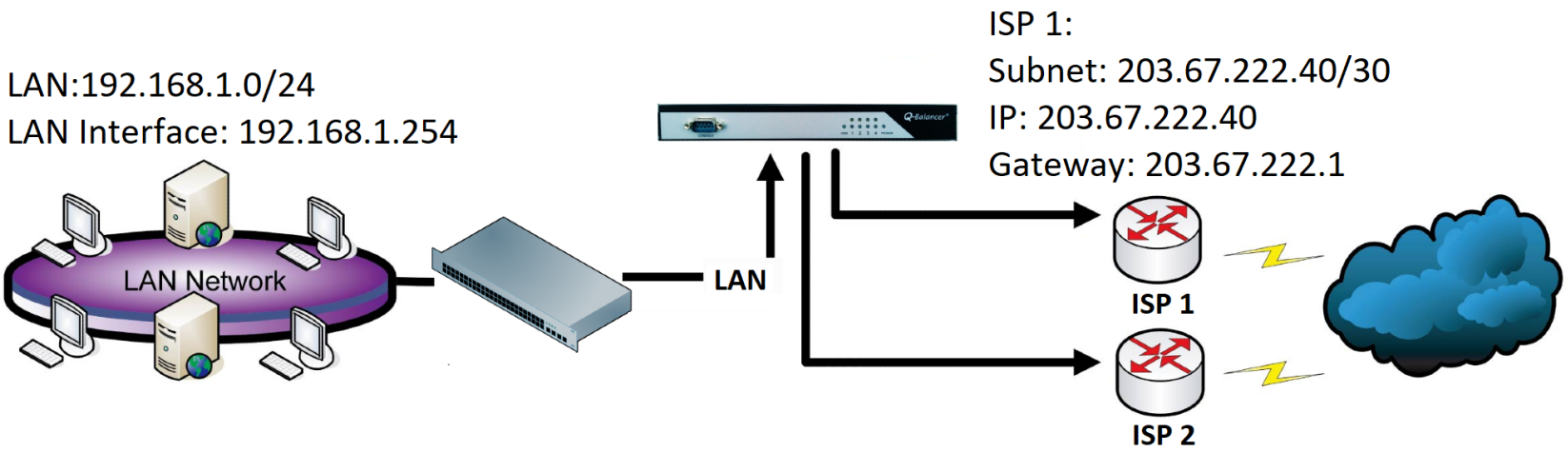
How To Guide:

VRRP High Availability

Introduction

This article outlines general procedures for configuring VRRP High Availability.

Diagram Example



For your reference, the following are the existing network setting in the boot configuration file on the primary Q-Balancer appliance:

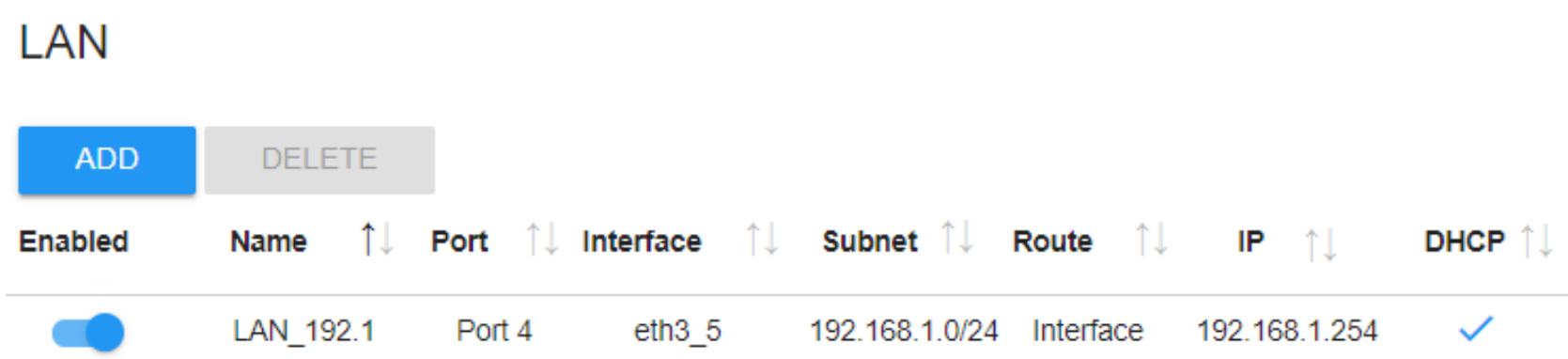
WAN configuration is done as follows:

WAN

ADD DELETE

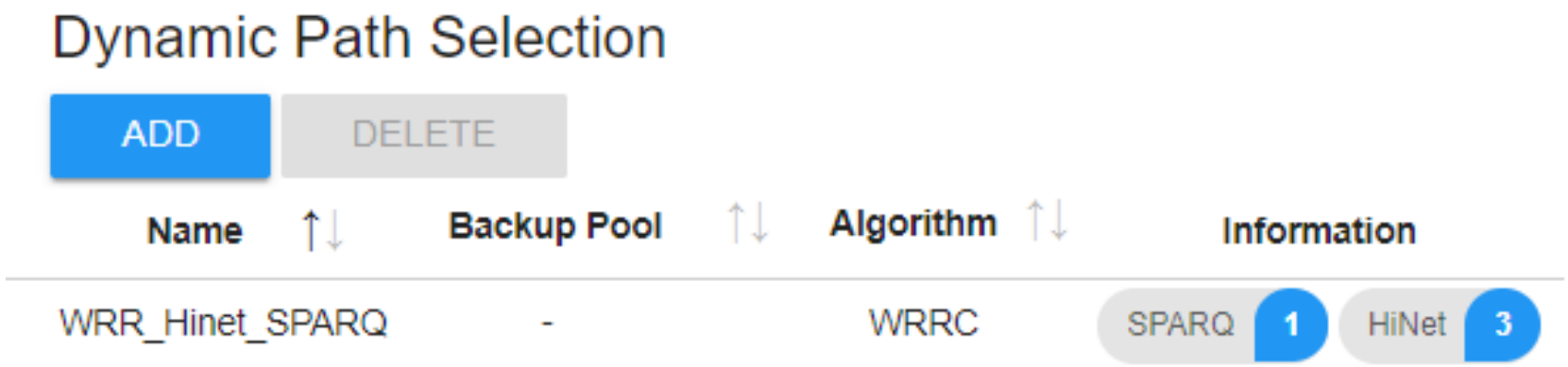
Enabled	Status	Type	Name	Port	Interface	Subnet	IP	Gateway
✓	✓	Static	SPARQ	Port 1	eth0_1	203.67.222.40/30	203.67.222.40	203.67.222.1
✓	✓	PPPoE	HiNet	Port 2	ppp1	122.116.63.225/32	122.116.63.225	168.95.98.254

LAN configuration is done as follows:



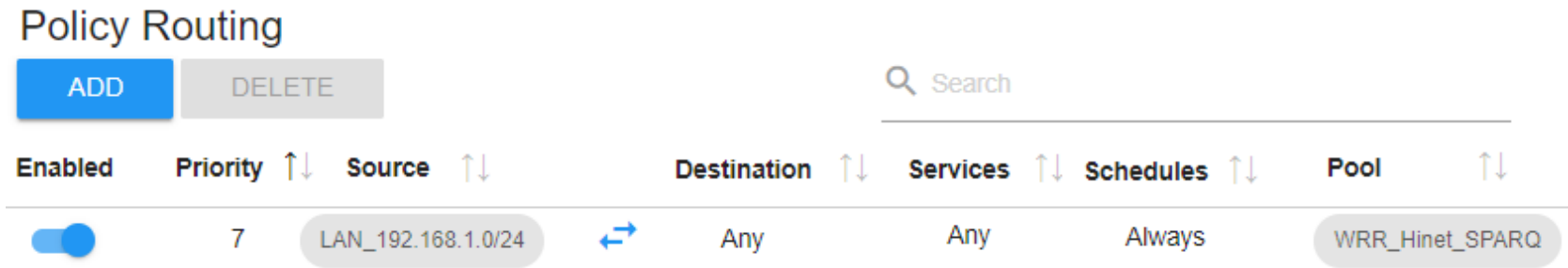
Objects > DPS

The ***DPS*** is configured as follows:



Policy Routing

The ***Policy Routing*** is configured as follows:



Requirement

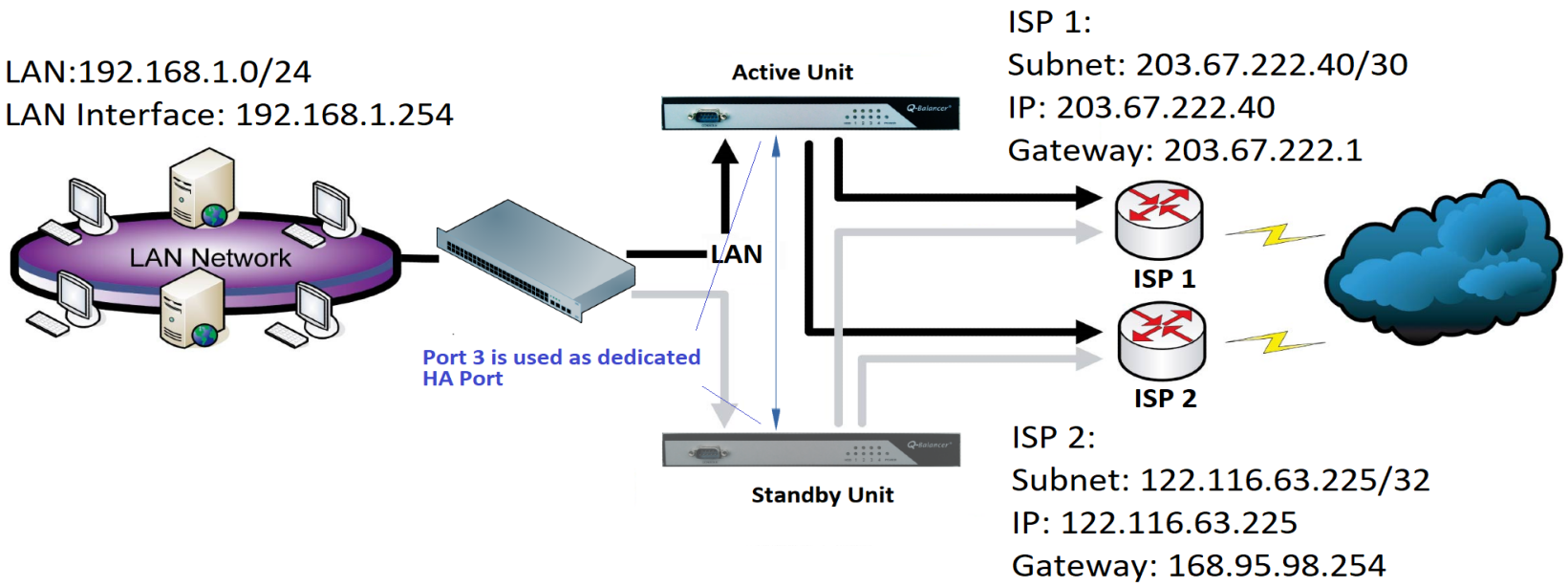
To prevent single point of failure caused by the Q-Balancer appliance itself, now the network configuration is requested to:

1. Protect network continuity from unplanned outages by human error, software problems, hardware failures, and environmental issues.

2. Reduce the impact whenever systems offline is needed for necessary maintenance tasks.

Solution: VRRP High Availability

The following is a HA network diagram to be proposed:

