

SSM: Supermicro Server Manager

Supermicro Server Manager monitors and manages a wide portfolio across multiple generations of Supermicro servers within a single console. 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 circuits. Firmware upgrades on Supermicro servers became easier now with a couple of clicks. Administrators can directly upload a BIOS 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.

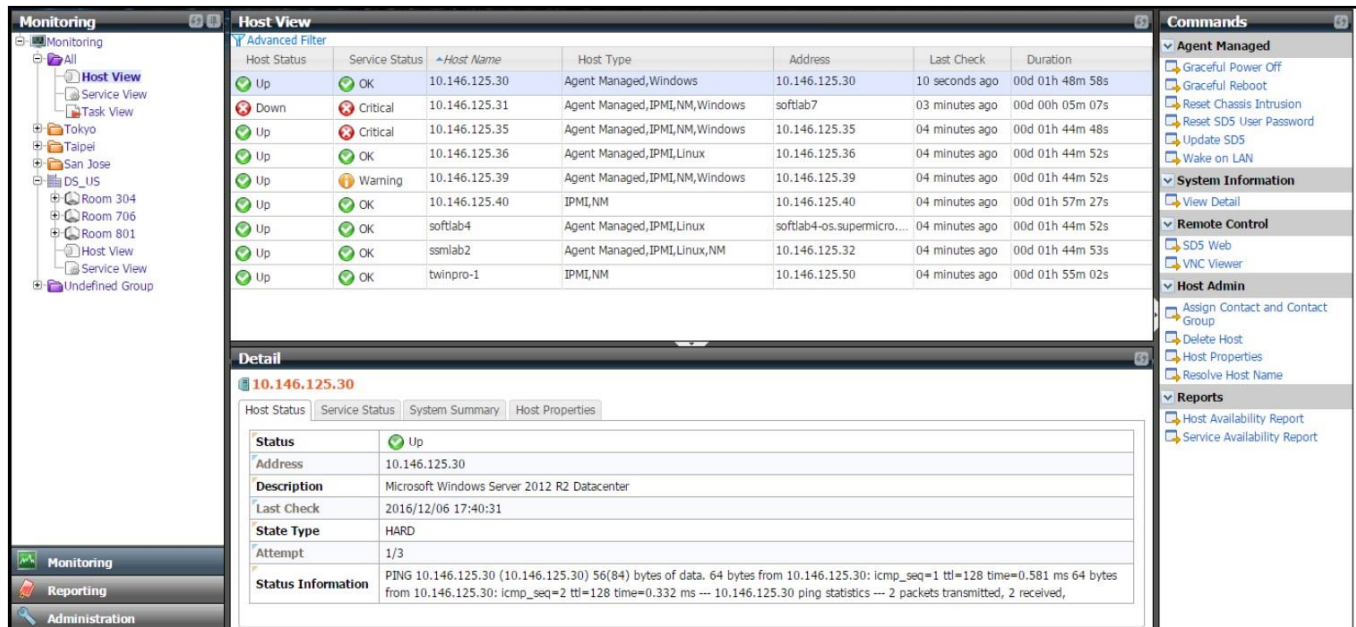


Figure 1 - Screenshot of SSM Console

BENEFITS

- Very scalable with one SSM server supporting up to 10,000 managed nodes (Linux version only)
- Easy to use console cuts deployment time of Supermicro servers in half
- Upgrade and Configuration commands on multiple machines in parallel reduces hardware maintenance time
- Single tool installation and single console bringing together the advantages of multiple features in a single view
- REST APIs and Web UI easily integrates Supermicro server management in existing framework seamlessly
- Automated report and ticket generation from Supermicro Global Service Team for instantaneous support to prevent downtime. (Supermicro Service Agreement required)

Common Use Cases Scenarios

Integrates Supermicro Server Manager in existing Datacenter infrastructure framework with REST APIs

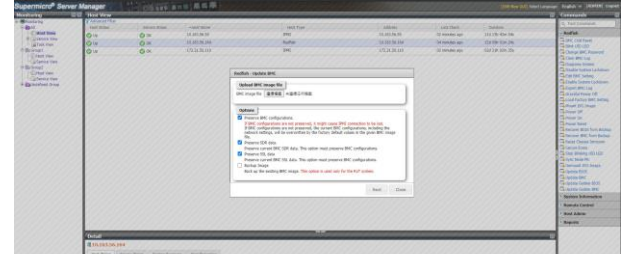
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  "cmm": "S10",
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}

```

Upgrades Firmware on server clusters in less than 10 minutes

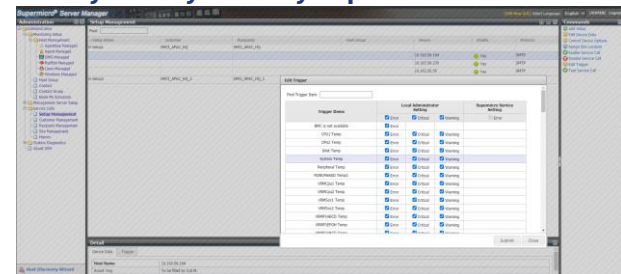
Depends on remote machines CPU, memory and network speeds



Optimizes power consumption in datacenter operations with custom policies



Monitors pre-defined critical hardware failures of fully built systems by Supermicro



SSM Feature List

- Monitors Server hardware and service health. Upgrade Server BIOS, BMC and CMM firmware and configurations
- Groups together server clusters spread across different networks and manage remotely
- Exports asset information on system components
- Exports system utilization (TAS Agent required & Only available on X10 and later generations)
- Mounts bootable iso image to install operating systems
- Pushes OS Deployments without human intervention (RHEL, CentOS, SLES, Ubuntu, VMware ESXi)
- Manages power policies of individual nodes.
- Remotely Powers on/off/reset the target systems.
- Initiates remote console to target machines through VNC
- Alerts through E-mails and SNMP Traps
- Logs and reports managed nodes availability
- Diagnoses managed systems and get progress as well as the result on SSM Web.
- Monitors pre-defined critical hardware failures of fully built systems by Supermicro

SSM Environment Requirements

Hardware:

- X86 Server, 4 CPU cores, 40 GB free disk space, 16 GB available RAM, Ethernet network interface

Operating System:

- Red Hat Enterprise Linux Server 6.x/7.x/8.x 64-bit,
- SUSE Linux Enterprise 12.x/15.x 64-bit,
- Windows Server 2012 R2 64-bit, Windows Server 2016 64-bit, Windows Server 2019 64-bit

Browsers:

- Internet Explorer 11.x or higher
- Firefox 52.x or higher
- Additional browsers tested

- Screen Resolution: 1024 x 768 or higher resolution