

Тестирование возможности подключения FOS9 FOS8 FOS7 в одной фабрике

Общие сведения

Ниже приведены основные характеристики используемых коммутаторов различных поколений. Используемые модели:

- Brocade 300
- Brocade 6505 (под маркой HPE)
- Brocade G720 (под маркой DELL Connectrix)

Brocade 300

```
SW300:admin> switchshow
switchName:      SW300
switchType:      71.2
switchState:     Online
switchMode:      Native
switchRole:      Principal
switchDomain:    1
switchId:        fffc01
switchWwn:       10:00:00:27:f8:0c:7f:0a
zoning:          ON (USA_cfg)
switchBeacon:    OFF
HIF Mode:        OFF
LS Attribute:    [Inherited FID: 128]
```

Index	Port	Address	Media	Speed	State	Proto	
0	0	010000	id	N8	Online	FC	F-Port
50:01:43:80:28:cd:2b:20							
1	1	010100	id	N8	No_Light	FC	
2	2	010200	id	N8	Online	FC	E-Port
10:00:d8:1f:cc:58:7e:d0 "DS_7720B" (downstream)							
3	3	010300	id	N8	No_Light	FC	
4	4	010400	id	N8	No_Light	FC	
5	5	010500	id	N8	No_Light	FC	
6	6	010600	id	N8	No_Light	FC	
7	7	010700	id	N8	No_Light	FC	
8	8	010800	id	N8	No_Light	FC	(No POD License) Disabled
9	9	010900	id	N8	No_Light	FC	(No POD License) Disabled
10	10	010a00	id	N8	No_Light	FC	(No POD License) Disabled
11	11	010b00	id	N8	No_Light	FC	(No POD License) Disabled
12	12	010c00	id	N8	No_Light	FC	(No POD License) Disabled

13	13	010d00	id	N8	No_Light	FC	(No POD License)	Disabled
14	14	010e00	id	N8	No_Light	FC	(No POD License)	Disabled
15	15	010f00	id	N8	No_Light	FC	(No POD License)	Disabled
16	16	011000	id	N8	No_Light	FC	(No POD License)	Disabled
17	17	011100	id	N8	No_Light	FC	(No POD License)	Disabled
18	18	011200	--	N8	No_Module	FC	(No POD License)	Disabled
19	19	011300	--	N8	No_Module	FC	(No POD License)	Disabled
20	20	011400	id	N8	No_Light	FC	(No POD License)	Disabled
21	21	011500	--	N8	No_Module	FC	(No POD License)	Disabled
22	22	011600	--	N8	No_Module	FC	(No POD License)	Disabled
23	23	011700	--	N8	No_Module	FC	(No POD License)	Disabled

```
SW300:admin> licenseshow
zScQSS9zd0TdRT8:
  Fabric license
Qf9EREDACTEDA4CXRFZBPPHDKTT7T9KDABJr3P:
  Enhanced Group Management license
MTNREDACTEDMMXK4LRBCMLJGfHTAffDQ3BAPmD:
  8 Gig FC license
License Id:
10:00:00:27:f8:0c:7f:0a
```

```
SW300:admin> zoneshow
Defined configuration:
cfg:   USA_cfg Green_Zone
zone:  Green_Zone
      compel_bottom; compel_top; DNSESXI
alias: DNSESXI 50:01:43:80:28:cd:2b:20
alias: compel_bottom
      50:00:d3:10:05:7f:54:37
alias: compel_top
      50:00:d3:10:05:7f:54:38
```

```
Effective configuration:
cfg:   USA_cfg
zone:  Green_Zone
      50:00:d3:10:05:7f:54:37
      50:00:d3:10:05:7f:54:38
      50:01:43:80:28:cd:2b:20
```

```
SW300:admin> sfpsshow
Port 0: id (sw) Vendor: BROCADE      Serial No: REDACTED732592  Speed:
2,4,8_Gbps
Port 1: id (sw) Vendor: BROCADE      Serial No: REDACTED732752  Speed:
2,4,8_Gbps
Port 2: id (sw) Vendor: BROCADE      Serial No: REDACTED732582  Speed:
2,4,8_Gbps
Port 3: id (sw) Vendor: BROCADE      Serial No: REDACTED732532  Speed:
2,4,8_Gbps
```

Port 4: id (sw) Vendor: BROCADE 2,4,8_Gbps	Serial No: REDACTED001548	Speed:
Port 5: id (sw) Vendor: BROCADE 2,4,8_Gbps	Serial No: REDACTED734182	Speed:
Port 6: id (sw) Vendor: BROCADE 2,4,8_Gbps	Serial No: REDACTED732862	Speed:
Port 7: id (sw) Vendor: BROCADE 2,4,8_Gbps	Serial No: REDACTED732722	Speed:
Port 8: id		
Port 9: id		
Port 10: id		
Port 11: id		
Port 12: id		
Port 13: id		
Port 14: id (sw) Vendor: BROCADE 2,4,8_Gbps	Serial No: REDACTED4349701	Speed:
Port 15: id (sw) Vendor: BROCADE 2,4,8_Gbps	Serial No: REDACTED000014U	Speed:
Port 16: id (sw) Vendor: BROCADE 2,4,8_Gbps	Serial No: REDACTED000040N	Speed:
Port 17: id (sw) Vendor: BROCADE 2,4,8_Gbps	Serial No: REDACTED1037991	Speed:
Port 18: --		
Port 19: --		
Port 20: id (sw) Vendor: BROCADE 2,4,8_Gbps	Serial No: REDACTED00005R4	Speed:
Port 21: --		
Port 22: --		
Port 23: --		

```
SW300:admin> firmwareshow
Appl      Primary/Secondary Versions
-----
FOS       v7.4.2h
          v7.4.2h
SW300:admin> islshow
 1: 1->  8 10:00:50:eb:1a:1f:ec:02    2 SW6505           sp:
8.000G bw:  8.000G
 2: 2->  3 10:00:d8:1f:cc:58:7e:d0    3 DS_7720B        sp:
8.000G bw:  8.000G
```