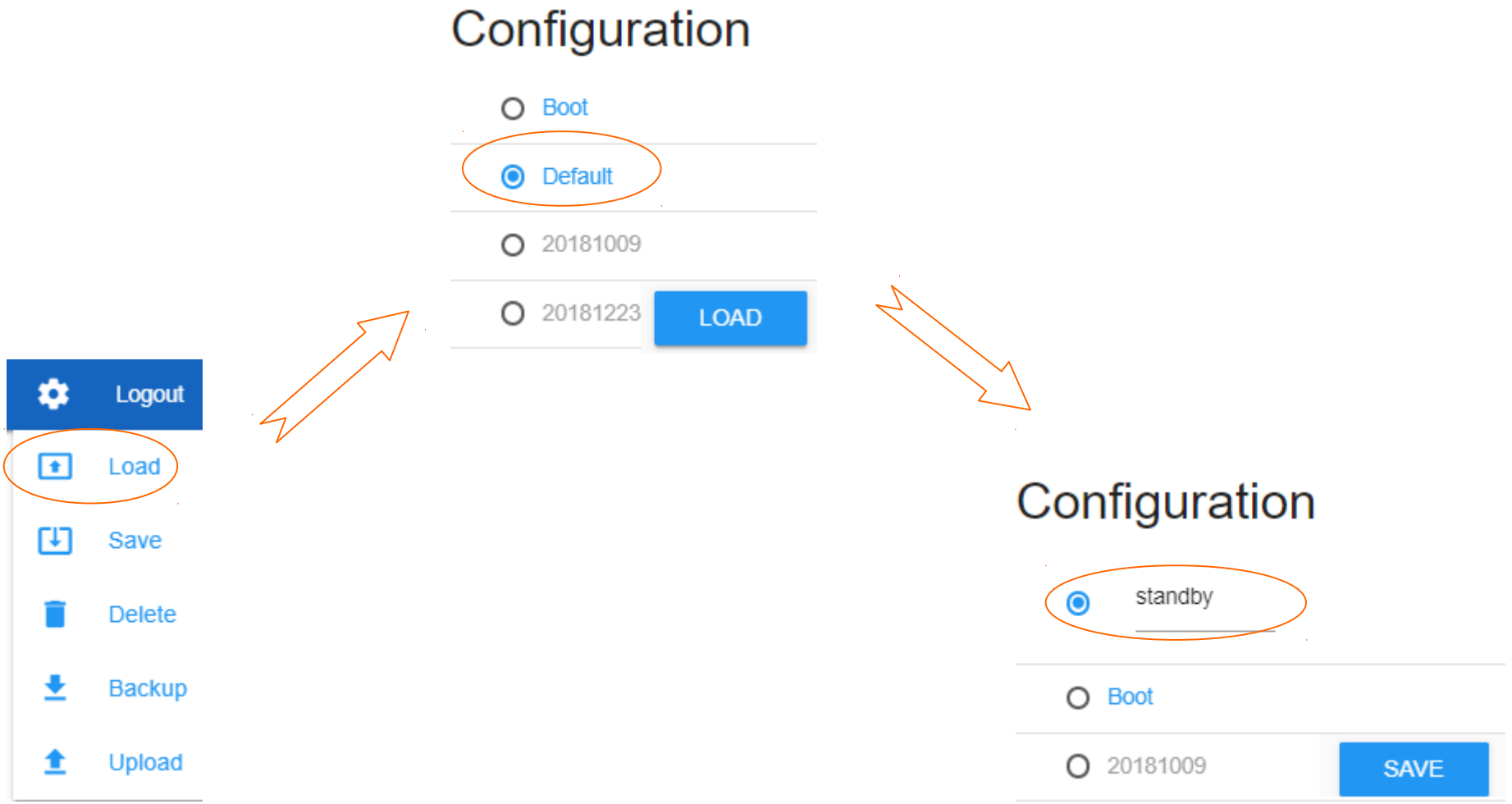


In Q-Balancer HA, there are Primary and Secondary appliances. To configure HA, you can either start with Primary or Secondary appliance. Based on the existing configuration, follow the steps below to configure the Secondary appliance:

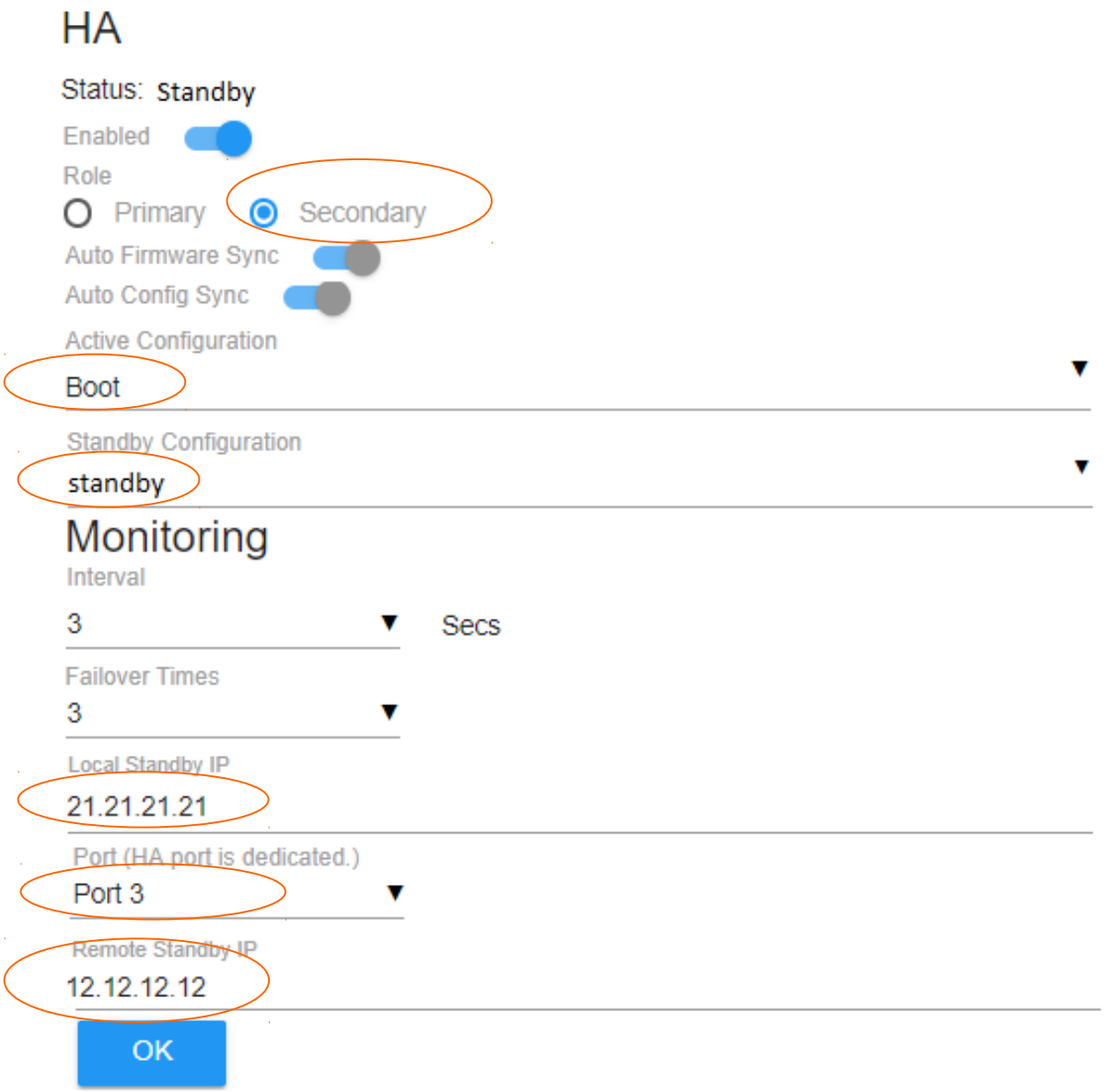
1. *Create a configuration file for **standby***
2. *Complete the **HA** setting*
3. Apply the ***Active*** Configuration to the ***Secondary*** appliance

Create a configuration file for standby

In this case, we will just create configuration files by loading ***default*** configuration and saving it as ***standby***



Complete the HA setting



Apply the Active Configuration to the Secondary appliance

Apply the configuration by clicking the icon  .

As shown previously, ***WAN/LAN/DPS/Policy Routing*** have been configured on the Primary appliance, and therefore we will only need to complete the ***HA*** configuration as follows:

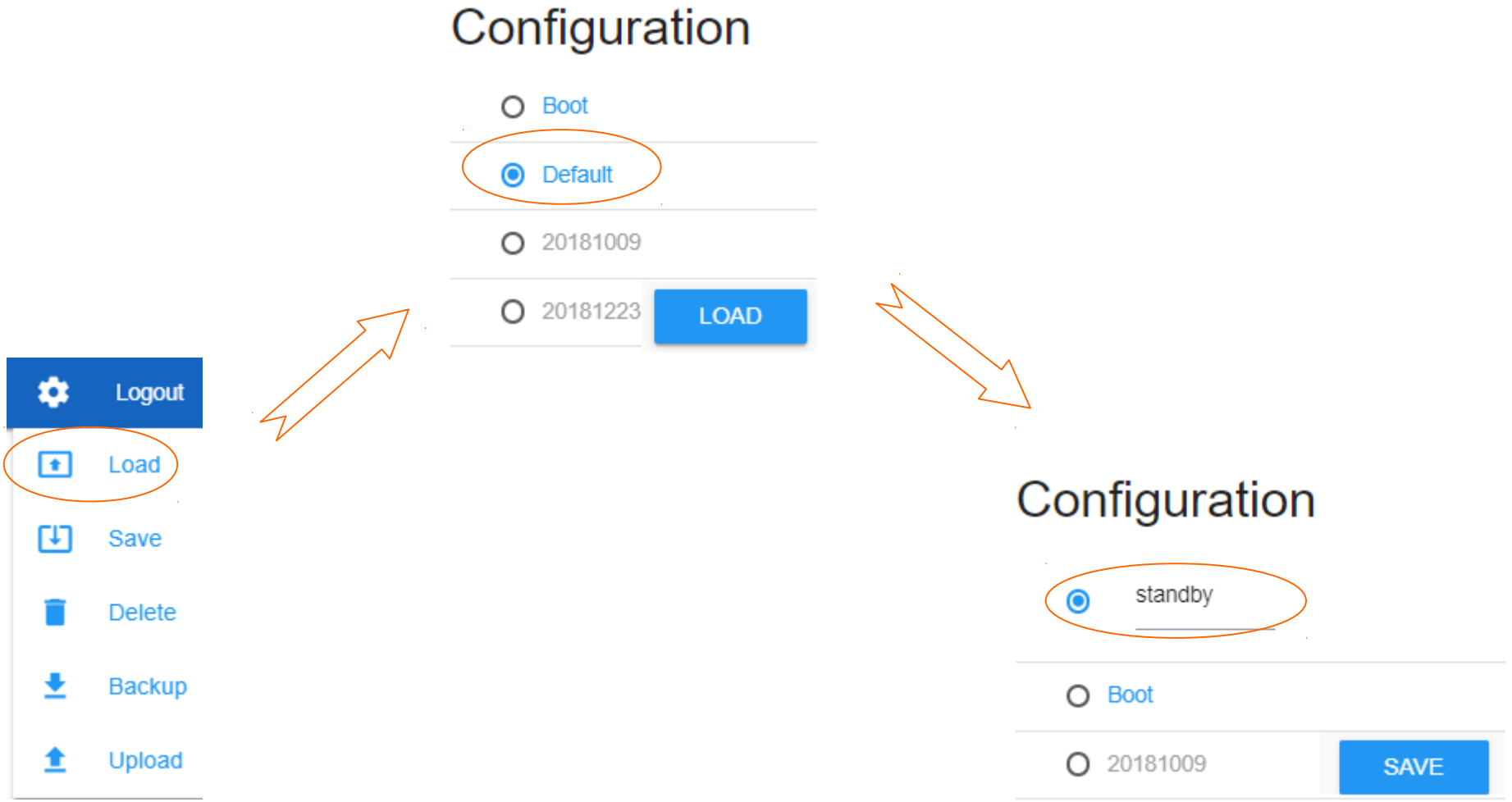
*1. Create a configuration file for **standby***

