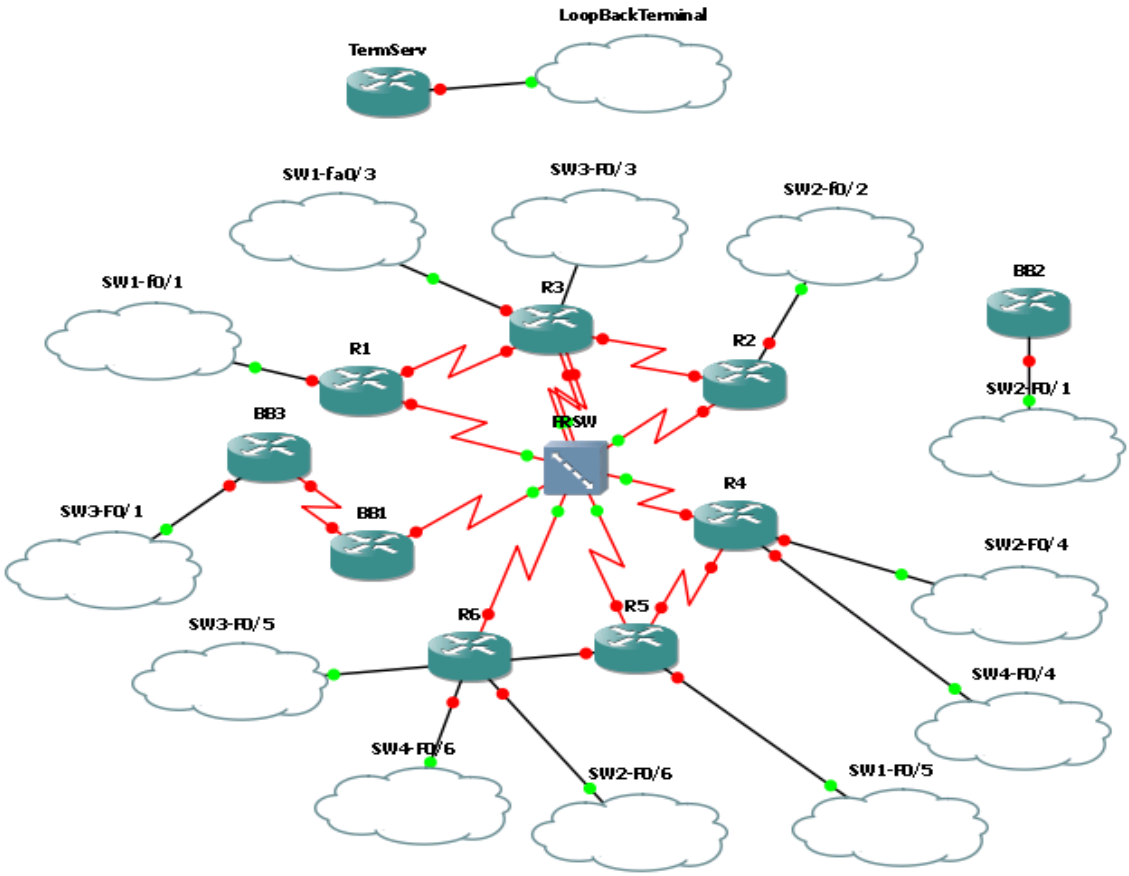
Install GNS3 on Windows XP

Application: GNS3
Submitted By: Oğlum AVD için; oglumavdicin@gmail.com and friend Roman
Date: 11/23/08
Rev: 1.0
Network Location: http://www.gns3.net/phpBB/howtos-f10.html
Prerequisite: Install GNS3 ☺ and minimum XP SP1A.
Overview: Install GNS3 on Windows XP, connect to real switches, frame switch, Load-Balance hypervisor with GNS3, simple network topology, and screen prints …more.

THIS PROCEDURE MADE UP WITHIN MULTIPLE PARTS:

1. Directory structure
2. GNS3 configurations
3. Configure Hypervisor
4. Edit Dynamips on the client
5. Edit Dynamips on the Server
6. Start Dynamips on SVR and Client
7. Start GNS3 and create simple topology



PART 1: DIRECTORY STRUCTURES

Step →1: Directory to work with… etc.
let's create some directories in the server, remote PC and call it "GNS3"
Server: C:\GNS3 and remote pc(s): C:\GNS3

Step → 2: Image directory… etc.
Server: C:\GNS3\images\ and remote pc(s): C:\GNS3\images\
Copy all the images you are planning use to both **directories**

Step → 3: Folder for "work area" … etc.
Server: C:\GNS3\workarea\ and remote pc(s): C:\GNS3\workarea\