Brocade 6505

```
SW6505:admin> switchshow
switchName:    SW6505
switchType:    118.1
switchState:   Offline
switchMode:    Native
switchRole:    Disabled
```

```
switchDomain: 2 (unconfirmed)
switchId: fffc02
switchWwn: 10:00:50:eb:1a:1f:ec:02
zoning: ON (USA_cfg)
switchBeacon: OFF
HIF Mode: OFF
```

Index	Port	Address	Media	Speed	State	Proto
0	0	020000	--	N16	No_Module	FC Disabled
1	1	020100	--	N16	No_Module	FC Disabled
2	2	020200	--	N16	No_Module	FC Disabled
3	3	020300	--	N16	No_Module	FC Disabled
4	4	020400	--	N16	No_Module	FC Disabled
5	5	020500	--	N16	No_Module	FC Disabled
6	6	020600	--	N16	No_Module	FC Disabled
7	7	020700	--	N16	No_Module	FC Disabled
8	8	020800	id	N8	No_Sync	FC Disabled
9	9	020900	id	N8	No_Light	FC Disabled
10	10	020a00	id	N8	No_Light	FC Disabled
11	11	020b00	id	N8	No_Light	FC Disabled
12	12	020c00	id	N8	No_Sync	FC Disabled
13	13	020d00	id	N8	No_Light	FC Disabled
14	14	020e00	id	N8	No_Light	FC Disabled
15	15	020f00	id	N8	No_Light	FC Disabled
16	16	021000	id	N8	No_Light	FC Disabled
17	17	021100	id	N8	No_Light	FC Disabled
18	18	021200	id	N8	No_Light	FC Disabled
19	19	021300	id	N8	No_Light	FC Disabled
20	20	021400	id	N8	No_Light	FC Disabled
21	21	021500	id	N8	No_Light	FC Disabled
22	22	021600	id	N8	No_Light	FC Disabled
23	23	021700	id	N8	No_Light	FC Disabled

```
SW6505:admin> licenseshow
rHREDACTEDMY7f4X4H7AaFQNt4DftJQCBALEC:
  Ports on Demand license - additional 12 port upgrade license
License Id:
10:00:50:eb:1a:1f:ec:02
```

```
SW6505:admin> zoneshow
Defined configuration:
  cfg: USA_cfg Green_Zone
  zone: Green_Zone
        compel_bottom; compel_top; DNSESXI
alias: DNSESXI 50:01:43:80:28:cd:2b:20
alias: compel_bottom
        50:00:d3:10:05:7f:54:37
alias: compel_top
```

50:00:d3:10:05:7f:54:38

Effective configuration:

cfg: USA_cfg

zone: Green_Zone

50:00:d3:10:05:7f:54:37

50:00:d3:10:05:7f:54:38

50:01:43:80:28:cd:2b:20

SW6505:admin> sfpshow

Port 0: --

Port 1: --

Port 2: --

Port 3: --

Port 4: --

Port 5: --

Port 6: --

Port 7: --

Port 8: id (sw) Vendor: HP-A BROCADE Serial No: REDACTED67069931

Speed: 2,4,8_Gbps

Port 9: id (sw) Vendor: HP-A BROCADE Serial No: REDACTED67013601

Speed: 2,4,8_Gbps

Port 10: id (sw) Vendor: HP-A BROCADE Serial No: REDACTED67007451

Speed: 2,4,8_Gbps

Port 11: id (sw) Vendor: HP-A BROCADE Serial No: REDACTED67070201

Speed: 2,4,8_Gbps

Port 12: id (sw) Vendor: HP-A BROCADE Serial No: REDACTED67078821

Speed: 2,4,8_Gbps

Port 13: id (sw) Vendor: HP-A BROCADE Serial No: REDACTED67070011

Speed: 2,4,8_Gbps

Port 14: id (sw) Vendor: HP-A BROCADE Serial No: REDACTED67014681

Speed: 2,4,8_Gbps

Port 15: id (sw) Vendor: HP-A BROCADE Serial No: REDACTED67069811

Speed: 2,4,8_Gbps

Port 16: id (sw) Vendor: HP-A BROCADE Serial No: REDACTED67013591

Speed: 2,4,8_Gbps

Port 17: id (sw) Vendor: HP-A BROCADE Serial No: REDACTED67014801

Speed: 2,4,8_Gbps

Port 18: id (sw) Vendor: HP-A BROCADE Serial No: REDACTED67070171

Speed: 2,4,8_Gbps

Port 19: id (sw) Vendor: HP-A BROCADE Serial No: REDACTED67014121

Speed: 2,4,8_Gbps

Port 20: id (sw) Vendor: HP-A BROCADE Serial No: REDACTED67013961

Speed: 2,4,8_Gbps

Port 21: id (sw) Vendor: HP-A BROCADE Serial No: REDACTED67070911

Speed: 2,4,8_Gbps

Port 22: id (sw) Vendor: HP-A BROCADE Serial No: REDACTED67077101

Speed: 2,4,8_Gbps

Port 23: id (sw) Vendor: HP-A BROCADE Serial No: REDACTED67077141

Speed: 2,4,8_Gbps

```
SW6505:admin> firmwareshow
Appl      Primary/Secondary Versions
-----
FOS       v8.2.3a
          v8.2.3a
```

```
SW6505:admin> islshow
 1: 8->  1 10:00:00:27:f8:0c:7f:0a    1 SW300                sp:
8.000G bw:  8.000G
 2: 12-> 0 10:00:d8:1f:cc:58:7e:d0    3 DS_7720B            sp:
8.000G bw:  8.000G CR_RECOV
```

