INTRODUCTION TO DYNAGEN AND DYNAMIPS

- Dynamips is a Cisco router emulator written by Christophe Fillot. It emulates 1700, 2600, 3600, 3700, and 7200 hardware platforms, and runs standard IOS images. In Chris' own words:

- *This kind of emulator would be useful to:*

- *Be used as a training platform, with software used in real world. It would allow people to become more familiar with Cisco devices, Cisco being the world leader in networking technologies ;*

- *Test and experiment features of Cisco IOS ;*

- *Check quickly configurations to be deployed later on real routers.*

INTRODUCTION TO DYNAGEN AND DYNAMIPS

- Dynagen is a text-based front end for Dynamips, which uses the "Hypervisor" mode for communication with Dynamips. Dynagen simplifies building and working with virtual networks:

- Uses a simple, easy to understand configuration file for specifying virtual router hardware configurations.

- Simple syntax for interconnecting routers, bridges, frame-relay and ATM, and Ethernet switches. No need to deal with NetIOs.

- Can work in a client / server mode, with Dynagen running on your workstation communicating with Dynamips running on a back-end server. Dynagen can also control multiple Dynamips servers simultaneously for distributing large virtual networks across several machines.Or you can run Dynamips and Dyngen on the same system .

- Provides a management CLI for listing devices, starting, stopping, reloading, suspending, resuming, and connecting to the consoles of virtual routers.

INTRODUCTION TO VPC

The VPCS can simulate up to 9 PCs. You can ping/traceroute them, or ping/traceroute the other hosts/routers from the virtual PCs when you study the Cisco routers in the Dynamips. VPCS is not the traditional PC, it is just a program running on the Linux or Windows, and only few network commands can be used in it. But VPCS can give you a big hand when you study the Cisco devices in the Dynamips. VPCS can replace the routers or VMware boxes which are used as PCs in the Dynamips network.

CREATING A SIMPLE NETWORK USING DYNAGEN