*2. Complete the **HA** setting*

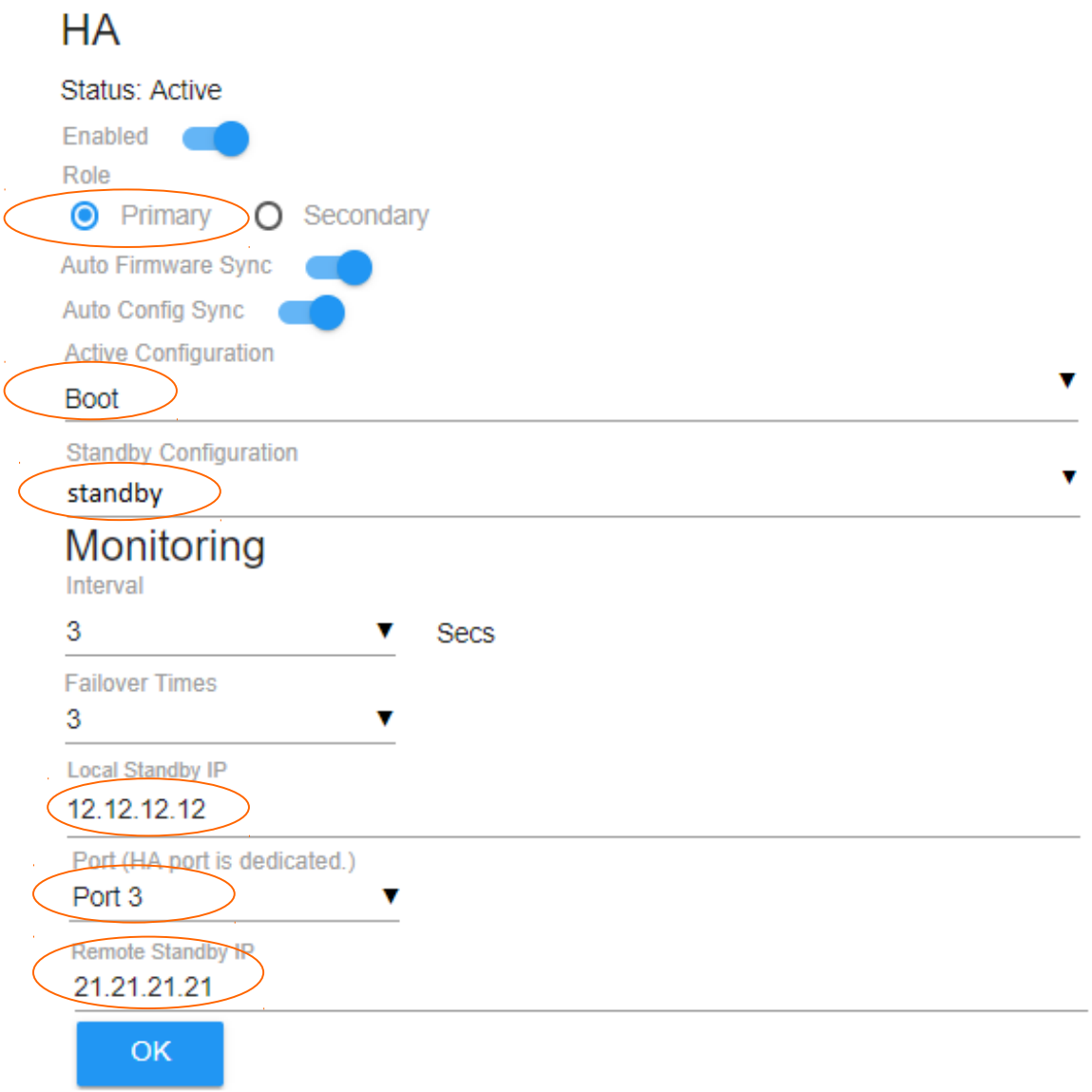
*3. Manually Synchronize **Active Configuration** to the **Secondary** appliance by deliberately saving it again.*

Create a configuration file for standby

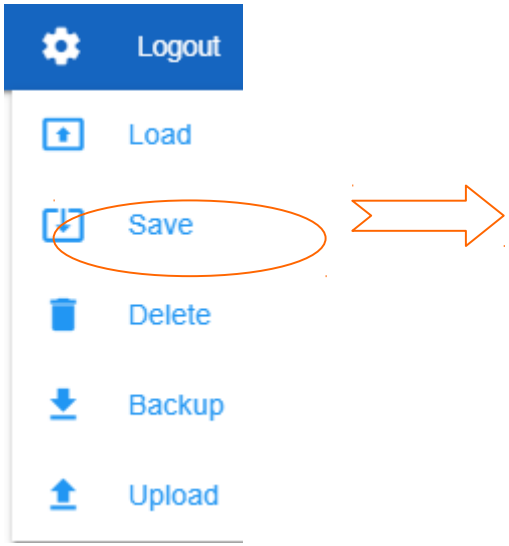
we will just create configuration files by loading ***default*** configuration and saving it as ***standby***

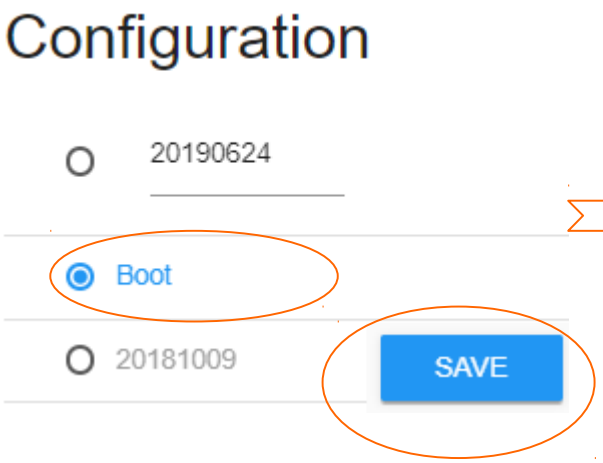


Complete the HA setting



Synchronize Active Configuration from Primary to the Secondary appliance





Apply the configuration.

Note: To get HA setting take effect, you may optionally reboot the ***Primary*** and ***Secondary*** appliances and ignore this step.

Done!

Power off the ***Primary*** appliance and check if LAN hosts can access the Internet.