Ip-based network: client server router switch/wireless

Virtualization - hypervisor: VMware VMware ESX hyper-v Xenserver Xen

Operation System: FreeBSD macos solaris linux windows synology-xpenology

Xpenology installation important:

1.virtual disk type: sata (recommend)

2.xx.vmx   add   bios.bootOrder = "cdrom"

3.guest operation system version: other linux 2.6.x kernel 64-bit

3.default *root* password is the code typed when system initial

4.the organized type of data is *volume*

network adapt – network interface (more) : terminal router

In one broadcast domain:

network interface in same network segment – directly communicate

network interface in different network segment – communicate by router

forwarding procedure – forwarding table: *outside access IP:Port <-> inside resource IP:Port*

from outside to inside – IP:Port *IP:Port* -> IP:Port *IP:Port*

from inside to outside – IP:Port *IP:Port* <- IP:Port *IP:Port*

NAT – origin from inside

Port forwarding – origin from outside