IP detail from network team.

Please take note that CX2 does not support IPMI DHCP function.

Dell switch configuration

1) Dell switchport configuration

```
conf t
int fa0/1
description servertag_IPMI_IP      eg:8888-C1209_IPMI_14.102.5.1
switchport
speed 10
ip access-group IKVM_FILTER in
no shut
exit
int vlan 702
untagged fa0/1
write mem
```

Cisco switch configuration

1) Cisco switchport configuration

```
conf t
int fa0/1
description servertag_IPMI_IP      eg:8888-C1209_IPMI_14.102.5.1
switchport mode access
switchport access vlan vlanNo      eg:switchport access vlan 702
speed 10
ip access-group IKVM_FILTER in
ip arp inspection trust              #refer explanation
no shut
write mem
```

Server IPMI static configuration

- Access to server's bios
- Configure IPMI in static mode by type in IP, subnet mask and gateway
- Save configuration and reset

IPRobot Update

1) Open particular server tag information >> Press on EDIT bar

EDIT **GRAPH** **RELEASE** **EDIT BOOKING STATUS**

Booking Status Switches Hardware Configuration IP & MAC address Server Component Server Monitoring PWR Control/ Provision History

Booking Status

Status	Remarks	Subscription ID	Customer Name	Cust Self Managed	End Date	Invoiced Date
OCCUPIED	Thai Sun Event Zone	SS0004502	Thai Sun Event Zone	N		

SVR ID#	Primary IP	Data Center	Rack	RU
14563		Malaysia, CJ1, IPSERVERONE	1F-B09	9

Relocation / Removal from Rack

TAG	Short Description	Server Label	Server Info
7401.C1711	Dell PowerEdge R430	103.197.57.209	

2) Update KVM Details

KVM Details

IPMI Server	CJ1-KVM-01
IPMI Type	Dell IDRAC
iKVM IP	172.20.0.88
KVM MAC Address	d0:94:66:1f:bd:3e
Username	root
Password	*****
IPMI test	<div>Remove IPMI Setting Update IPMI Setting</div>

Press update IPMI setting after filling all the information

3) Check IPMI username and password

KVM Details

IPMI Server	CJ1-KVM-01
IPMI Type	Dell IDRAC
iKVM IP	172.20.0.88
KVM MAC Address	d0:94:66:1f:bd:3e
Username	root
Password	*****
IPMI test	<div>Remove IPMI Setting Update IPMI Setting</div>

IPMI password

```
sudo ssh -p 9321 root@103.197.57.4 "ipmitool -H 172.20.0.88 -U 'root' -P 'tF68DSgJFVDZ6Nm2' power status"
```

IKVM access – CJ1 data center

EDIT GRAPH RELEASE EDIT BOOKING STATUS

Booking Status Switches Hardware Configuration IP & MAC address Server Component Server Monitoring PWR Control/ Provision History

Power Control / Provision

Power ON Power OFF Power Reset Power Status **iKVM Login**

IPMI IP:	IPMI MAC Address:	Boot Master:	IPMI Gateway:
172.20.0.88	d0:94:66:1f:bd:3e	CJ1-BOOTMASTER	CJ1-KVM-01 103.197.57.4

Property	Current Value	Next Value	Action
Boot Master Server	CJ1-BOOTMASTER	CJ1-BOOTMASTER	
Next Boot Up Mode	NORMAL	NORMAL	

After press iKVM login, there is one new tab appear

https://iprobot.ipserverone.net/server_ipmi_access.php?key=a7aa69d39817efd9d2fd2e1... — □ ×

Secure | https://iprobot.ipserverone.net/server_ipmi_access.php?key=a7aa69d39817efd9d2f... 🔍


Please copy the following username and password, and click on the Login Now button to start an IPMI session

Username: root
Password: tF68DSgJFVDZ6Nm2

login now → Press login now

7401-C1711 - iDRAC8 - Login - Google Chrome

Not secure | https://103.197.57.4/login.html

 Integrated Dell Remote Access Controller 8 Enterprise

Login

7401-C1711 | PowerEdge R430
Type the Username and Password and click Submit.

Username:

Password:

Domain:

Cancel Submit

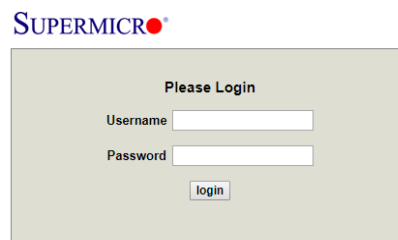
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Please login with username and password for verification.

IKVM access – Aims and CX2 data center

Condition 1: If you are using network from office/control room/VPN access

Open a new browser and type in ikvm IP in url address bar. Login by using username and password for verification purpose.

A screenshot of a login page for SUPERMICR. The page has a light beige background. At the top, the 'SUPERMICR' logo is displayed in blue text with a red dot. Below the logo, the text 'Please Login' is centered. There are two input fields: 'Username' and 'Password', each with a white text box. Below the 'Password' field is a small 'login' button with a grey border.

Condition 2: If you are using outside network/mobile data/without VPN access

Please perform below changes on the rack switch for particular port.

```
conf t
int fa0/1
no ip access-group IKVM_FILTER in
```

Then, open a new browser and type in ikvm IP in url address bar. Login by using username and password for verification purpose.

Please take note that, you have to revert back the switchport command for particular port.

```
conf t
int fa0/1
ip access-group IKVM_FILTER in
write mem
```

ARP inspection trust explanation

Currently ip arp inspection function only applied in cisco switch. Dell switch configuration will be update later after network team figure it out on how its work.

This command will be added in two conditions:

Condition 1 – Switch version

Some of the switch version may not support on arp inspection function due to version is outdated.

Example of switch not supporting arp inspection function:

```
cx2-ccl3-sw01(config-if)#ip arp ?  
% Unrecognized command  
cx2-ccl3-sw01(config-if)#ip arp inspection trust  
^  
% Invalid input detected at '^' marker.
```

Example of switch supporting arp inspection function:

```
Cx2-ccl0-sw01(config)#int Gi1/0/14  
Cx2-ccl0-sw01(config-if)#ip arp inspection trust  
Cx2-ccl0-sw01(config-if)#
```

Condition 2 – Check command

This arp inspection trust is not yet applying in all switch that located in all Data Center. Before you applying in this command, please cross check whether this switch is using this arp inspection function.

```
arp access-list VL602  
permit ip host 14.102.150.30 mac host 1866.da5f.b0a5  
permit ip host 14.102.150.29 mac host 1098.36a0.7b7f  
permit ip host 14.102.150.22 mac host 2047.478c.e98c  
arp access-list VL709  
permit ip host 103.10.157.184 mac host 1098.36b0.e29b  
permit ip host 103.10.157.185 mac host 1098.36b0.e26b  
permit ip host 103.10.157.186 mac host 1098.36b0.e43b  
permit ip host 103.10.157.188 mac host 1866.da99.7a3a  
permit ip host 103.10.157.187 mac host 1098.36b0.e427  
arp access-list VL711  
permit ip host 45.64.168.6 mac host 1098.36a1.86a7
```

arp access-list command show that arp inspection function is applied in this switch

If this command is appeared in switch when you *show configuration*, then only you apply *arp inspection trust* in switchport. Please inform network team after you apply the command, we have further step to go for configuration.

If this command doesn't appear in switch, you can ignore the *ip arp inspection trust* command.