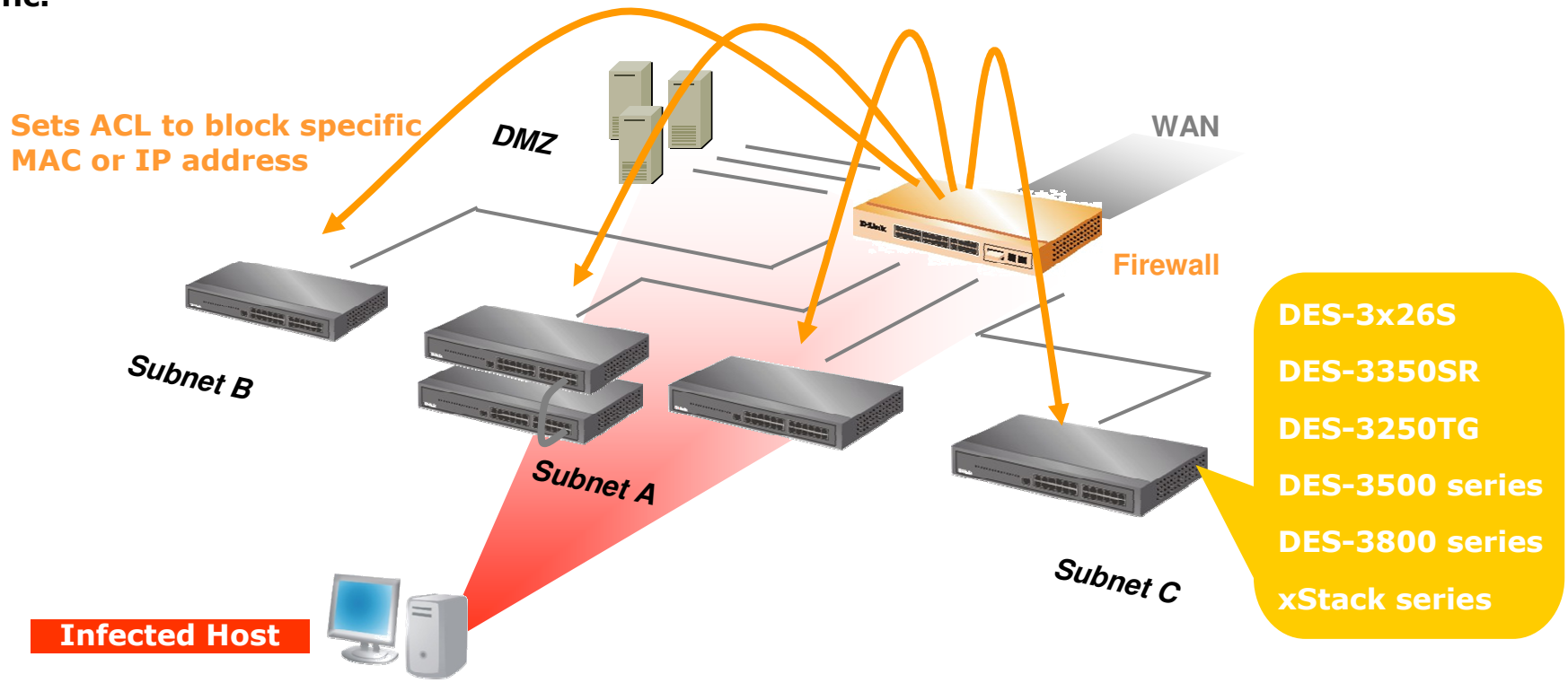
ZoneDefense

Setup Examples

ZoneDefense

- If there's an infected host spreading worm into the network.
- Firewall can stop the malicious traffic flooding to other subnets but have no way to stop it infecting its network [Subnet A].
- The most effective solution will be: Firewall triggers the ACL in LAN switches to perform real time filtering on any malicious traffic.

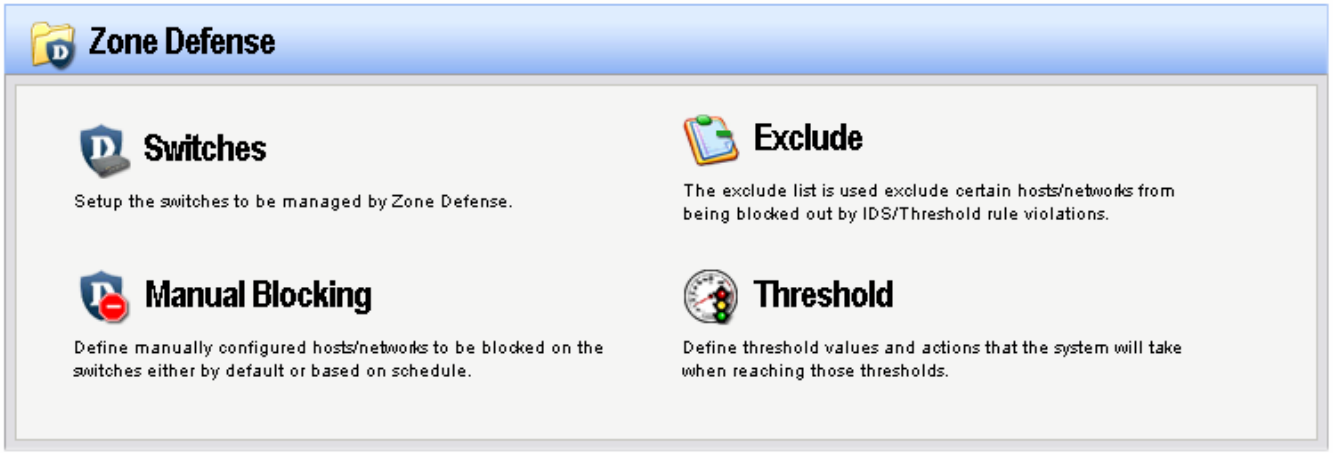
D-Link Firewalls implement ZoneDefense feature to perform proactive network security with D-Link switches



