



Configuring Communication Services

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Configuring HTTP

Before You Begin

You must log in as a user with admin privileges to configure HTTP.

Procedure

	Command or Action	Purpose
Step 1	Server# scope http	Enters the HTTP command mode.
Step 2	Server /http # set enabled {yes no}	Enables or disables HTTP and HTTPS service on the CIMC.
Step 3	Server /http # set http-port <i>number</i>	Sets the port to use for HTTP communication. The default is 80.
Step 4	Server /http # set https-port <i>number</i>	Sets the port to use for HTTPS communication. The default is 443.
Step 5	Server /http # set timeout <i>seconds</i>	Sets the number of seconds to wait between HTTP requests before the CIMC times out and terminates the session. Enter an integer between 60 and 10,800. The default is 1,800 seconds.

	Command or Action	Purpose
Step 6	Server /http # commit	Commits the transaction to the system configuration.

This example configures HTTP for the CIMC:

```
Server# scope http
Server /http # set enabled yes
Server /http *# set http-port 80
Server /http *# set https-port 443
Server /http *# set timeout 1800
Server /http *# commit
Server /http # show
HTTP Port  HTTPS Port  Timeout  Active Sessions  Enabled
-----
80          443          1800     0                 yes
Server /http #
```

Configuring SSH

Before You Begin

You must log in as a user with admin privileges to configure SSH.

Procedure

	Command or Action	Purpose
Step 1	Server# scope ssh	Enters the SSH command mode.
Step 2	Server /ssh # set enabled {yes no}	Enables or disables SSH on the CIMC.
Step 3	Server /ssh # set ssh-port <i>number</i>	Sets the port to use for secure shell access. The default is 22.
Step 4	Server /ssh # set timeout <i>seconds</i>	Sets the number of seconds to wait before the system considers an SSH request to have timed out. Enter an integer between 60 and 10,800. The default is 300 seconds.
Step 5	Server /ssh # commit	Commits the transaction to the system configuration.
Step 6	Server /ssh # show [detail]	(Optional) Displays the SSH configuration.

This example configures SSH for the CIMC:

```
Server# scope ssh
Server /ssh # set enabled yes
Server /ssh *# set ssh-port 22
Server /ssh *# set timeout 600
Server /ssh *# commit
Server /ssh # show
SSH Port  Timeout  Active Sessions  Enabled
-----
22        600     1                 yes
```

Server /ssh #

Configuring IPMI

IPMI Over LAN

IPMI defines the protocols for interfacing with a service processor embedded in a server platform. This service processor is called a Baseboard Management Controller (BMC) and resides on the server motherboard. The BMC links to a main processor and other on-board elements using a simple serial bus.

During normal operations, IPMI lets a server operating system obtain information about system health and control system hardware. For example, IPMI enables the monitoring of sensors, such as temperature, fan speeds and voltages, for proactive problem detection. If server temperature rises above specified levels, the server operating system can direct the BMC to increase fan speed or reduce processor speed to address the problem.

Configuring IPMI over LAN

Configure IPMI over LAN when you want to manage the CIMC with IPMI messages.

Before You Begin

You must log in with admin privileges to perform this task.

Procedure

	Command or Action	Purpose
Step 1	Server# scope ipmi	Enters the IPMI command mode.
Step 2	Server /ipmi # set enabled {yes no}	Enables or disables IPMI access on this server.
Step 3	Server /ipmi # set privilege-level {readonly user admin}	Specifies the highest privilege level that can be assigned to an IPMI session on this server. This can be: <ul style="list-style-type: none"> • readonly — IPMI users can view information but cannot make any changes. If you select this option, IPMI users with the "Administrator", "Operator", or "User" user roles can only create read-only IPMI sessions, regardless of their other IPMI privileges. • user — IPMI users can perform some functions but cannot perform administrative tasks. If you select this option, IPMI users with the "Administrator" or "Operator" user role can create user and read-only sessions on this server. • admin — IPMI users can perform all available actions. If you select this option, IPMI users with the "Administrator" user role can create admin, user, and read-only sessions on this server.

	Command or Action	Purpose
Step 4	Server /ipmi # set encryption-key <i>key</i>	Sets the IPMI encryption key to use for IPMI communications. The key value must be 40 hexadecimal numbers.
Step 5	Server /ipmi # commit	Commits the transaction to the system configuration.

This example configures IPMI over LAN for the CIMC:

```
Server# scope ipmi
Server /ipmi # set enabled yes
Server /ipmi *# set privilege-level admin
Server /ipmi *# set encryption-key abcdef01234567890abcdef01234567890abcdef
Server /ipmi *# commit
Server /ipmi # show
Enabled Encryption Key                               Privilege Level Limit
-----
yes          abcdef01234567890abcdef01234567890abcdef admin
Server /ipmi #
```

Configuring SNMP Properties

Before You Begin

You must log in as a user with admin privileges to perform this task.

Procedure

	Command or Action	Purpose
Step 1	Server# scope snmp	Enters SNMP command mode.
Step 2	Server /snmp # set enabled {yes no}	Enables or disables SNMP. Note SNMP must be enabled and saved before additional SNMP configuration commands are accepted.
Step 3	Server /snmp # commit	Commits the transaction to the system configuration.
Step 4	Server /snmp # set community-str <i>community</i>	Specifies the default SNMP v1 or v2c community name that CIMC includes on any trap messages it sends to the SNMP host. The name can be up to 18 characters.
Step 5	Server /snmp # set sys-contact <i>contact</i>	Specifies the system contact person responsible for the SNMP implementation. The contact information can be up to 254 characters, such as an email address or a name and telephone number. To enter a value that contains spaces, you must enclose the entry with quotation marks.
Step 6	Server /snmp # set sys-location <i>location</i>	Specifies the location of the host on which the SNMP agent (server) runs. The location information can be up to 254 characters. To enter a value that contains spaces, you must enclose the entry with quotation marks.

	Command or Action	Purpose
Step 7	Server /snmp # commit	Commits the transaction to the system configuration.

This example configures the SNMP properties and commits the transaction:

```

Server# scope snmp
Server /snmp # set enabled yes
Server /snmp *# commit
Server /snmp # set community-str cimpublic
Server /snmp *# set sys-contact "User Name <username@example.com> +1-408-555-1212"
Server /snmp *# set sys-location "San Jose, California"
Server /snmp *# commit
Server /snmp # show detail
SNMP Settings:
  SNMP Port: 161
  System Contact: User Name <username@example.com> +1-408-555-1212
  System Location: San Jose, California
  SNMP Community: cimpublic
  SNMP Trap community: 0
  Enabled: yes
  SNMP Trap Version: 1
  SNMP Inform Type: inform

Server /snmp #

```

What to Do Next

Configure SNMP trap settings as described in [Configuring SNMP Trap Settings](#).

