

# IPMI (SuperMicro)

## Update your firmware

<ftp://ftp.supermicro.com/utility/IPMI%20FW%20flash%20tools/SMT/>

```
./lUpdate.sh -f SMT_X9_130.bin -i kcs -r n
```

## IPMICFG

[https://www.supermicro.com/SwDownload/SwSelect\\_Free.aspx?cat=IPMIftp://ftp.supermicro.com/utility/IPMICFG/](https://www.supermicro.com/SwDownload/SwSelect_Free.aspx?cat=IPMIftp://ftp.supermicro.com/utility/IPMICFG/)

Fonction	Commande
Show IP	ipmicfg -m
Show subnet mask	ipmicfg -k
Show Gateway	ipmicfg -g
Check FW	ipmicfg -vgr
Show VLAN	ipmicfg -vlan
Set VLAN on	ipmicfg -vlan on #VLAN
Set VLAN off	ipmicfg -vlan off
Check IPMI chipset	ipmicfg -selftest

Fonction	Commande
Set IP Static	ipmicfg -m 10.x.x.x
Set Subnet	ipmicfg -k 255.255.255.0
Set gateway	ipmicfg -g 10.x.x.1
Set DHCP off	ipmicfg -dhcp off
Set DHCP on	ipmicfg -dhcp on
Check fan mode	ipmicfg -fan
List users	ipmicfg -user list
Add user	ipmicfg -user add [user ID] [user name] [password] [privilege]
Del user	ipmicfg -user del [user id]
Change user passwd	ipmicfg -user setpwd [user ID] [password]
Change user pri	ipmicfg -user level [user ID] [privilege]

## Change LAN mode

Check the current mode:

```
./IPMICFG-Linux.x86_64 -raw 0x30 0x70 0x0c 0
```

```
# X9 ATE -raw 0x30 0x70 0x0c 0 X9 AM -raw 0x30 0x70 0x0c 0
```

The output will be one of these:

0x00 = Dedicated

0x01 = Onboard / Shared

0x02 = Failover

To set the mode to

Dedicated

```
./IPMICFG-Linux.x86_64 -raw 0x30 0x70 0xc 1 1 0
```

```
# X9 ATE -raw 0x30 0x70 0x0c 1 X9 AM -raw 0x30 0x70 0x0c 1 0
```

Shared

```
./IPMICFG-Linux.x86_64 -raw 0x30 0x70 0xc 1 1 1
```

```
# X9 ATE -raw 0x30 0x70 0x0c 1 X9 AM -raw 0x30 0x70 0x0c 1 1
```

Failover

```
./IPMICFG-Linux.x86_64 -raw 0x30 0x70 0xc 1 0 0
```

```
# X9 ATE -raw 0x30 0x70 0x0c 1 X9 AM -raw 0x30 0x70 0x0c 1 2
```

## IPMIView

<ftp://ftp.supermicro.com/utility/IPMIView/>

Install java JRE and open 'IPMIView20.jar' with the java bin

## IPMITOOL

Set next boot to PXE for next boot

```
ipmitool -I lanplus -H <ipmi_ip> -U ADMIN -P ADMIN chassis bootdev pxe
```

Set next boot to DISK for next boot

```
ipmitool -I lanplus -H <ipmi_ip> -U ADMIN -P ADMIN chassis bootdev disk
```

Reboot host from IPMI

```
ipmitool -I lanplus -H <ipmi_ip> -U ADMIN -P ADMIN chassis power cycle
```

## Soft shutdown

```
ipmitool -H <ipmi_ip> -v -I lanplus -UADMIN -P ADMIN chassis power soft
```

## Find Mac on eth0

```
ipmitool -I lanplus -U ADMIN -P ADMIN -H <ipmi_ip> raw 0x30 0x21 | tail -c 18
```

## Find FW version

```
ipmitool -I lanplus -H <ipmi_ip> -U ADMIN -P ADMIN mc info | grep 'Firmware Revision'
```

## Factory reset BMC

```
ipmitool -I lanplus -H <ipmi_ip> -U ADMIN -P ADMIN raw 0x3c 0x40
```

## Disable Auto Control

```
ipmitool raw 0x30 0x45 0x1 0x01
```

## Set Fan Speed to not ear cancer

```
ipmitool raw 0x30 0x70 0x66 0x01 0x00 0x15
```

## Factory reset

```
ipmitool -I lanplus -H 1.1.1.1 -U ADMIN -P ADMIN raw 0x3c 0x40
```

## Restart

```
ipmitool -I lanplus -H 1.1.1.1 -U ADMIN -P ADMIN bmc reset cold
```

## SMCIPMITool

<https://www.supermicro.com/wftp/utility/SMCIPMITool/>

```
./jre/bin/java -jar SMCIPMITool.jar {{ ipmi_ip }} ADMIN ADMIN shell
```

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