IPMI configuration from within the CentOS 6,7 Operating System

Install OpenIPMI and ipmitools

```
yum install ipmitool
lsmod | grep ipmi
```

For kernel 2.6.x:

```
modprobe ipmi_msghandler
modprobe ipmi_devintf
modprobe ipmi_si
```

```
cat /proc/devices, you should see your IPMI device listed and ls -l /dev/ipmi0 should show your device node.
```

IPMI Commands

You should then be able to run some IPMI commands locally (probably need to be root as root owns the device node):

```
root@gw01:~# ipmitool -I open chassis power status
Chassis Power is on
```

```
root@gw01:~# ipmitool -I open chassis status
```

- System Power : on
- Power Overload : false
- Power Interlock : inactive
- Main Power Fault : false
- Power Control Fault : false
- Power Restore Policy : always-off
- Last Power Event :
- Chassis Intrusion : inactive
- Front-Panel Lockout : inactive
- Drive Fault : false
- Cooling/Fan Fault : false
- Sleep Button Disable : allowed
- Diag Button Disable : allowed
- Reset Button Disable : allowed
- Power Button Disable : allowed
- Sleep Button Disabled: true
- Diag Button Disabled : true
- Reset Button Disabled: true
- Power Button Disabled: true

Command dissection:
**ipmitool -I open chassis power status**

-I open - use the local openipmi interface. It seems that when the interface is local, it can be omitted from the command.
chassis - run a command from the chassis set of commands.
power - run a command relating to power.
status - show the status of the chassis power status.

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**Setting Up the BMC**

The Supermicro BMCs send out arp requests gratuitously which can degrade performance, so we will turn them off:

```
ipmitool lan set 1 arp generate off
```

We will also set the BMC's netmask as well as it's default and backup gateways (adjust for your own management subnet):

```
ipmitool lan set 1 netmask 255.255.255.0
ipmitool lan set 1 ipaddr 10.142.234.1
ipmitool lan set 1 defgw ipaddr 10.142.234.1
```

And now set it's SNMP community name so that we can send SNMP traps:

```
ipmitool lan set 1 snmp <community name>
ipmitool lan set 1 snmp its-admin
ipmitool lan set 1 ipsrc static
ipmitool lan set 1 access on
ipmitool lan set 1 arp respond on
ipmitool -I open user list 1
# for each user, ADMIN was user 2 on my system, anonymous was user 1
ipmitool channel setaccess 1 2 link=on ipmi=on callin=on privilege=4
ipmitool -I open user enable 2
ipmitool -I open user disable 1
ipmitool -I open user list 1
ipmitool -I open user test 2 16 <password>
ipmitool -I open user test 2 20 <password>
ipmitool -I open mc selftest
ipmitool -I open mc reset cold
```