Brocade G720

```
DS_7720B:FID128:admin> switchshow
switchName:      DS_7720B
switchType:      181.0
switchState:     Online
switchMode:      Native
switchRole:      Subordinate
switchDomain:    3
switchId:        fffc03
switchWwn:       10:00:d8:1f:cc:58:7e:d0
zoning:          ON (USA_cfg)
switchBeacon:    OFF
FC Router:       OFF
HIF Mode:        OFF
Allow XISL Use:  OFF
LS Attributes:   [FID: 128, Base Switch: No, Default Switch: Yes, Ficon
Switch: No, Address Mode 0]
Index Port Address  Media Speed  State      Proto
=====
   0   0   030000    id    N8      Online     FC   E-Port
10:00:50:eb:1a:1f:ec:02 "SW6505"
   1   1   030100    id   N32      Online     FC   F-Port   1 N Port + 1 NPIV
public
   2   2   030200    id   N32      Online     FC   F-Port   1 N Port + 1 NPIV
public
   3   3   030300    id    N8      Online     FC   E-Port
10:00:00:27:f8:0c:7f:0a "SW300" (upstream)
   4   4   030400    --   N64      No_Module  FC   (Ports on Demand license
not assigned or reserved yet)
   5   5   030500    --   N64      No_Module  FC   (Ports on Demand license
not assigned or reserved yet)
   6   6   030600    --   N64      No_Module  FC   (Ports on Demand license
not assigned or reserved yet)
   7   7   030700    --   N64      No_Module  FC   (Ports on Demand license
```

```
not assigned or reserved yet)
  8  8  030800  id  N32  No_Light  FC  (Ports on Demand license
not assigned or reserved yet)
  9  9  030900  id  N32  No_Light  FC  (Ports on Demand license
not assigned or reserved yet)
 10 10  030a00  id  N32  No_Light  FC  (Ports on Demand license
not assigned or reserved yet)
 11 11  030b00  id  N32  No_Light  FC  (Ports on Demand license
not assigned or reserved yet)
 12 12  030c00  --  N64  No_Module  FC  (Ports on Demand license
not assigned or reserved yet)
```

```
DS_7720B:FID128:admin> license --show
License Id : 10:00:d8:1f:cc:58:7e:d0
License 1 :
-----
License serial number   : FOS-19-0-04-REDACTED
License features        : Extended Fabric
                        Trunking
                        FICON_CUP
                        Integrated Routing
                        Fabric Vision and IO Insight
Generation date         : 01/21/2021
```

```
DS_7720B:FID128:admin> sfpshow
Port 0: id (sw) Vendor: BROCADE      Serial No: REDACTED8C023531S
Speed: 8,16,32_Gbps
Port 1: id (sw) Vendor: BROCADE      Serial No: REDACTED8C023561S
Speed: 8,16,32_Gbps
Port 2: id (sw) Vendor: BROCADE      Serial No: REDACTED8C023741S
Speed: 8,16,32_Gbps
Port 3: id (sw) Vendor: BROCADE      Serial No: REDACTED8C023491S
Speed: 8,16,32_Gbps
Port 4: Media not installed
Port 5: Media not installed
Port 6: Media not installed
Port 7: Media not installed
Port 8: id (sw) Vendor: BROCADE      Serial No: REDACTED8C023641S
Speed: 8,16,32_Gbps
Port 9: id (sw) Vendor: BROCADE      Serial No: REDACTED8C023541S
Speed: 8,16,32_Gbps
Port 10: id (sw) Vendor: BROCADE     Serial No: REDACTED8C023761S
Speed: 8,16,32_Gbps
Port 11: id (sw) Vendor: BROCADE     Serial No: REDACTED8C023551S
Speed: 8,16,32_Gbps
Port 12: Media not installed
Port 13: Media not installed
```

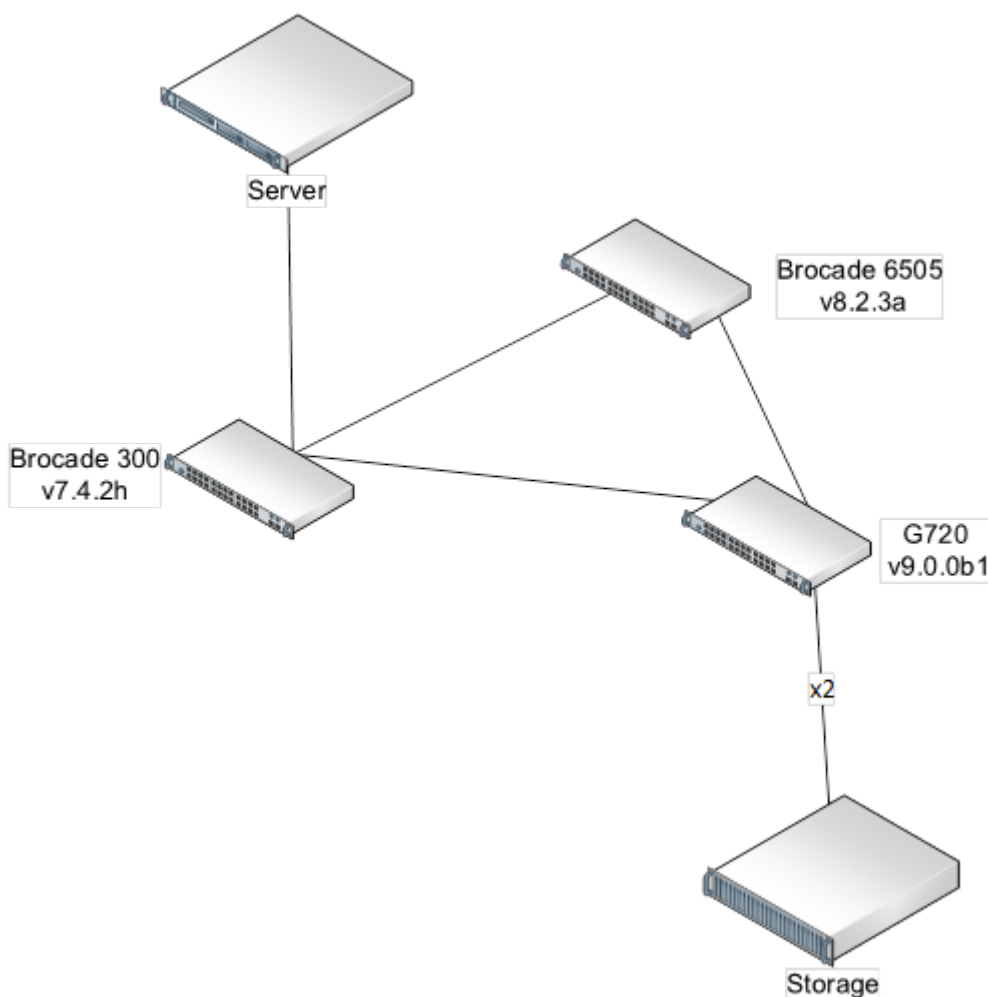
```
DS_7720B:FID128:admin> firmwareshow
Appl      Primary/Secondary Versions
-----
```

