



叢集運算基本觀念

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Powered by DRBL



At First, We have $4 + 1$ PC Cluster

*It'd better be
2ⁿ*



*Manage
Scheduler*

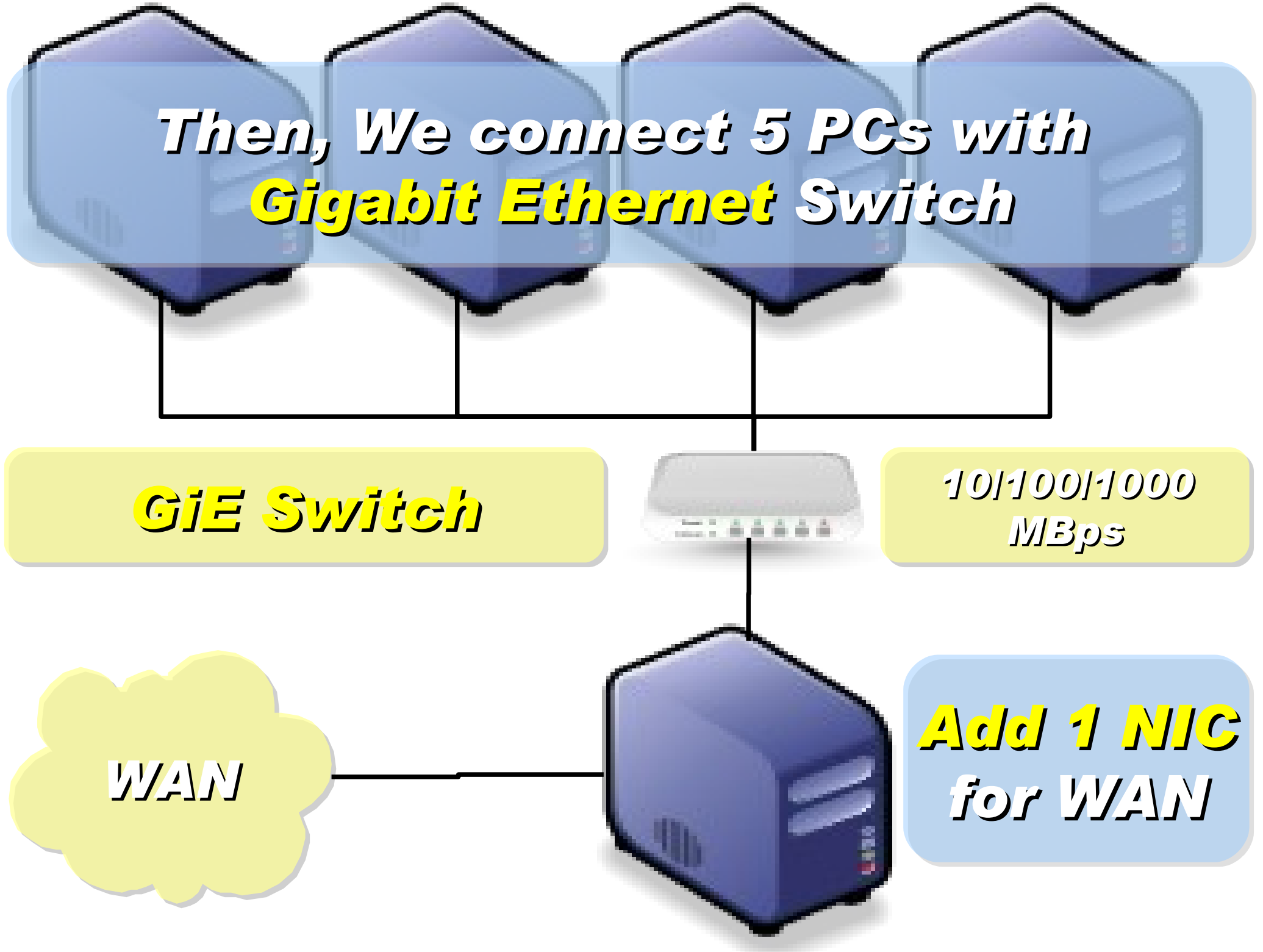
***Then, We connect 5 PCs with
Gigabit Ethernet Switch***

GiE Switch

***10/100/1000
Mbps***

WAN

***Add 1 NIC
for WAN***



Compute Nodes

4 Compute Nodes will communicate via LAN Switch. Only Manage Node have Internet Access for Security!

WAN

Manage Node



Compute Nodes

Basic System Setup for Cluster

Messaging

MPICH

GCC

Bash

Perl

Account Mgmt.

SSHD

NIS

YP

GNU Libc



Kernel Module

Linux Kernel

Boot Loader

On **Manage Node**,
We need to install **Scheduler** and
Network File System for sharing
Files with **Compute Node**

Job Mgmt.

OpenPBS

File Sharing

NFS

Extra

Messaging

MPICH

GCC

Bash

Perl

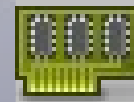
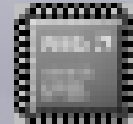
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Research topics about PC Cluster

