



System Log Commands

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system set-log

To set the log level and log type of messages, use the **system set-log** command in privileged EXEC mode.

```
system set-log level {debug | info | warning | error | critical} logtype {configuration | operational | all}
```

Syntax Description	Parameter	Description
	level	Specifies the log level.
	debug	Logs all messages.
	info	Logs all messages that have info and higher severity level.
	warning	Logs all messages that have warning and higher severity level.
	error	Logs all messages that have error and higher severity level.
	critical	Logs all messages that have critical severity level.
	logtype	Specifies the log type.
	configuration	Configuration log messages are recorded.
	operational	Operational log messages are recorded.
	all	All types of log messages are recorded.

Command Default For the configuration log, **info** is the default level. For the operational log, **warning** is the default level.

Command Modes Privileged EXEC (#)

Command History	Release	Modification
	3.5.1	This command was introduced.

Usage Guidelines After a system reboot, the modified logging configuration is reset to the default level, that is, **info** for the configuration log and **warning** for the operational log.

Example

The following example shows how to configure a log level:

```
nfvis# system set-log level error logtype all
```

show system logging-level

To view the log level and log type settings, use the **show system logging-level** command in privileged EXEC mode.

```
show system logging-level [{configuration | operational}]
```

Syntax Description	configuration (Optional) Log level for the configuration log type is displayed.
	operational (Optional) Log level for the operational log type is displayed.
Command Default	The log level for all log types is displayed.
Command Modes	Privileged EXEC (#)
Command History	Release Modification
	3.5.1 This command was introduced.

Example

The following is a sample output of the **show system logging-level** command with the default log level settings:

```
nfvis# show system logging-level
system logging-level configuration info
system logging-level operational warning
```

show log

To display a list of available log files or content of a specific log file, use the **show log** command in privileged EXEC mode.

show log *log-name*

Syntax Description	<i>log-name</i> Specifies the log file name. The log file name should be same as shown in the output of the show log command.								
Command Default	None								
Command Modes	Privileged EXEC mode								
Command History	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>3.7.1</td> <td>The <i>log-name</i> parameter is an optional parameter. When this parameter is not specified, a listing of all available log files is displayed. In addition, you can provide a partial or complete log file name (as shown in the show log output) in the <i>log-name</i> parameter.</td> </tr> <tr> <td>3.6.1</td> <td>The <i>log-name</i> is a required parameter.</td> </tr> <tr> <td>3.5.1</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	3.7.1	The <i>log-name</i> parameter is an optional parameter. When this parameter is not specified, a listing of all available log files is displayed. In addition, you can provide a partial or complete log file name (as shown in the show log output) in the <i>log-name</i> parameter.	3.6.1	The <i>log-name</i> is a required parameter.	3.5.1	This command was introduced.
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3.6.1	The <i>log-name</i> is a required parameter.								
3.5.1	This command was introduced.								

Usage Guidelines In Release 3.6.1 and earlier releases, the exact directory path (`/var/log`) and exact filename is required to run this command.

Starting with Release 3.7.1, this command is modified for the following:

- Display a list of all available log files (using **show log**).
- Display a list of log files that match the partial filename provided in the *log-name* parameter.
- Display the content of the specified log file if the filename matches exactly as shown in **show log** output.

To filter the content of a log file, you can use the **show log log-name | ?** command.

The following example displays the available log files.

```
nfvis# show log
File Name                Last Modified           Size
backups.log              Mon Nov 13 10:30:01 2017 10758
boot.log                 Mon Nov 13 10:51:25 2017 13893
btmtp                    Mon Nov 13 10:26:21 2017 768
confd_audit.log          Mon Nov 13 11:05:35 2017 10423
confd_confid.log         Mon Nov 13 10:49:54 2017 20977
confd_devel.log          Mon Nov 13 10:49:54 2017 18969
confd.log                 Mon Nov 13 10:48:58 2017 582
confd_netconf.log        Mon Nov 13 10:51:25 2017 1613
cron                      Mon Nov 13 11:01:01 2017 24762
...
```

