What is this Virtual IP?

A virtual IP is an IP address that isn’t dependent on any physical interface. So that you can assign the same IP address to a lot of devices at the same time. Well, if you ask what is the advantage of this for us; here are some of these advantages:

* In Network Address Translation one-to-many / one-to-one NAT
* In fault-tolerance
* In mobility

NAT

Mapping a specific IP address to another specific IP address is usually called Destination NAT (DNAT). (You can consider the DNAT as reverse NAT.) When this central NAT table is not used, FortiOS calls this a Virtual IP address (VIP). DNAT, or VIP, is are used to map an external IP address to an IP address or address range.

Fault Tolerance

One the most used examples is HA (High Availability). As you know HA is a traditional redundancy method. So by assigning the same VIP and VID (virtual ID: is an ID that is the latest hex of a MAC addr) to multiple servers, by enabling the VRRP between them; you can enable the High Availability. Namely VRRP (Virtual Routing Redundancy Protocol) is used to communicate these multiple servers each other. There is a Master server and the rest are Backups. For example, Master says to the others such as: “Hey, I’m the master one! So now I am the owner of the VIP and VID! If any fault or issue occurs and I drop down, then I’ll inform you as I dropped and the new master will be one of you.”

So when any fault (server dropped down) happened, you can tolerate the process with HA and VIP easily!

Mobility

Mobility here means Partnership and Coparcenary! So, it is to assign the same IP addr to multiple devices!

What is a mobility server and client?

Mobility servers that connect to the same Mobility warehouse function as a server pool, sharing users, devices, and all configuration information. Mobility supports multiple Mobility servers deployed in a server pool, sharing central configuration and management.