FOS v9.0.0b1
v9.0.0b1

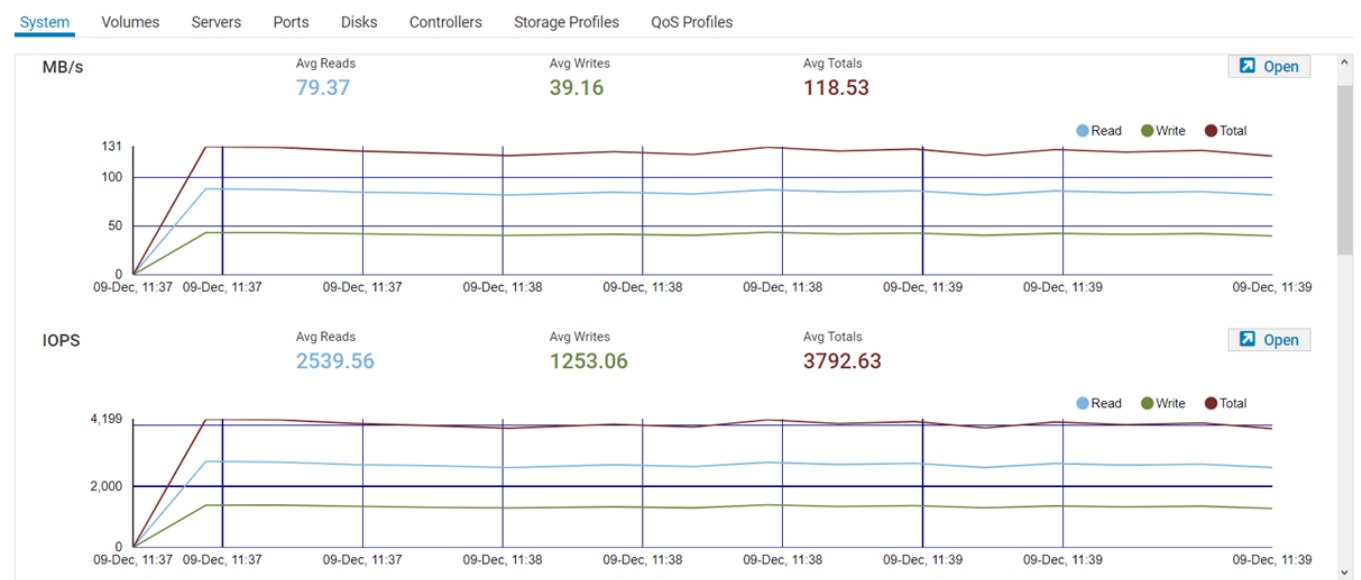
DS_7720B:FID128:admin> islshow

1: 0-> 12 10:00:50:eb:1a:1f:ec:02	2 SW6505	sp:
8.000G bw: 8.000G CR_RECOV		
2: 3-> 2 10:00:00:27:f8:0c:7f:0a	1 SW300	sp:
8.000G bw: 8.000G		

Вариант 1



В данном варианте рассматривается подключение нового коммутатора G720 сразу ко всем имеющимся коммутаторам под управлением FOS7 и FOS8. На хосте развернута виртуальная машина с генерацией нагрузки. Приведены графики с СХД.



```
DS_7720B:FID128:admin> fabricshow
```

Switch ID	Worldwide Name	Enet IP Addr	FC IP Addr	Name
1:	fffc01 10:00:00:27:f8:0c:7f:0a	10.20.128.13	0.0.0.0	"SW300"
2:	fffc02 10:00:50:eb:1a:1f:ec:02	10.20.128.14	0.0.0.0	>"SW6505"
3:	fffc03 10:00:d8:1f:cc:58:7e:d0	10.20.128.15	0.0.0.0	

"DS_7720B"

The Fabric has 3 switches

```
DS_7720B:FID128:admin> zoneshow
```

Defined configuration:

```
cfg:  USA_cfg Green_Zone
zone:  Green_Zone
      compel_bottom; compel_top; DNSESXI
alias: DNSESXI 50:01:43:80:28:cd:2b:20
alias: compel_bottom
      50:00:d3:10:05:7f:54:37
alias: compel_top
      50:00:d3:10:05:7f:54:38
```