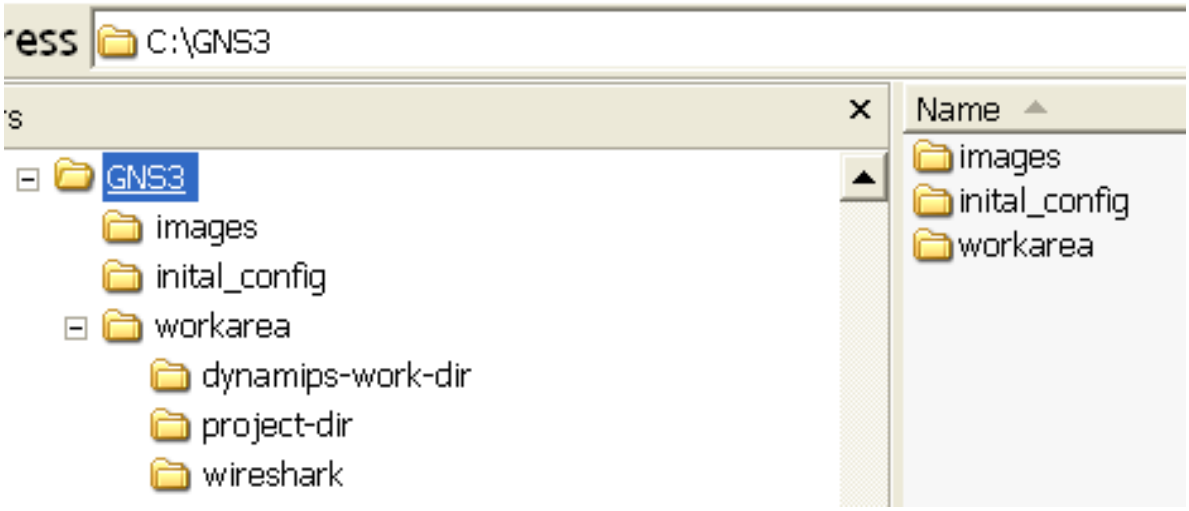
Step → 4: Folder for router initial configurations… etc.
Server: C:\GNS3\inital_config\ and remote pc(s): C:\GNS3\inital_config\

Step → 5: Folder for Dynamips work area… etc.
Server: C:\GNS3\workarea\dynamips-work-dir\ and remote pc(s): C:\GNS3\workarea\dynamips-work-dir\

Step → 6: Folder for your project directory… etc.
Server: C:\GNS3\workarea\project-dir\ and remote pc(s): C:\GNS3\workarea\project-dir\

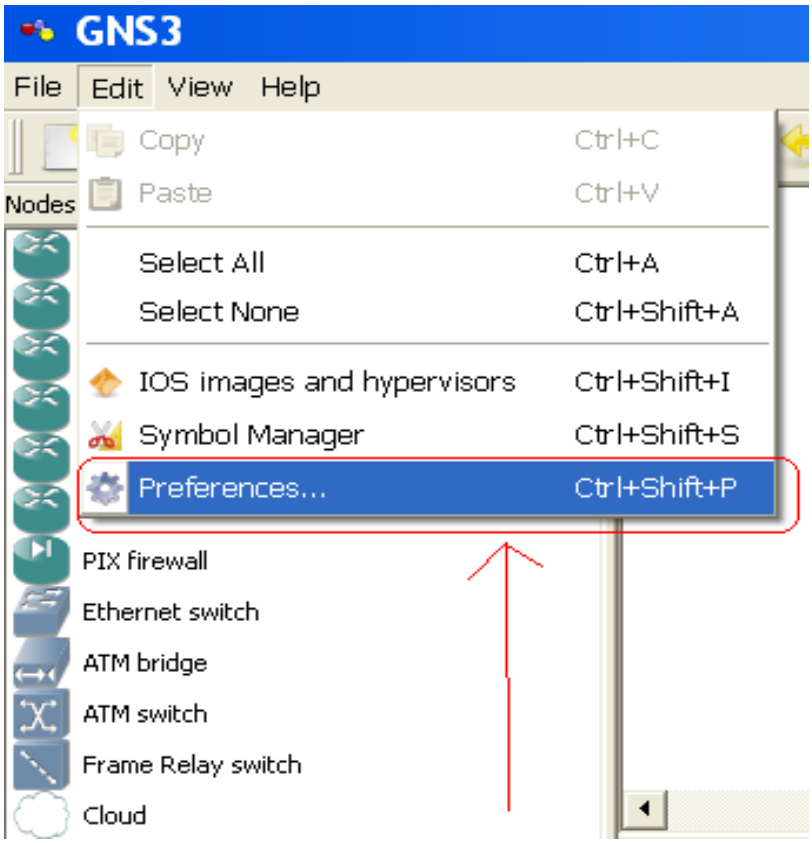
Step → 7: Folder for capture directory… etc.
Server: C:\GNS3\workarea\wireshark\ and remote pc(s): C:\GNS3\workarea\wireshark\

