

DELL ENTERPRISE SONIC

CONFIG REPLACE PRE-LAUACH TESTING

Using DES 4.1

CONFIGREPLACE EXEC MODE – TEST 1

FAILING DUE UNSUPPORTED OSPF FEATURE

```
GDSZZP2#
GDSZZP2# copy running-configuration config://sample_test_config
GDSZZP2# configure
GDSZZP2(config)#
GDSZZP2(config)# no router ospf
GDSZZP2(config)# exit
GDSZZP2#
GDSZZP2# copy config:/
  config:      Copy from configuration directory (config://filename)
  coredump:    Copy from coredump directory (coredump://filename)
  event-profile: Copy from event-profile directory (event-profile://filename)
  ftp:         Copy from remote FTP server (ftp://userid:passwd@hostip/filepath)
  home:        Copy from home directory (home://filename)
  http:        Copy from remote HTTP server (http://hostip/filepath)
  log:         Copy from log directory (log://filename)
  scp:         Copy from remote SCP server (scp://userid:passwd@hostip/filepath)
  tech-support: Copy from tech-support directory (tech-support://filename)
  usb:         Copy from usb media directory (usb://filename)

GDSZZP2# copy config://sample_test_config running-configuration replace
configuration(s) will get replaced in current config ? [y/N]:y
%Error: Unsupported Object OSPFV2_ROUTER_AREA
```

ConfigReplace EXEC mode – Test 2

Testing copy w/ replace Option & showing newly applied configs

```
GDSZZP2# copy config://test_config_change_bgpv4_peer running-configuration replace
configuration(s) will get replaced in current config ? [y/N]:y
GDSZZP2#
```

```
router bgp 1001
 log-neighbor-changes
 timers 60 180
 !
 address-family ipv4 unicast
  redistribute connected
  maximum-paths 1
  maximum-paths ibgp 1
 !
 address-family ipv6 unicast
  redistribute connected
  maximum-paths 1
  maximum-paths ibgp 1
 !
 neighbor 12:12:1::1
  remote-as 1002
 !
 address-family ipv6 unicast
  activate
 !
 neighbor 14.1.1.1
  remote-as 1002
 !
```

CONFIGREPLACE EXEC MODE – TEST 3

SONIC PREVENTS YOU FROM USING EXEC MODE IF THERE IS A CONFIG SESSION ACTIVE

```
GDSZZP2#  
GDSZZP2#  
GDSZZP2# configure  
GDSZZP2(config)#  
GDSZZP2(config)# router bgp 1001  
%Error: Config Session is in progress. Please commit or abort the confi  
GDSZZP2(config)# exit
```

```
GDSZZP2(config-s)# abort  
WARNING: this operation will discard all changes done in this configuration session  
Do you want to continue? [y/N] y  
% Aborted session  
GDSZZP2#  
GDSZZP2#
```

CONFIGREPLACE SESSION MODE – TEST 1

TESTING REPLACE AND COMMIT INSIDE SESSION MODE & SHOWING NEWLY APPLIED CONFIGS

```
GDSZZP2(config-s)#  
GDSZZP2(config-s)#  
GDSZZP2(config-s)# replace config://test_config_add_bgpv6_peer  
configuration(s) will get replaced in current config ? [y/N]:y  
GDSZZP2(config-s)# co  
commit      copp-action counters  
GDSZZP2(config-s)# commit  
% Committed session, checkpoint id 1700122466-3  
GDSZZP2#
```

```
maximum-paths 1  
maximum-paths ibgp 1  
!  
address-family ipv6 unicast  
redistribute connected  
maximum-paths 1  
maximum-paths ibgp 1  
!  
neighbor 12.1.1.1  
remote-as 1002  
!  
address-family ipv4 unicast  
activate  
!  
neighbor 12:12:1::1  
remote-as 1002  
!
```

