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The BEST IEWB v4 Dynamips Topology

February 16th, 2008 by admin

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Posted: Mon Jan 14, 2008 6:42 pm Post subject: The BEST IEWB v4 Dynamips Topology

Here it is, the long awaited, hotly debated, highly anticipated, the one and only (mostly), Dynamips CCIE IEWB v4 Lab Topology (unofficial, bien sur) This version includes [LAN and WAN](#) gif's with the interfaces labeled appropriately. 3640's are used exclusively. Interface numberings were kept the same where possible and were changed in a consistent, logical fashion where needed. For example, the serial interfaces on the routers are in the same port, but one slot greater (e.g., IWEB R1 Serial0/0 -> Dynamips R1 Serial

1/0).

The zip file also includes a Notes.txt file which summarizes the changes, and how to prep the initial configs for easy loading into the lab. Much of the configs and info to construct them was gleaned from other postings on this forum and from trial and error.

Please feel free to make improvements/changes and post them back here for the rest of us.

HTH

—
Dave

```
#####  
#  
# Internetwork Expert Routing & Switching topology Version 4.0 mappings for dynamips/dynagen  
# by: Brian McGahan, CCIE #8593  
# bmcgahan@internetworkexpert.com  
#  
# For more information:  
# Dynamips: http://www.ipflow.utc.fr/index.php/Cisco\_7200\_Simulator  
# Dynagen: http://dyna-gen.sourceforge.net/  
# Hacki? Forum: http://hacki.at/7200emu/index.php  
# Internetwork Expert's Forum: http://forum.internetworkexpert.com  
#  
#####  
#*****#  
# Ease of use modifications by: #  
# David Rosen #  
#*****#  
#####  
#  
# Define global router parameters for instance 1  
#  
#####  
autostart = False  
[localhost:7200]  
  
workingdir = C:\Program Files\Dynamips\sample_labs\IEWBv4Dynagen\working  
  
[[3640]]  
#  
# Specify 3640 IOS image on Windows here:  
#  
# Specify 3640 IOS image on Linux here:  
image = C:\Program Files\Dynamips\images\c3640-jk9o3s-mz.124-16.extracted.bin  
#
```

```
ram = 128
disk0 = 0
disk1 = 0
idlepc = 0x604d1a9c
mmap = True
# ghostios = true
```

```
#####
#
# Define router instances
#
#####
```

```
[[Router R1]]
model = 3640
autostart = False
slot0 = NM-1FE-TX
slot1 = NM-4T
F0/0 = SW1 F0/1
S1/0 = FRSW 1
#cnfg = /opt/dynamips/labs/ie/initial.configs/R1.initial.config.txt
```

```
[[Router R2]]
model = 3640
autostart = False
slot0 = NM-1FE-TX
slot1 = NM-4T
F0/0 = SW2 F0/2
S1/0 = FRSW 2
#cnfg = /opt/dynamips/labs/ie/initial.configs/R2.initial.config.txt
```

```
[[Router R3]]
model = 3640
autostart = False
slot0 = NM-4E
slot1 = NM-4T
S1/0 = FRSW 3
S1/1 = FRSW 13
S1/2 = R1 S1/1
S1/3 = R2 S1/1
E0/0 = SW1 F0/3
E0/1 = SW3 F0/3
#cnfg = /opt/dynamips/labs/ie/initial.configs/R3.initial.config.txt
```

```
[[Router R4]]
model = 3640
autostart = False
slot0 = NM-4E
slot1 = NM-4T
E0/0 = SW2 F0/4
E0/1 = SW4 F0/4
S1/0 = FRSW 4
S1/1 = R5 S1/1
#cnfg = /opt/dynamips/labs/ie/initial.configs/R4.initial.config.txt
```

```
[[Router R5]]
model = 3640
autostart = False
slot0 = NM-4E
slot1 = NM-4T
E0/0 = SW1 F0/5
E0/1 = SW3 F0/5
S1/0 = FRSW 5
```

```
#cnfg = /opt/dynamips/labs/ie/initial.configs/R5.initial.config.txt
```

```
[[Router R6]]
model = 3640
autostart = False
slot0 = NM-4E
slot1 = NM-4T
E0/0 = SW2 F0/6
E0/1 = SW4 F0/6
S1/0 = FRSW 6
```

```
#cnfg = /opt/dynamips/labs/ie/initial.configs/R6.initial.config.txt
```

```
[[Router SW1]]  
model = 3640  
autostart = False  
slot0 = NM-16ESW
```

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```
F0/7 = SW2 F0/7  
F0/8 = SW2 F0/8  
F0/9 = SW2 F0/9  
F0/10 = SW3 F0/7  
F0/11 = SW3 F0/8  
F0/12 = SW3 F0/9  
F0/13 = SW4 F0/7  
F0/14 = SW4 F0/8  
F0/15 = SW4 F0/9
```