Your directory should look like this or **what is best works for you**…

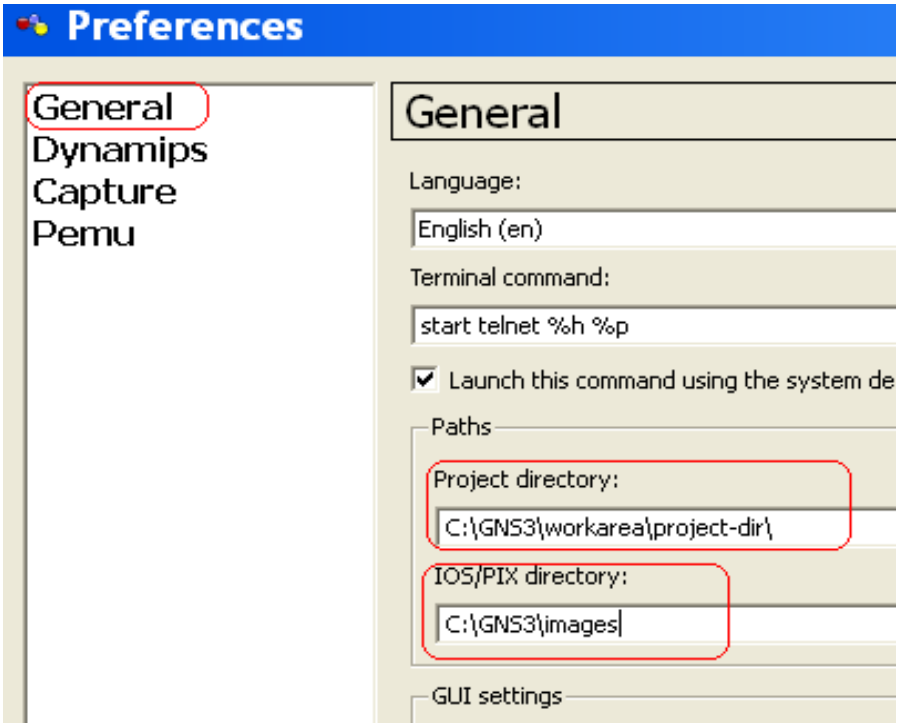


PART 2: CONFIGURE GNS3

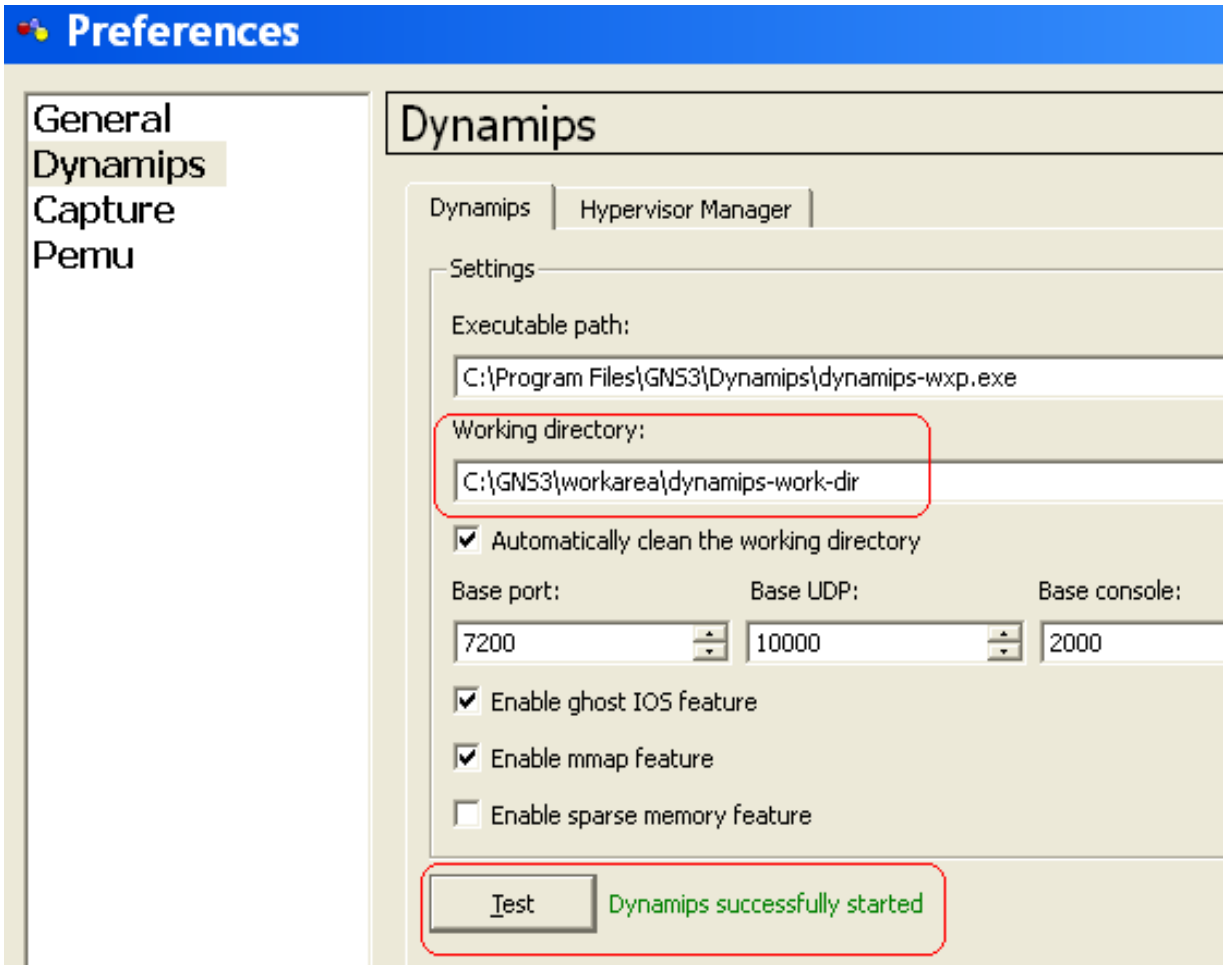
Step →1: Configure Preferences General… etc.
Select → Edit → Preferences