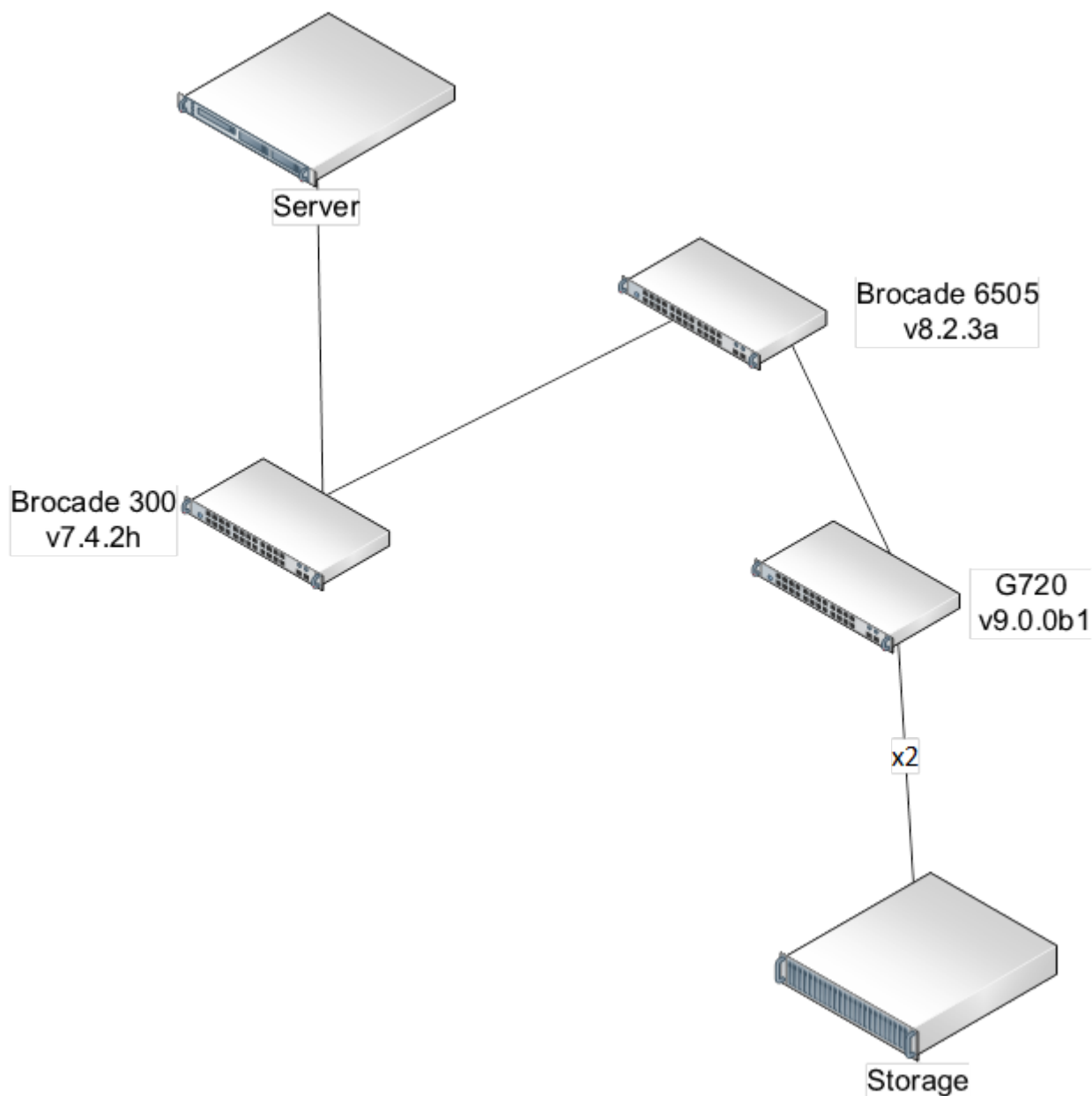
Effective configuration:

```
cfg:  USA_cfg
zone:  Green_Zone
      50:00:d3:10:05:7f:54:37
      50:00:d3:10:05:7f:54:38
      50:01:43:80:28:cd:2b:20
```

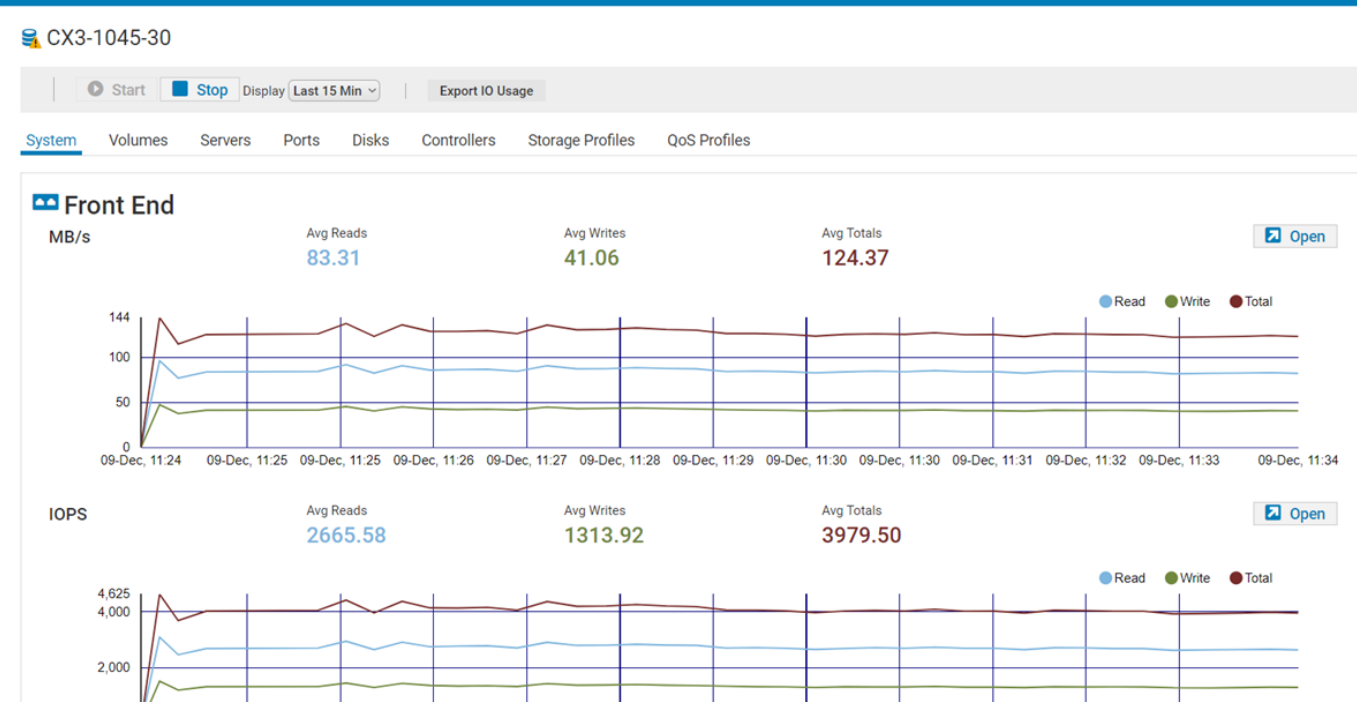
```
DS_7720B:FID128:admin> islshow
```

1:	0->	12 10:00:50:eb:1a:1f:ec:02	2 SW6505	sp:
8.000G bw: 8.000G CR_RECOV				
2:	3->	2 10:00:00:27:f8:0c:7f:0a	1 SW300	sp:
8.000G bw: 8.000G				

Вариант 2



В данном варианте рассматривается подключение нового коммутатора G720 к коммутатору под управлением FOS8. Связанность сервера и СХД происходит через три коммутатора. На хосте развернута виртуальная машина с генерацией нагрузки. Приведены графики с СХД.



```
DS_7720B:FID128:admin> fabricshow
Switch ID      Worldwide Name      Enet IP Addr      FC IP Addr      Name
-----
1: fffc01 10:00:00:27:f8:0c:7f:0a 10.20.128.13      0.0.0.0          "SW300"
2: fffc02 10:00:50:eb:1a:1f:ec:02 10.20.128.14      0.0.0.0          >"SW6505"
3: fffc03 10:00:d8:1f:cc:58:7e:d0 10.20.128.15      0.0.0.0
"DS_7720B"
```

