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# Supermicro Server Manager (SSM)

Maximizes server uptime and health with minimal efforts from an Enterprise IT administrator

The Supermicro Server Manager utility monitors and manages a wide portfolio across multiple generations of Supermicro servers within a single console as in Figure 1 below.

SSM provides capabilities to monitor the health of server components including memory, hard drives and RAID controllers. It enables the datacenter administrator to monitor and manage power usage across all Supermicro servers allowing users to maximize their CPU payload while mitigating the risk of tripped circuit. Firmware upgrades on Supermicro servers became easier now with a couple of clicks. Administrators can now mount an ISO image on multiple servers and reboot the servers with those images. The tool also provides pre-defined reports and many more features that will make managing Supermicro servers simpler.

## BENEFITS

- Easy to use console reduces deployment time of Supermicro servers to hours
- Upgrade and Configuration commands on multiple machines in parallel exponentially reduces hardware maintenance time
- Single tool installation and single console to harness the advantages of multiple features
- CLI and WebUI provides options to integrate Supermicro server management in existing framework
- Support for open source Nagios Plugins leverages existing work from the community

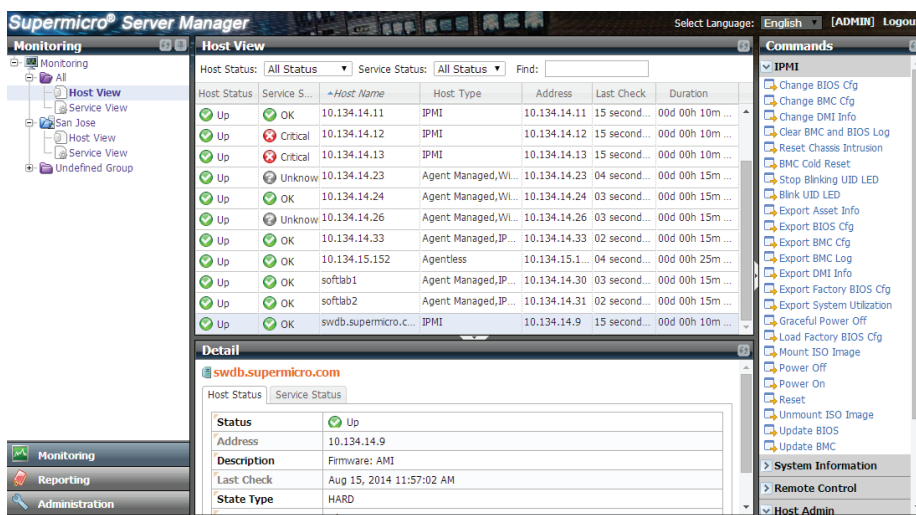


Fig 1: Screenshot of SSM Console

## Key Features

1. Monitor Server hardware and service health. Upgrade Server BIOS and IPMI firmware and configurations
2. Groups together server clusters spread across different networks and manage remotely as in Figure 2
3. Check Asset information (SD5 should be installed)
4. Check System utilization through IPMI (Only available on X10)
5. Mount bootable iso image to install operating systems
6. Flexibility to monitor and manage power on a node or in a rack across your datacenter with configurable policies
7. Remote console to target machines through VNC
8. Log and Report the server information and availability
9. Update SuperDoctor5 on target systems
10. Administer E-mail alerts through SMTP protocol