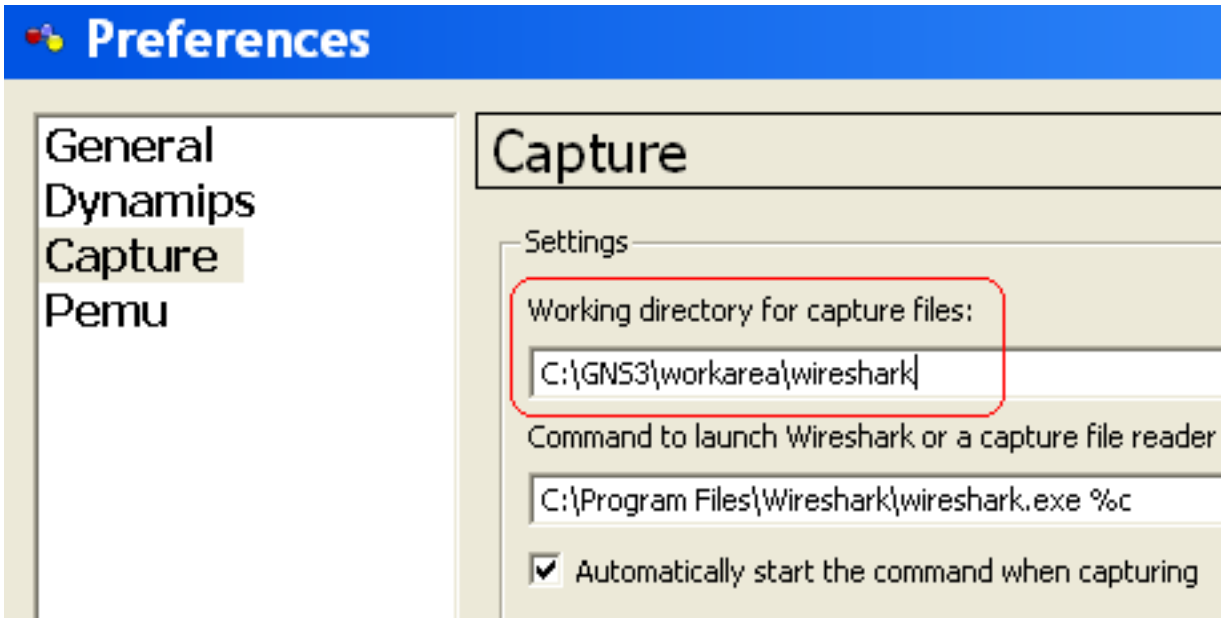
Select → General; fill out the required fields apply, OK.



Step → 2: Configure Preferences Dynamips; fill out the required fields, test, apply and OK.

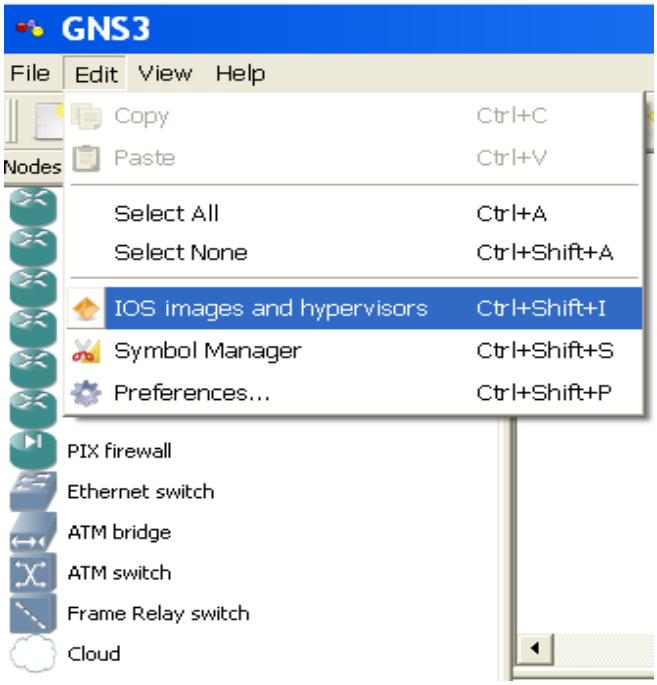


Step → 3: Configure Preferences Capture; fill out the required fields apply, OK.