The following examples display all available log files matching a partial name.

```

nfvis# show log nfvis
File Name                Last Modified                Size
nfvis_config.log         Mon Nov 13 10:51:25 2017    311395
nfvis_setup.log          Mon Nov 13 10:49:59 2017    3170
nfvis_syslog.log         Mon Nov 13 10:51:25 2017    1483

nfvis# show log esc
File Name                Last Modified                Size
esc/debug_yangesc.log    Mon Nov 13 10:49:53 2017    276748
esc/error_escmanager.log Mon Nov 13 10:50:06 2017    11825
esc/esc_confid.log       Mon Nov 13 10:28:42 2017    588
esc/escmanager.log       Mon Nov 13 10:50:19 2017    44597
esc/esc_postinit.log     Mon Nov 13 10:50:25 2017    74940
esc/event_escmanager.log Mon Nov 13 10:50:19 2017    4791
esc/forever.log          Mon Nov 13 10:49:07 2017    6892
esc/yangesc.log          Mon Nov 13 10:49:53 2017    23982

```

The following examples show the content of a particular log file.

```

nfvis# show log nfvis_syslog.log
Nov 13 09:50:35 nfvisto6 %SYS-6-NFVIS_UP: System started by Power Switch. Up 1 minute, 42
seconds
Nov 13 09:51:35 nfvisto6 %SYS-6-UPGRADE_APPLY: Upgrade Process: In Progress
Nov 13 09:51:36 nfvisto6 %SYS-6-UPGRADE_APPLY: Upgrade Process: Restoring VMs

```

Example 2

The following example filters the content of a log file.

```

nfvis# show log esc/escmanager.log | ?
Possible completions:
  append  Append output text to a file
  begin   Begin with the line that matches
  count   Count the number of lines in the output
  exclude Exclude lines that match
  include Include lines that match
  linum   Enumerate lines in the output
  more    Paginate output
  nomore  Suppress pagination
  save    Save output text to a file
  until   End with the line that matches

nfvis# show log esc/escmanager.log | include ERROR | more
02-Mar-2017 01:46:27,613 INFO [LogContextService.java:outputDecoratedLog():185] [tid=]
[cl=SM ]
[tags=threadName:VM_STATE_MACHINE-SystemAdminTena_demo7_0_8adb7f6a-ca5e-454d-9c14-fd9d5d21054f,stateMachineType:VM_STATE_MACHINE,
stateMachineContextId:
SystemAdminTena_demo7_0_8adb7f6a-ca5e-454d-9c14-fd9d5d21054f] VM_STATE_MACHINE-
SystemAdminTena_demo7_0_8adb7f6a-ca5e-454d-9c14-fd9d5d21054f Transition: VM_INERT_STATE
---- VM_ACTION_FAILED_EVENT ---- >
  VM_ERROR_STATE
02-Mar-2017 01:46:27,613 INFO [ManagedObject.java:update():66] [tid=] [cl=DB ] [tags=] DB
TRANSACTION(477010616) -
UPDATE VMStateMachineDao with values
stateMachineContextId:SystemAdminTena_demo7_0_8adb7f6a-ca5e-454d-9c14-fd9d5d21054f;

```

```
stateMachineType:VM_STATE_MACHINE;
serviceStateMachineContextId:1a037a82-b248-4117-9156-aa26bc8e2ce1;
deploymentDetailsId:15fa65be-0775-47c3-aa46-d6eb1e428a93; previousState:VM_INERT_STATE;
currentState:
VM_ERROR_STATE; monitorSet:true; serviceDefinition:0; vmInstance:demo7; vmIndex:0;
classMetadata:SingleTableEntityPersister(com.cisco.esc.db.VMStateMachineDao);
02-Mar-2017 01:46:27,669 ERROR [StateMachineEngine.java:buildLogContext():75] [tid=] [cl=SM
] [tags=]
Unable to set log context, null values found for RequestDetails
02-Mar-2017 01:46:27,673 INFO [LogContextService.java:outputDecoratedLog():185] [tid=]
[cl=SM ]

[tags=threadName:RECOVERY_WORKFLOW_STATE_MACHINE-93cfacf5-9ee8-4e0e-9438-722944b4da2d,stateMachineType:
RECOVERY_WORKFLOW_STATE_MACHINE,stateMachineContextId:
93cfacf5-9ee8-4e0e-9438-722944b4da2d]
RECOVERY_WORKFLOW_STATE_MACHINE-93cfacf5-9ee8-4e0e-9438-722--More--
...
```