CONFIGREPLACE USING BUILT-IN GNOI CLIENT



CONFIGREPLACE USING GNOI CLIENT – TEST 1

TESTING COPY W/REPLACE USING GNOI C – FAILING DUE TO WRONG SOURCE SYNTAX

```
admin@GDSZZP2:~$ docker exec -it telemetry /usr/sbin/gnoi_client -module OpenconfigFileMgmtPrivate -rpc Copy -jsonin '{"openconfig-file-mgmt-private:input":{"source":"/etc/sonic/test_config_change_bgpv4_peer","destination":"running-configuration","copy-config-option":"REPLACE"}}' -insecure -username admin -password YourPaSsWoRd
"destination":"running-configuration","copy-config-option":"REPLACE"}}
input: <
source: "/etc/sonic/test_config_change_bgpv4"
destination: "running-configuration"
copy_config_option: REPLACEREPLACESonic OpenconfigFileMgmtPrivateCopy Client
{"openconfig-file-mgmt-private:input":{"source":"/etc/sonic/test_config_change_bgpv4","destination":"running-configuration","copy-config-option":"REPLACE"}}
input: <
source: "/etc/sonic/test_config_change_bgpv4"
destination: "running-configuration"
copy_config_option: REPLACEREPLACESonic OpenconfigFileMgmtPrivateCopy Client
{"openconfig-file-mgmt-private:input":{"source":"/etc/sonic/test_config_change_bgpv4_peer","destination":"running-configuration","copy-config-option":"REPLACE"}}
}
input: <
  source: "/etc/sonic/test_config_change_bgpv4_peer"
  destination: "running-configuration"
  copy_config_option: REPLACEREPLACE
>

{
  "openconfig-file-mgmt-private:output": {
    "status": 1,
    "status-detail": "Invalid command."
  }
}
```

ConfigReplace USING GNOI Client – Test 1 (cont.)

Syntax error in Red

```
admin@GDSZP2:~$ docker exec -it telemetry /usr/sbin/gnoi_client -module Openconfig FileMgmt Private -rpc Copy -jsonin  
{"openconfig-file-mgmt-private:input":{"source":"/etc/sonic/test_config_change_bgpv4_peer","destination":"running-  
configuration"},"copy-config-option":"REPLACE"}} -insecure -username admin -password YourPa$$WoRd "destination":"running-  
configuration","copy-config-option":"REPLACE"}
```

```
input: <
```

```
source: "/etc/sonic/test_config_change_bgpv4"
```

```
destination: "running-configuration"
```

```
copy_config_option: REPLACEREPLACESonic OpenconfigFileMgmtPrivateCopy Client
```

```
{"openconfig-file-mgmt-private:input":{"source":"/etc/sonic/test_config_change_bgpv4","destination":"running-  
configuration"},"copy-config-option":"REPLACE"}
```

```
input: <
```

```
source: "/etc/sonic/test_config_change_bgpv4"
```

```
destination: "running-configuration"
```

```
copy_config_option: REPLACEREPLACESonic OpenconfigFileMgmtPrivateCopy Client
```

```
{"openconfig-file-mgmt-private:input":{"source":"/etc/sonic/test_config_change_bgpv4_peer","destination":"running-  
configuration"},"copy-config-option":"REPLACE"}  
}
```

```
input: <
```

```
source: "/etc/sonic/test_config_change_bgpv4_peer"
```

```
destination: "running-configuration"
```

```
copy_config_option: REPLACEREPLACE
```

```
>
```

```
{  
  "openconfig-file-mgmt-private:output": {  
    "status": 1,  
    "status-detail": "Invalid command."  
  }  
}
```


ConfigReplace USING GNOI Client – Test 1

Testing Copy w/Replace Using GNOI C – correct syntax

```
root@GDSZZP2:~#  
root@GDSZZP2:~# docker exec -it telemetry /usr/sbin/gnoi_client -module Openconf  
igFileMgmtPrivate -rpc Copy -jsonin '{"openconfig-file-mgmt-private:input":{"sou  
rce":"home://test_config_change_bgpv4_peer","destination":"running-configuration  
","copy-config-option":"REPLACE"}}' -insecure -username admin -password YourPaSs  
WoRd  
(Sonic OpenconfigFileMgmtPrivateCopy Client  
{ "openconfig-file-mgmt-private:input": { "source": "home://test_config_change_bgpv4  
_peer", "destination": "running-configuration", "copy-config-option": "REPLACE" } }  
input: <  
source: "home://test_config_change_bgpv4_peer"  
destination: "running-configuration"  
copy_config_option: REPLACEREPLACE  
>  
{  
  "openconfig-file-mgmt-private:output": {  
    "status": 0,  
    "status-detail": "SUCCESS."  
  }  
}
```

THANK YOU

A series of several thin, parallel white lines that originate from the bottom right corner and extend diagonally towards the top right corner of the slide.