```
#cnfg = /opt/dynamips/labs/ie/initial.configs/SW1.initial.config.txt
```

```
#####  
#  
# Define global router parameters for instance 2  
#  
#####
```

```
[localhost:7201] # Talk to the 2nd dynamips process on port 7201  
udp = 11000 # Change the base udp port to 11000 (the default is 10000)
```

```
# workingdir = C:\Program Files\Dynamips\sample_labs\internetworkexpert\working  
workingdir = C:\Program Files\Dynamips\sample_labs\IEWBv4Dynagen\working
```

```
[[3640]]  
#  
# Specify 3640 IOS image on Windows here:  
#  
# Specify 3640 IOS image on Linux here:  
image = C:\Program Files\Dynamips\images\c3640-jk9o3s-mz.124-16.extracted.bin  
#  
ram = 128  
disk0 = 0  
disk1 = 0  
# Choose an idlepc value from the below  
idlepc = 0x604d1a9c  
mmap = True  
# ghostios = true
```

```
#####  
#  
# Define router instances  
#  
#####
```

```
[[Router SW2]]  
model = 3640  
autostart = False  
slot0 = NM-16ESW  
F0/10 = SW3 F0/10  
F0/11 = SW3 F0/11  
F0/12 = SW3 F0/12
```

```
F0/13 = SW4 F0/10
F0/14 = SW4 F0/11
F0/15 = SW4 F0/12
F0/0 = BB2 E0/0
```

```
#cnfg = /opt/dynamips/labs/ie/initial.configs/SW2.initial.config.txt
```

```
[[Router SW3]]
model = 3640
autostart = False
slot0 = NM-16ESW
F0/13 = SW4 F0/13
F0/14 = SW4 F0/14
F0/15 = SW4 F0/15
F0/0 = BB3 E0/0
```

```
#cnfg = /opt/dynamips/labs/ie/initial.configs/SW3.initial.config.txt
```

```
[[Router SW4]]
model = 3640
autostart = False
slot0 = NM-16ESW
```

```
#cnfg = /opt/dynamips/labs/ie/initial.configs/SW4.initial.config.txt
```

```
[[Router BB1]]
model = 3640
autostart = False
slot1 = NM-4T
S1/0 = BB3 S1/0
S1/1 = FRSW 21
E0/0 = BB3 E0/1
```

```
#cnfg = /opt/dynamips/labs/ie/initial.configs/BB1.initial.config.txt
```

```
[[Router BB2]]
model = 3640
autostart = False
slot0 = NM-4E
#E0/0 = SW2 F0/0
```

```
#cnfg = /opt/dynamips/labs/ie/initial.configs/BB2.initial.config.txt
```

```
[[Router BB3]]
model = 3640
autostart = False
slot0 = NM-4E
slot1 = NM-4T
#E0/0 = SW3 F0/0
```

```
#cnfg = /opt/dynamips/labs/ie/initial.configs/BB3.initial.config.txt
```

```
[[FRSW FRSW]]
```

```
# R1 to FRSW
1:102 = 2:201
1:103 = 3:301
1:113 = 13:311
1:104 = 4:401
1:105 = 5:501
```

```
# R2 to FRSW
2:203 = 3:302
2:213 = 13:312
2:204 = 4:402
2:205 = 5:502
```

```
# R3 to FRSW
3:304 = 4:403
3:305 = 5:503
13:314 = 4:413
13:315 = 5:513
```

```
# R4 to FRSW
4:405 = 5:504
```

R6 to FRSW

6:51 = 21:51

6:100 = 21:100

6:101 = 21:101

6:201 = 21:201

6:301 = 21:301

6:401 = 21:401

Dynamips Topology Notes

For the Switch-to-Switch connections:

- Fa0/1 - 6: These remain the same
- Fa0/13 - 21: Subtract 6 from IEWB config to get the interface number
EX: IEWB SW1 Fa0/16 becomes SW1 Fa0/10
- Fa0/24 == Fa0/0: Switch-to-BB router connections are on Fa0/0
- All other switch connections remain the same

LAN connections are primarily the same, but Gig connections become FastE instead.

WAN connections are generally 1 slot greater, but same port number

- EX R1 S0/0 becomes R1 S1/0

The initial configs need to be updated before using them.

-Routers:

- 1) Change the Serial interface numbers on the routers (e.g., 'int Ser0/0' becomes 'int ser1/0')
- 2) Change all 'interface GigabitEthernet' to 'interface Ethernet'

-Switches:

- 1) Change the FastEthernet interface numbers per above description
 - a) Fa0/1 - 6: no change
 - b) Fa0/13 - 21: Subtract 6 from this number (becomes Fa0/7 - 15)
 - c) Fa0/24: Change to Fa0/0

After modifying the configs, change the name of the file to end in '.cfg' and to match the device name (R1.cfg, SW1.cfg, etc). This will allow you to use the 'import /all' command in Dynagen.

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