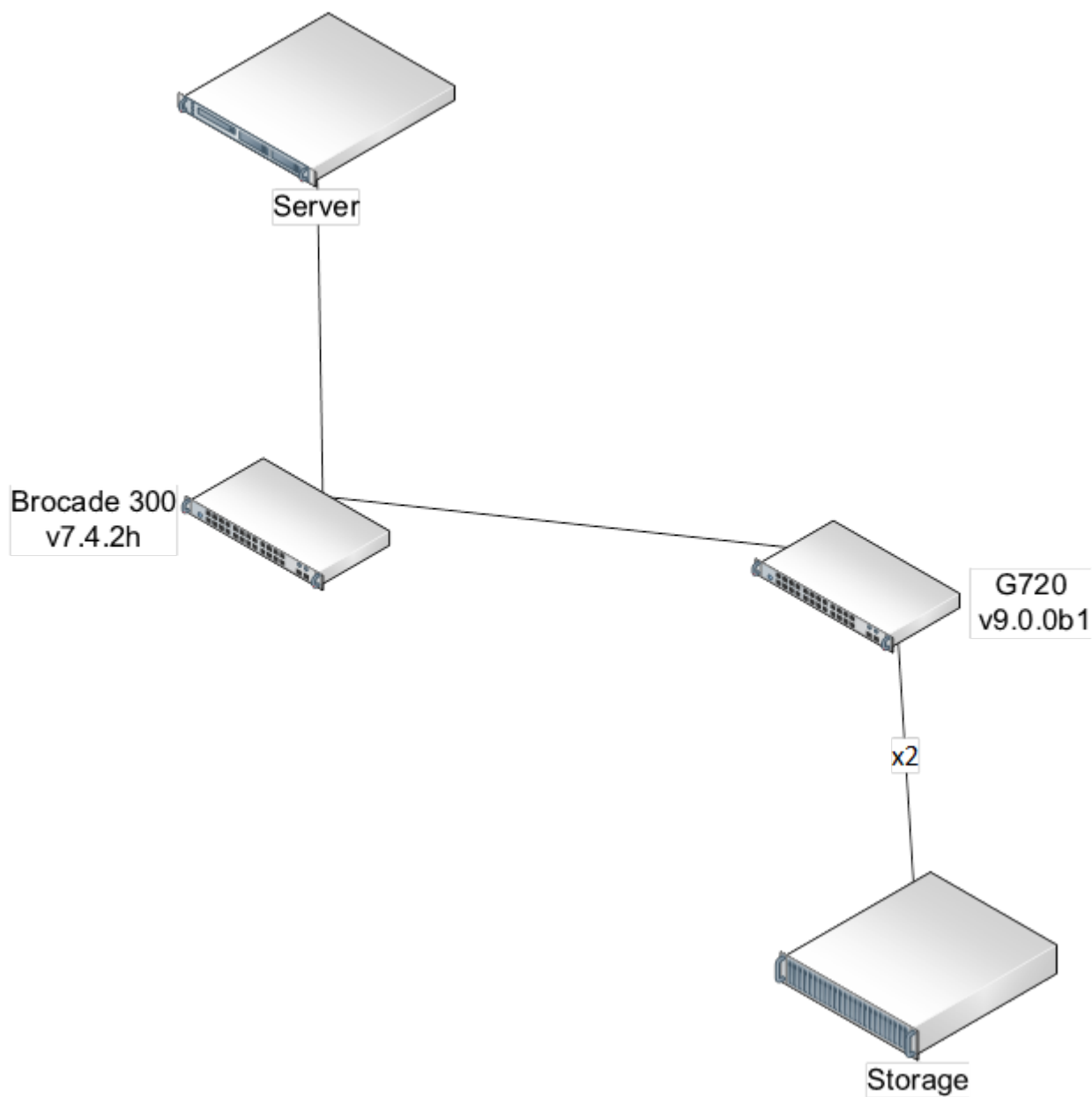
The Fabric has 3 switches

```
DS_7720B:FID128:admin> zoneshow
Defined configuration:
cfg:   USA_cfg Green_Zone
zone:  Green_Zone
        compel_bottom; compel_top; DNSESXI
alias: DNSESXI 50:01:43:80:28:cd:2b:20
alias: compel_bottom
        50:00:d3:10:05:7f:54:37
alias: compel_top
        50:00:d3:10:05:7f:54:38

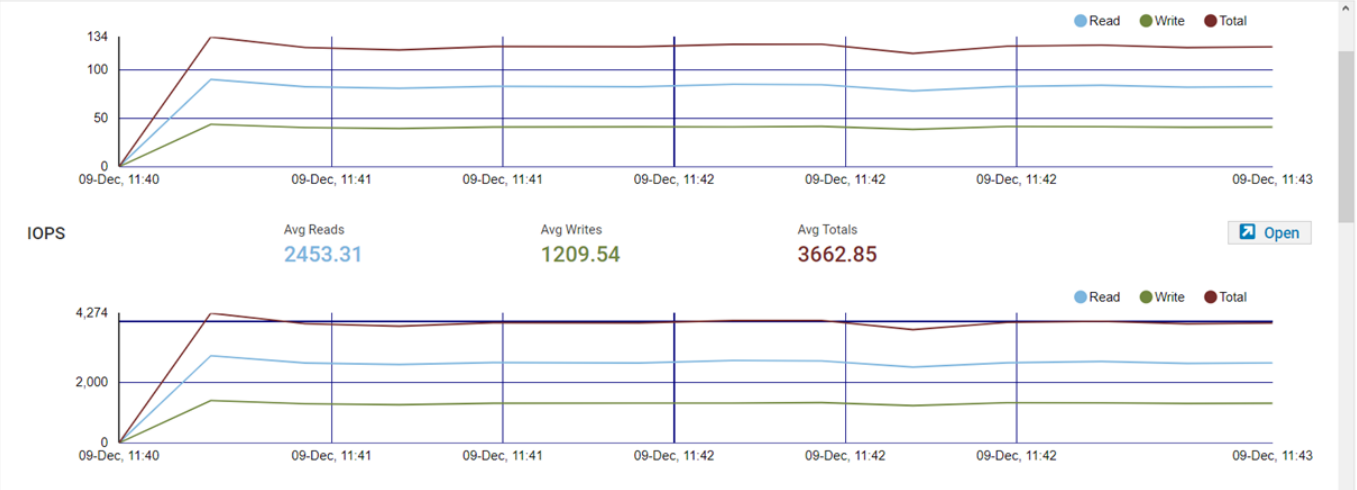
Effective configuration:
cfg:   USA_cfg
zone:  Green_Zone
        50:00:d3:10:05:7f:54:37
        50:00:d3:10:05:7f:54:38
        50:01:43:80:28:cd:2b:20
```

```
DS_7720B:FID128:admin> islshow
1: 0-> 12 10:00:50:eb:1a:1f:ec:02      2 SW6505      sp:
8.000G bw: 8.000G CR_RECOV
```