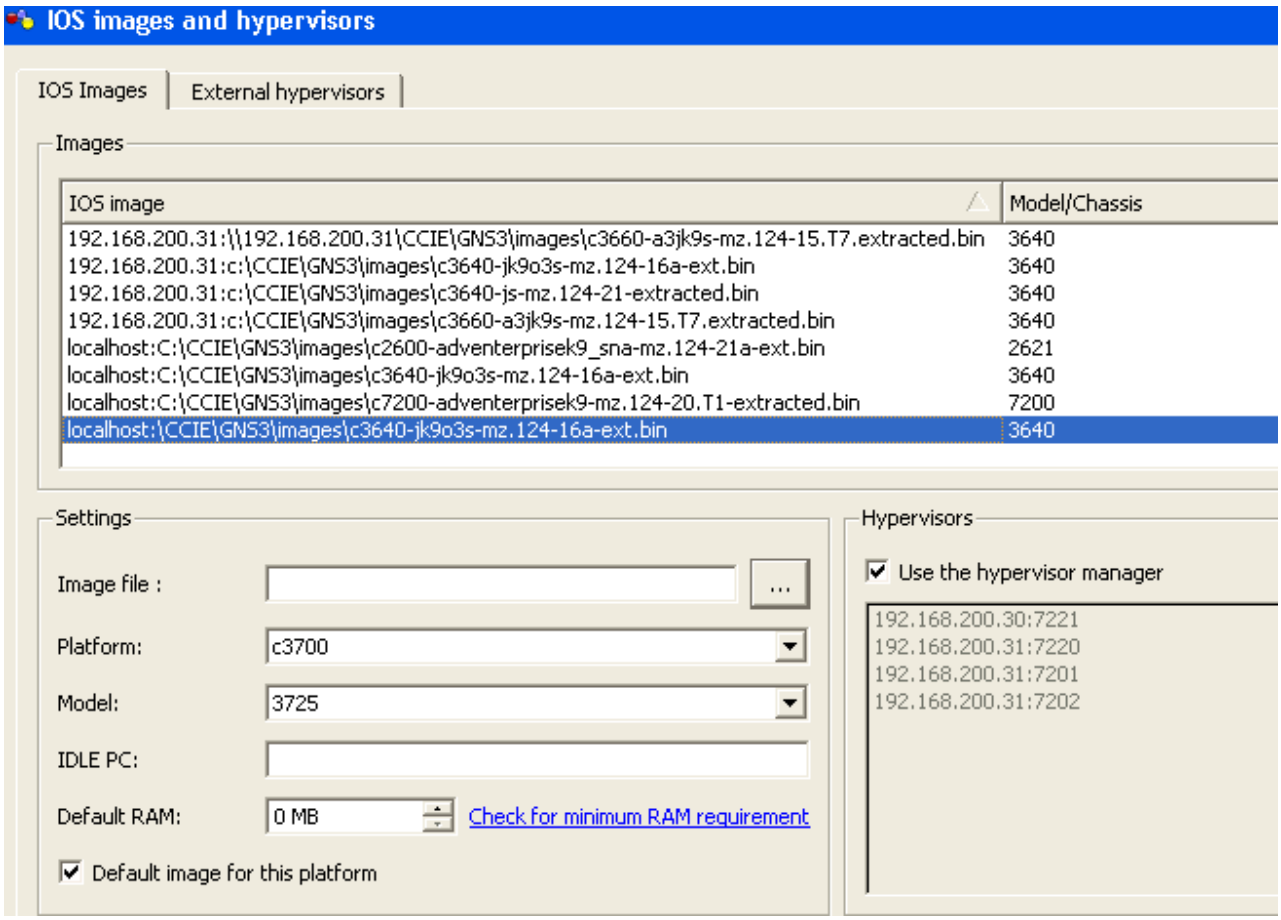


Step → 4: Configure hypervisor…… etc.

Select; Edit → IOS images and hypervisor



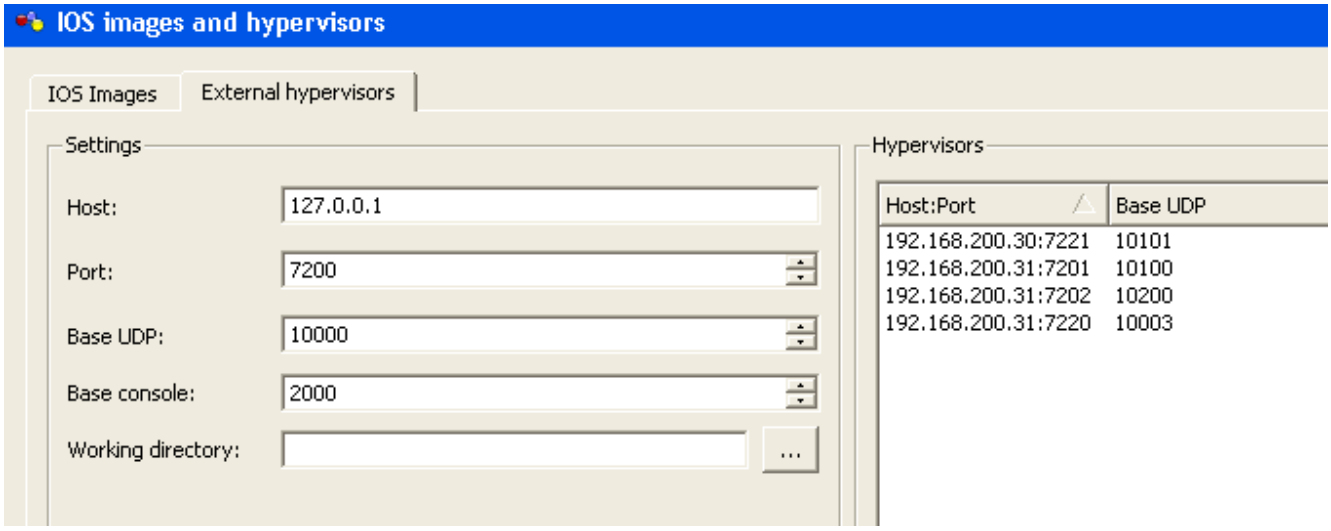
Select the image file, platform, model and uncheck default image… box and leave rest default, apply, OK.



PART 3: CONFIGURE HYPERVISOR

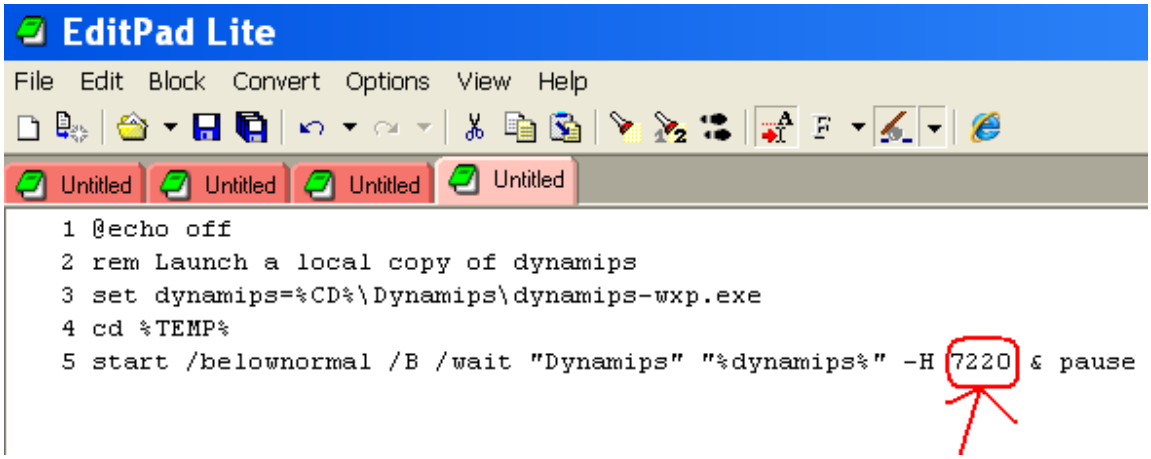
Step → 1: Configure hypervisor… etc.
Select; Edit → IOS images and hypervisor and click on "External Hypervisor" tab
Host: Your remote PC, to add more host, simply follow same steps, change IP, Port, UDP and console port
Note: XP SP2 or SP3 users; either turn of your firewall or create exceptions for dynamips and ports!
Select; Start →Control Panel → Windows Firewall; click on Exception tab. Click on "Add Program" for dynamips and click on "Add Port"