BACKUP SLIDES

A series of several thin, parallel white lines that originate from the bottom right corner and extend diagonally towards the top right corner of the slide.

GDSZZP2# exit

admin@GDSZZP2:/sonic\$ sudo find / -name "test_config_change_bgpv4_peer"

/etc/sonic/test_config_change_bgpv4_peer

/host/image-4.1.1-Enterprise_Premium/rw/etc/sonic/test_config_change_bgpv4_peer

find: '/proc/26038': No such file or directory

admin@GDSZZP2:/sonic\$

sonic – admin@192.168.1.114 – WinSCP

Local Mark Files Commands Tabs Options Remote Help

Synchronize Queue Transfer Settings Default

admin@192.168.1.114 x New Tab

My documents Upload Edit Properties New

C:\Users\HMAAM\Documents\

Name	Size	Type	Changed
..		Parent directory	8/9/2023 1:04:37 PM
Dell		File folder	10/11/2021 12:29:04 AM
Fax		File folder	10/30/2021 1:58:30 PM
GitHub		File folder	6/2/2023 10:14:40 PM
My Albums		File folder	10/14/2021 9:13:47 AM
Palm OS Desktop		File folder	10/14/2021 9:16:27 AM
Scanned Documents		File folder	9/4/2022 10:11:32 AM
Zoom		File folder	8/9/2023 1:04:37 PM
fortigate com 3.moba	1 KB	MOBA File	1/11/2022 1:22:35 AM

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sonic

Find Files

Download Edit Properties New

/etc/sonic/

Name	Size	Changed	Rights
cert		10/1/2023 11:24:47 PM	rwxr-xr-x
frr		11/14/2023 1:39:22 AM	rwxr-x--
hamd		7/24/2023 1:40:34 PM	rwxr-xr-x
hw_resources		7/24/2023 1:43:15 PM	rwxr-xr-x
licenses		7/11/2022 8:00:00 PM	rwxr-xr-x
old_config		10/1/2023 8:36:40 AM	rwxr-xr-x
asic_config_checksum	1 KB	7/24/2023 1:39:35 PM	rw-r--r--
ccd_mgmt_sock	0 KB	11/14/2023 1:38:45 AM	rwxr-xr-x
config_db.json	35 KB	11/15/2023 8:28:03 PM	rw-----
config_db_version_registry.json	1 KB	9/17/2020 1:48:49 AM	rw-r--r--
constants.yml	2 KB	7/24/2023 1:40:44 PM	rw-r--r--
copp_config.json	16 KB	10/1/2023 8:42:51 AM	rw-r--r--
copp_feat_trap.json	1 KB	7/24/2023 1:40:43 PM	rw-r--r--
core_analyzer.rc.json	1 KB	7/24/2023 1:40:40 PM	rw-----
docker_limits.json	3 KB	7/24/2023 1:40:40 PM	rw-r--r--
generated_services.conf	1 KB	7/24/2023 1:43:13 PM	rw-r--r--
init_cfg.json	7 KB	7/24/2023 1:40:44 PM	rw-r--r--
min_config_db.json	29 KB	10/1/2023 8:36:39 AM	rw-r--r--
new_config_db_version_registry.json	260 KB	10/1/2023 8:36:40 AM	rw-r--r--

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```
root@GDSZZP2:~#
root@GDSZZP2:~# docker exec -it telemetry /usr/sbin/gnoi_client -module Openconf
igFileMgmtPrivate -rpc Copy -jsonin '{"openconfig-file-mgmt-private:input":{"sou
rce":"home://test_config_change_bgpv4_peer","destination":"running-configuration
","copy-config-option":"REPLACE"}}' -insecure -username admin -password YourPaSs
WoRd
Sonic OpenconfigFileMgmtPrivateCopy Client
{"openconfig-file-mgmt-private:input":{"source":"home://test_config_change_bgpv4
_peer","destination":"running-configuration","copy-config-option":"REPLACE"}}
input: <
  source: "home://test_config_change_bgpv4_peer"
  destination: "running-configuration"
  copy_config_option: REPLACEREPLACE
>
{
  "openconfig-file-mgmt-private:output": {
    "status": 0,
    "status-detail": "SUCCESS."
  }
}
```