Вариант 3



Данная схема рассматривает вариант соединения FOS v9 и FOS v7 напрямую. На хосте развернута виртуальная машина с генерацией нагрузки. Приведены графики с СХД.



```
DS_7720B:FID128:admin> fabricshow
```

Switch ID	Worldwide Name	Enet IP Addr	FC IP Addr	Name
1:	fffc01 10:00:00:27:f8:0c:7f:0a	10.20.128.13	0.0.0.0	>"SW300"
3:	fffc03 10:00:d8:1f:cc:58:7e:d0	10.20.128.15	0.0.0.0	

"DS_7720B"

```
DS_7720B:FID128:admin> zoneshow
```

Defined configuration:

```
cfg:  USA_cfg Green_Zone
zone:  Green_Zone
      compel_bottom; compel_top; DNSESXI
alias: DNSESXI 50:01:43:80:28:cd:2b:20
alias: compel_bottom
      50:00:d3:10:05:7f:54:37
alias: compel_top
      50:00:d3:10:05:7f:54:38
```

Effective configuration:

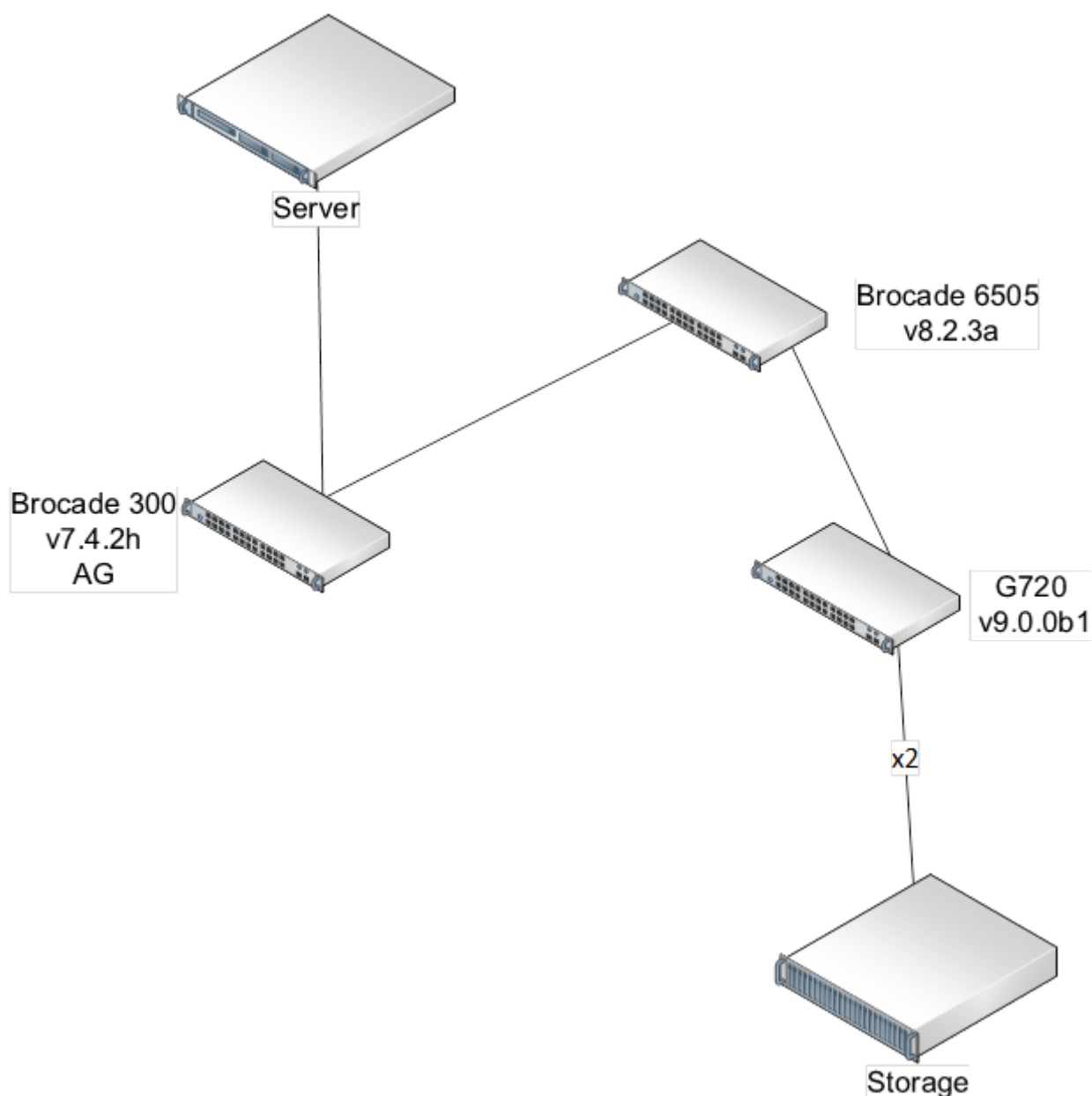
```
cfg:  USA_cfg
zone:  Green_Zone
      50:00:d3:10:05:7f:54:37
      50:00:d3:10:05:7f:54:38
      50:01:43:80:28:cd:2b:20
```

```
DS_7720B:FID128:admin> islshow
```

1:	3->	2	10:00:00:27:f8:0c:7f:0a	1	SW300	sp:
----	-----	---	-------------------------	---	-------	-----

8.000G bw: 8.000G

Вариант 4 - Access Gateway



В данном варианте подключения коммутатор Brocade 300 переводится в режим Access Gateway.

