



Graceful Insertion and Removal

- [maintenance-template](#), on page 2
- [router routing protocol shutdown I2](#), on page 3
- [start maintenance](#), on page 4
- [stop maintenance](#), on page 5
- [system mode maintenance](#), on page 6

maintenance-template

To create a maintenance template, use the **maintenance-template** *template_name* command in the global configuration mode. To delete the template, use the **no** form of the command.

maintenance-template *template_name*

no maintenance-template *template_name*

Syntax Description	maintenance-template	Creates a template for GIR with a specific name.
	<i>template_name</i>	Name of the maintenance template.
Command Default	Disabled.	
Command Modes	Global configuration (config)	
Command History	Release	Modification
	Cisco IOS XE Everest 16.6.1	This command was introduced.

Example:

The following example shows how to configure a maintenance template with the name g1:

```
Device(config)# maintenance template g1
```

router routing protocol shutdown l2

To create instances that should be isolated within a maintenance template, use the **router** *routing_protocol instance_id* | **shutdown l2** command in the maintenance template configuration mode. To delete the instance, use the **no** form of the command.

```
{ router routing_protocol instance_id | shutdown l2 }
no{ router routing_protocol instance_id | shutdown l2 }
```

Syntax Description	router	Configures instance associated with routing protocol.
	<i>routing_protocol</i>	Routing protocol defined for the template.
	<i>instance_id</i>	Instance ID associated with the routing protocol.
	shutdown l2	Configures instance to shut down layer 2 interfaces.
Command Default	Disabled.	
Command Modes	Maintenance template configuration (config-maintenance-temp)	
Command History	Release	Modification
	Cisco IOS XE Everest 16.6.1	This command was introduced.

Example:

The following example shows how to create an instance for ISIS with an instance ID of one under maintenance template temp1:

```
Device(config)# maintenance template g1
Device(config-maintenance-temp1)# router isis 1
```

The following example shows how to create an instance for shutting down layer 2 interfaces under maintenance template g1:

```
Device(config)# maintenance template g1
Device(config-maintenance-temp1)# shutdown l2
```

start maintenance

To put the system into maintenance mode, use the **start maintenance** command in the privileged EXEC mode.

start maintenance

Syntax Description	start maintenance	Puts the system into maintenance mode.
Command Default	Disabled.	
Command Modes	Privileged EXEC	
Command History	Release	Modification
	Cisco IOS XE Everest 16.6.1	This command was introduced.

Example:

The following example shows how to start maintenance mode:

```
Device# start maintenance
```

stop maintenance

To put the system out of maintenance mode, use the **stop maintenance** command in the privileged EXEC mode.

stop maintenance

Command Default

Disabled.

Command Modes

Privileged EXEC

Command History

Release	Modification
Cisco IOS XE Everest 16.6.1	This command was introduced.

Example:

The following example shows how to stop maintenance mode:

```
Device# stop maintenance
```

system mode maintenance

To enter the system mode maintenance configuration mode, use the **system mode maintenance** command in the global configuration mode.

system mode maintenance

Syntax Description	system mode maintenance	Enters the maintenance configuration mode.
Command Default	Disabled.	
Command Modes	Global configuration (config)	
Command History	Release	Modification
	Cisco IOS XE Everest 16.6.1	This command was introduced.

Example:

The following example shows how to enter the maintenance configuration mode:

```
Device(config)# system mode maintenance
Device(config-maintenance)#
```