→ After filling out rest of the fields, click on "save" and click on "IOS Images" tab



PART 4: EDIT DYNAMIPS FILE ON THE CLIENT

Step → 1: Remote or login the remote PC and →Start → Run →type "C:\Program Files\GNS3\"
Find "dynamips-start.cmd" edit with your favorite editor;
Change line five where it says 7200 to 7220

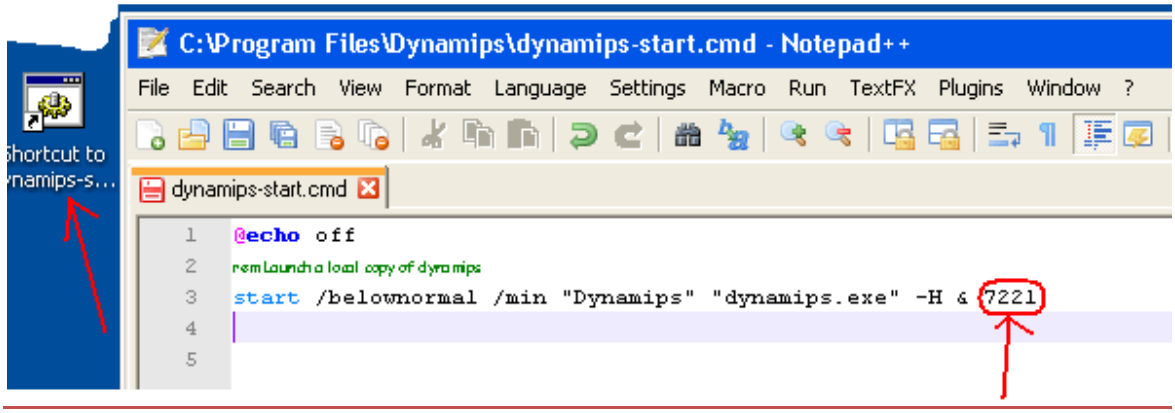


Recommend creating a shortcut for "dynamips-start.cmd" to on your desktop, because your going to use this quite frequently because everything stop the router, you need to shutdown and restart it ☹

Oğlum AVD için; oglumavdicin@gmail.com

PART 5: EDIT DYNAMIPS FILE ON SERVER

Step → 1: Remote or login the remote PC and →Start → Run →type "C:\Program Files\GNS3\"
Find "dynamips-start.cmd" edit with your favorite editor;
Change line five where it says 7200 to 7221

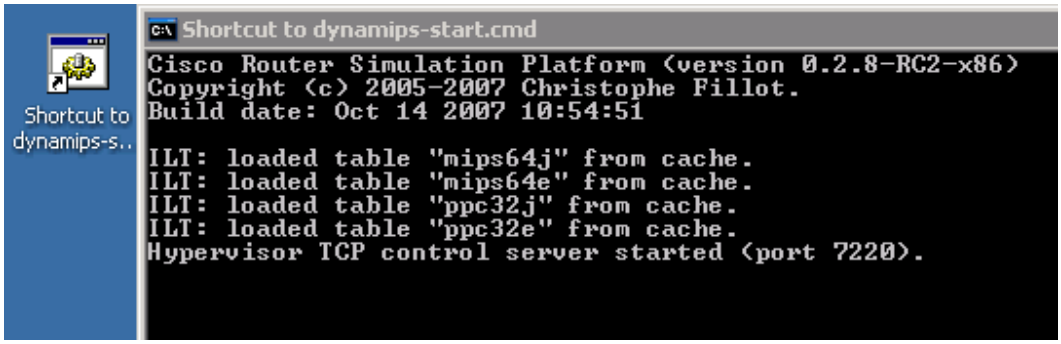


Recommend creating a shortcut for "dynamips-start.cmd" to on your desktop, because your going to use this quite frequently because everything stop the router, you need to shutdown and restart it ☹

PART 6: START DYNAMIPS ON SERVER AND CLIENT

Server:
Step → 1: Double on dynamips shortcut on the server's desktop;

Clients:
Step → 2: Double on dynamips shortcut on the remote PC's desktop;