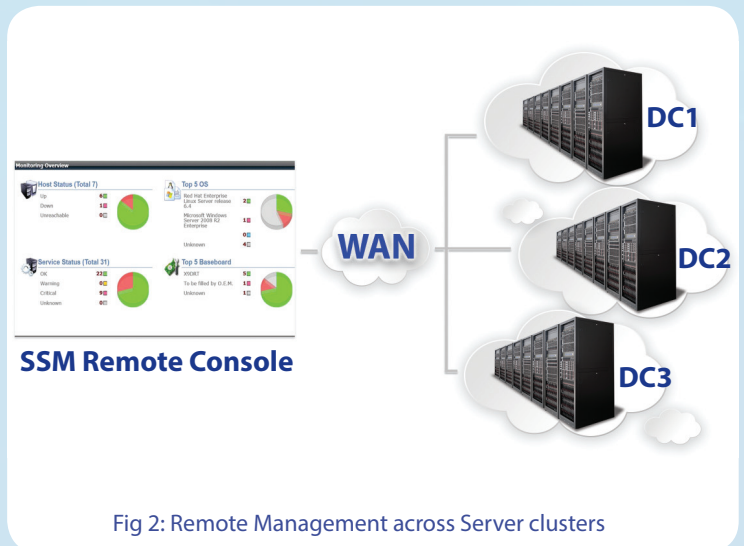


Fig 2: Remote Management across Server clusters



# Supermicro Server Manager (SSM)

## Common Use Cases Scenarios

**Integrate Supermicro Server Management in existing Datacenter infrastructure framework with CLI option**

```

*****
Product      - X8DTU
SSM version - 1.0-Beta-build.127-20110425161702
Copyright(c) 1993-2011 Super Micro Computer, Inc.
*****
Monitored Item      High Limit      Low Limit
-----
CPU1 Temp           81C/177F
CPU2 Temp
System Temp
CPU1 Vcore          1352mV          824mV
CPU2 Vcore          1352mV          824mV
+1.5V               1656mV          1336mV
+5V                  5536mV          4480mV
+5VSB               5536mV          4480mV
+12V                13250mV         10706mV
-12V                -11222mV        -12580mV
+3.3V               3648mV          2928mV
+3.3VSB             3648mV          2928mV
VBAT                 3648mV          2928mV
Fan7                 675RPM
Fan8                 675RPM
Intrusion
PS Status
/dev/sda
/dev/sdb
  
```

**Upgrade BIOS on server clusters in less than 10 minutes\***

\* Depends on remote machines CPU, memory and network speeds

The screenshot shows the 'IPMI - Update BIOS Arguments' dialog box with options like 'Reboot', 'Flash SMBIOS', and 'Preserve ME'. To the right, a table lists server addresses and their BIOS update status:

Address	Last Check	Duration
172.31.1.179	04 minutes a.	01d 09h 40m 08s
172.31.1.178	04 minutes a.	02d 14h 25m 42s
172.31.1.176	04 minutes a.	01d 13h 12m 38s
172.31.40.40	03 minutes a.	00d 01h 23m 37s
172.31.1.171	04 minutes a.	02d 14h 15m 53s
172.31.1.173	04 minutes a.	02d 14h 15m 53s
172.31.1.172	04 minutes a.	01d 13h 04m 31s

**Optimize power consumption in datacenter operations with custom policies**

The screenshot shows the 'Power Policy Management' interface. It includes a table of policies and a line graph showing power consumption (W) over time. The policy 'Max\_200W' is highlighted.

Policy Name	Policy Type	Status	Enabled	Last Update
Max_200W	Static Power Limit	OK	Yes	Aug 14, 2014 10:47:...

**Generate history reports to understand server's health helping administrators take pro-active steps to mitigate business impact**

The screenshot shows the 'History Report' interface with a table of server health events:

Host Name	Service Name	State Time	State	State Type	Attempt	Status Information
172.31.40.40	IPMI Health All	Aug 14, 2014 6:43:59 AM	OK	HARD	1/3	Checked:11, OK:11
172.31.40.40	IPMI Health All	Aug 14, 2014 6:46:03 AM	Critical	SOFT	1/3	Checked:11, OK:10, Critical:1 Critical Items: PS1 Status=Bad;
172.31.40.40	IPMI Health All	Aug 14, 2014 6:48:06 AM	OK	HARD	1/3	Checked:11, OK:11
172.31.40.40	IPMI Health All	Aug 14, 2014 6:48:31 AM	Critical	SOFT	1/3	Checked:11, OK:10, Critical:1 Critical Items: PS1 Status=Bad;
172.31.40.40	IPMI Health All	Aug 14, 2014 6:50:36 AM	Critical	HARD	1/3	Did not reply IPMI request!
172.31.40.40	IPMI Health All	Aug 14, 2014 6:52:51 AM	OK	HARD	1/3	Checked:10, OK:10
172.31.40.40	IPMI Health All	Aug 14, 2014 6:54:51 AM	Warning	SOFT	1/3	No sensor data.
172.31.40.40	IPMI Health All	Aug 14, 2014 6:56:45 AM	Critical	SOFT	2/3	Checked:17, OK:16, Critical:1 Critical Items: Chassis Intru=Bad;
172.31.40.40	IPMI Health All	Aug 14, 2014 6:56:59 AM	Critical	HARD	1/3	Checked:17, OK:16, Critical:1 Critical Items: Chassis Intru=Bad;
172.31.40.40	check_ipmi	Aug 15, 2014 3:06:15 AM	Down	SOFT	1/3	Did not reply IPMI request!

## Hardware and Software Requirements

HARDWARE	4.0 GB free disk space, An Ethernet network interface card, Available 8.0 GB RAM(May need more depending on the number of managed system)
Operating System	Red Hat Enterprise Linux Server 5.x(64-bit), 6.x(64-bit), 7.x(64-bit), SUSE Linux Enterprise 11.x(64-bit), 12.x(64-bit), Windows 2008 Server R2 64-bit, 2012 Server R2 64-bit, 2016 Server 64-bit
Browser	Internet Explorer 11.x or higher, Firefox 3.x or higher
Screen Resolution	1024 x 768



## Order Information

SKU: SFT-DCMS-Single

Please contact your Supermicro Sales representative or your local authorized reseller for more information.

Website: [http://www.supermicro.com/products/info/SMS\\_SSM.cfm](http://www.supermicro.com/products/info/SMS_SSM.cfm)