- Сервер подключен в порт №0
- Коммутатор 6505 подключен в порт №1
- Коммутатор G720 подключен в порт №2.

Производится мапинг сервера на порту №0 в порт №1. Пример выполнения команд приведен ниже. Переключение в режим AG производится с остановкой ввода вывода. Коммутатор необходимо деактивировать, перезагрузить и затем настроить мапинг портов сервера на порты «аплинка». Это длительная операция, требующая предварительного планирования.

```
SW300:admin> switchdisable
SW300:admin> ag --modeenable
WARNING: Access Gateway mode changes the standard behavior of the switch.
Please check Access Gateway Administrator's Guide before proceeding.
```

```

Enabling agmode will remove all the configuration data on the switch
including zoning configuration, FAWWN configuration and security database.
Please backup your
configuration using configupload.
This operation will reboot the switch.
Do you want to continue? (yes, y, no, n): [no] yes
The following configurations need to be disabled before enabling the AG mode
in the switch:
ERROR: Authentication policies are enabled in the switch.
Please disable the Authentication policies using the authutil --policy -
sw(switch)/-dev(device)

```

```

SW300:admin> authutil --policy -sw off
Warning: Activating the authentication policy requires either DH-CHAP
secrets or PKI certificates depending on the protocol selected. Otherwise,
ISLs will be segmented during next E-port
bring-up.
ARE YOU SURE (yes, y, no, n): [no] yes
Auth Policy is set to OFF

```

```

SW300:admin> ag --modeenable
WARNING: Access Gateway mode changes the standard behavior of the switch.
Please check Access Gateway Administrator's Guide before proceeding.
Enabling agmode will remove all the configuration data on the switch
including zoning configuration, FAWWN configuration and security database.
Please backup your
configuration using configupload.
This operation will reboot the switch.
Do you want to continue? (yes, y, no, n): [no] yes
Access Gateway mode was enabled successfully
Switch is being rebooted...
Rebooting! Thu Dec 9 16:56:54 UTC 2021

```

```

SW300:admin> ag --mapshow

```

N_Port	Configured_F_Ports	Static_F_Ports	Current_F_Ports	Failover
Failback PG_ID PG_Name				
0 16 0;1 pg0		None	None	1 1
0 17 2;3 pg0		None	None	1 1
0 18 4;5 pg0		None	None	1 1
0 19 6;7 pg0		None	None	1 1
0 20 8;9 pg0		None	None	1 1
0 21 10;11 pg0		None	None	1 1
0 22 12;13 pg0		None	None	1 1

0	pg0					
23	14;15	None	None	1	1	
0	pg0					

SW300:admin> portcfgnport 16-23 0

SW300:admin> portcfgnport 1 1

SW300:admin> portcfgnport 2 1

SW300:admin> ag --mapshow						
N_Port	Configured_F_Ports	Static_F_Ports	Current_F_Ports	Failover		
Failback	PG_ID PG_Name					

1	None	None	None	1	1	
0	pg0					
2	None	None	None	1	1	
0	pg0					

SW300:admin> ag --mapadd 1 0
F_Port to N_Port mapping has been updated successfully

SW300:admin> ag --mapshow						
N_Port	Configured_F_Ports	Static_F_Ports	Current_F_Ports	Failover		
Failback	PG_ID PG_Name					

1	0	None	0	1	1	
0	pg0					
2	None	None	None	1	1	
0	pg0					

SW300:admin> switchshow
switchName: SW300
switchType: 71.2
switchState: Online
switchMode: Access Gateway Mode
switchWwn: 10:00:00:27:f8:0c:7f:0a
switchBeacon: OFF

Index	Port	Address	Media	Speed	State	Proto	
=====							
0	0	010000	id	N8	Online	FC	F-Port
50:01:43:80:28:cd:2b:20 0x020801							
1	1	010100	id	N8	Online	FC	N-Port
10:00:50:eb:1a:1f:ec:02 0x020800							
2	2	010200	id	N8	Online	FC	N-Port
10:00:d8:1f:cc:58:7e:d0 0x030300							
3	3	010300	id	N8	No_Light	FC	Disabled (No mapping for F-Port)
4	4	010400	id	N8	No_Light	FC	Disabled (No mapping for F-Port)
5	5	010500	id	N8	No_Light	FC	Disabled (No mapping for F-Port)
6	6	010600	id	N8	No_Light	FC	Disabled (No mapping for F-Port)
7	7	010700	id	N8	No_Light	FC	Disabled (No mapping for F-Port)
8	8	010800	id	N8	No_Light	FC	(No POD License) Disabled
9	9	010900	id	N8	No_Light	FC	(No POD License) Disabled
10	10	010a00	id	N8	No_Light	FC	(No POD License) Disabled
11	11	010b00	id	N8	No_Light	FC	(No POD License) Disabled
12	12	010c00	id	N8	No_Light	FC	(No POD License) Disabled
13	13	010d00	id	N8	No_Light	FC	(No POD License) Disabled
14	14	010e00	id	N8	No_Light	FC	(No POD License) Disabled
15	15	010f00	id	N8	No_Light	FC	(No POD License) Disabled
16	16	011000	id	N8	No_Light	FC	(No POD License) Disabled
17	17	011100	id	N8	No_Light	FC	(No POD License) Disabled
18	18	011200	--	N8	No_Module	FC	(No POD License) Disabled
19	19	011300	--	N8	No_Module	FC	(No POD License) Disabled
20	20	011400	id	N8	No_Light	FC	(No POD License) Disabled
21	21	011500	--	N8	No_Module	FC	(No POD License) Disabled
22	22	011600	--	N8	No_Module	FC	(No POD License) Disabled
23	23	011700	--	N8	No_Module	FC	(No POD License) Disabled

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