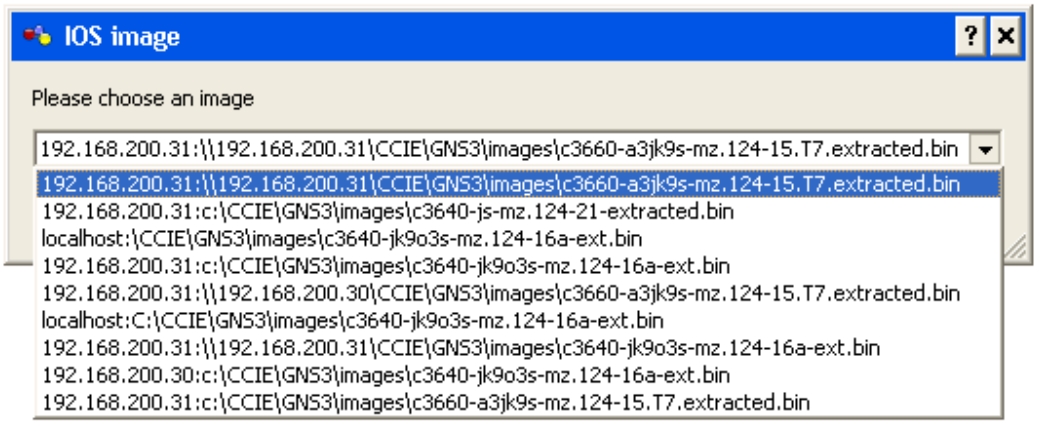


PART 7: START GNS3 ON THE SERVER AND CREATE SIMPLE TOPOLOGY

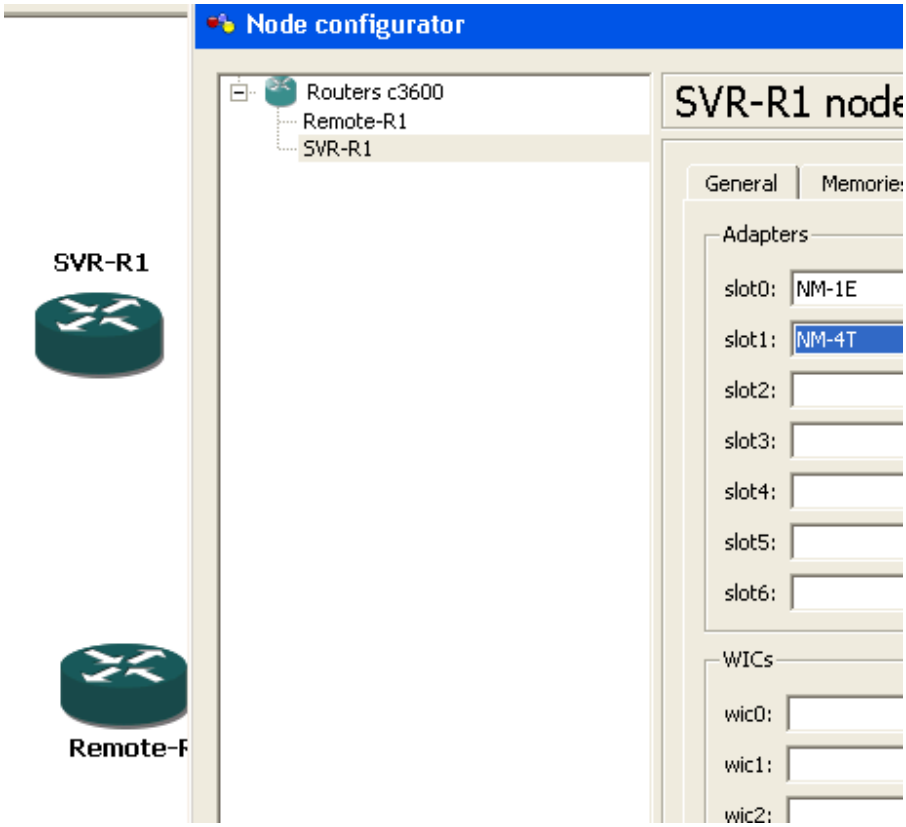
Step → 1: Start GNS3 on the Server;
Step → 2: Drag and drop router….
Step → 3: Select one router from Server and the other router from Remote as shown here…

Or sample.net

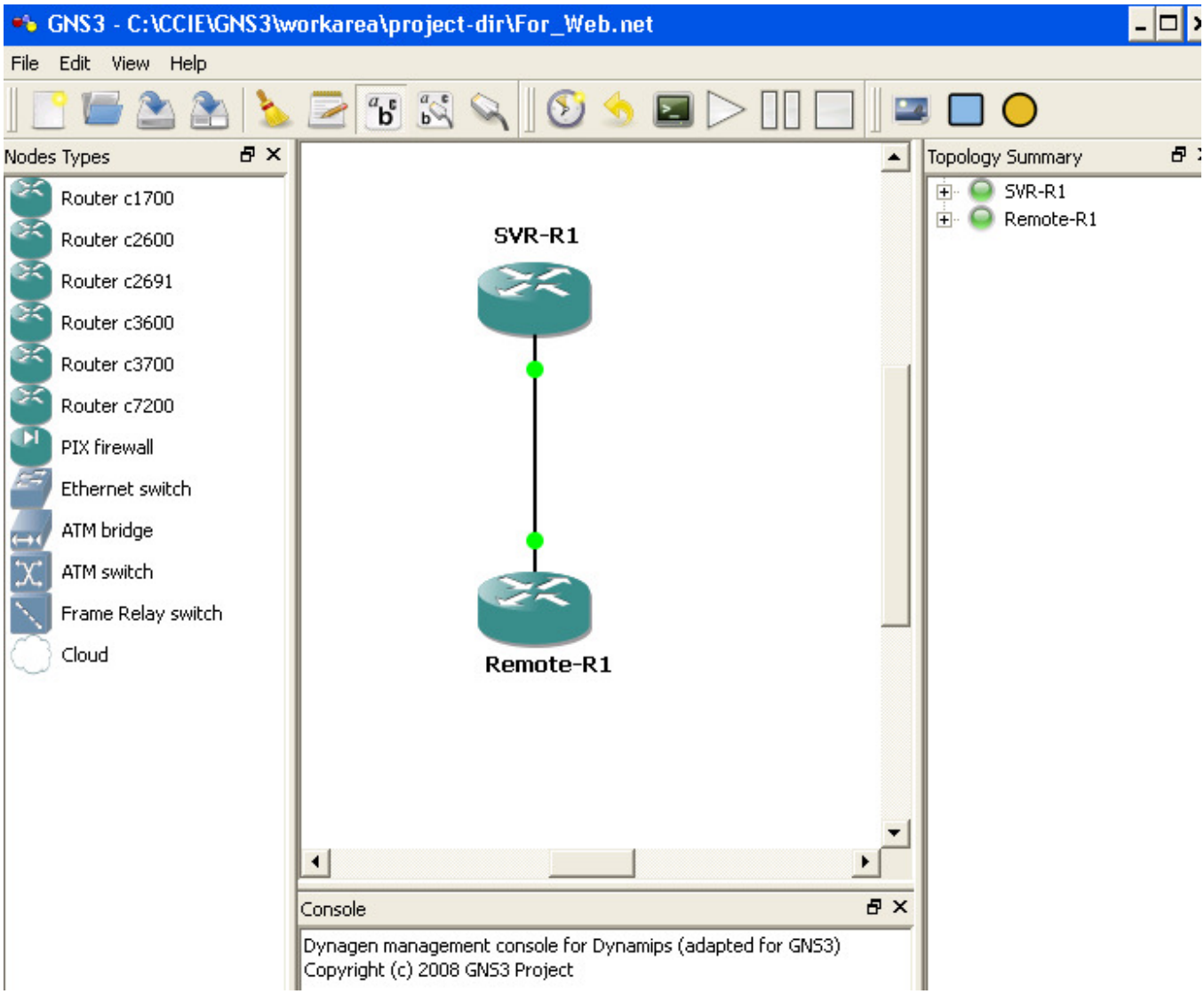
```
utostart = False
[192.168.200.30:7221]
 workingdir = C:\CCIE\GNS3\workarea\dynamip-work-dir
   udp = 10100
   [[3640]]
      image = c:\CCIE\GNS3\images\c3640-jk9o3s-mz.124-16a-ext.bin
      idlepc = 0x6050a078
      chassis = 3640
   [[ROUTER SVR-R1]]
      model = 3640
      console = 2004
      slot0 = NM-4E
      e0/0 = Remote-R1 e0/0

[192.168.200.31:7220]
   workingdir = \\192.168.200.31\CCIE\GNS3\remote-work
   [[3640]]
      image = c:\CCIE\GNS3\images\c3640-js-mz.124-21-extracted.bin
      idlepc = 0x60431368
      chassis = 3640
   [[ROUTER Remote-R1]]
      model = 3640
      console = 2003
      slot0 = NM-4E
      e0/0 = SVR-R1 e0/0
```



Step → 4: Highlight both the routers and select configure..

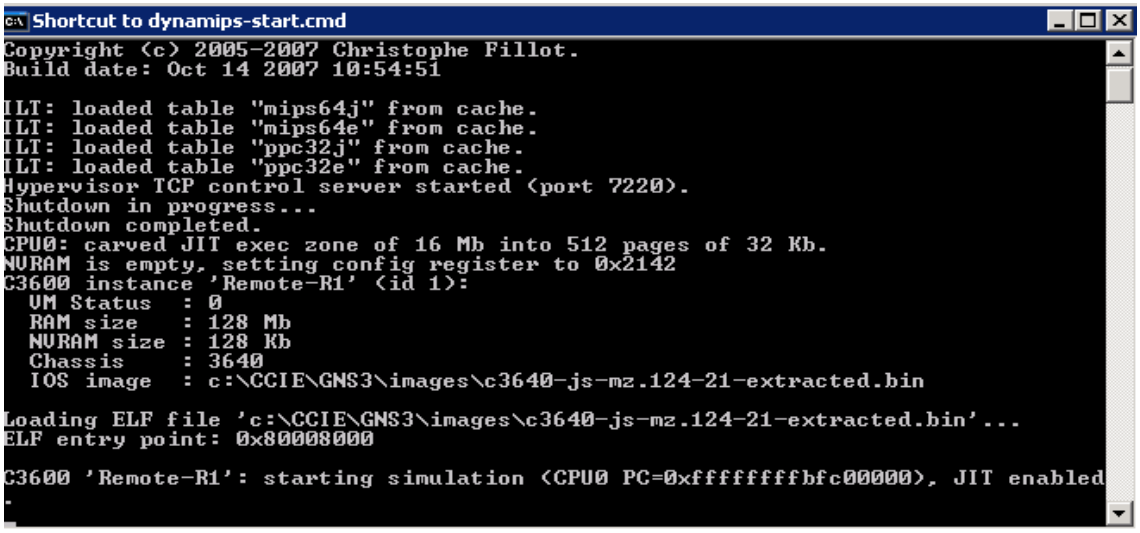


Step → 5: Connect them together using Ethernet interface and start…



Step → 6: Check your Local Dynamips status

Step → 7: Check your Remote Dynamips status;



SPECIAL THANKS to GNS3 TEAM!!!

Let me know if you have any suggestion or comments and good luck everybody!!!

I hope this is helpful

Oglumavd ☺

Oğlum AVD için; oglumavdicin@gmail.com