Setup Examples

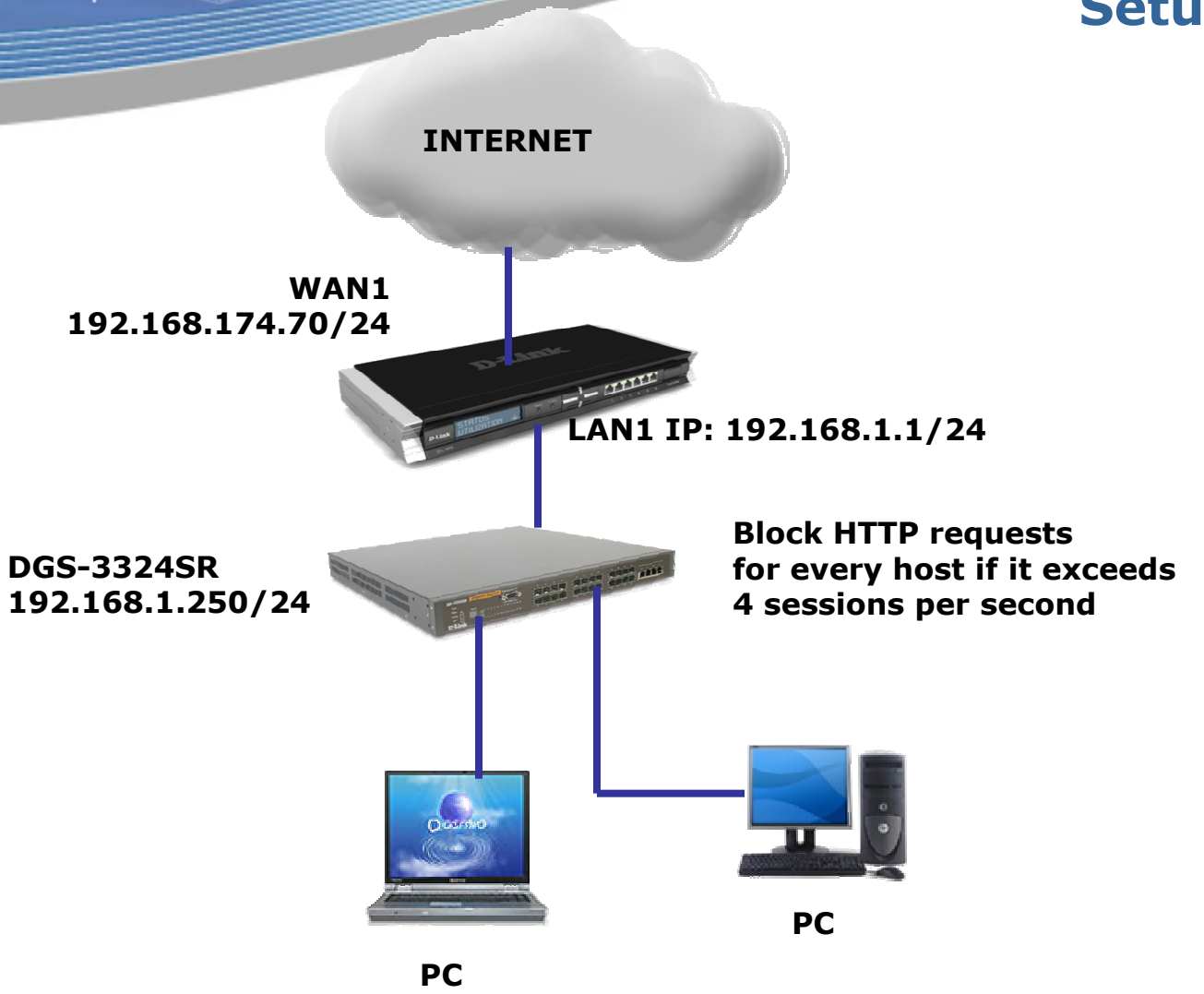
ZoneDefense

- **ZoneDefense is a proprietary solution from D-Link. It operates with D-Link switches to isolate infected hosts that are generating unusual traffic on LAN.**
- **It uses Threshold rules to examine connections through the firewall and take actions upon them. The threshold rules monitor the number of connections per second.**
- **When a pre-defined limit is reached, the firewall sends block requests to the switches configured for ZoneDefense.**



Setup Examples

ZoneDefense



Setting up ZoneDefence in the firewall to control the ACL in a ZoneDefence aware switch.

Configuration Steps:

- **Configure the switch.**
- **Exclude the switch and Administrator's PC.**
- **Create and configure the Threshold rules.**

Setup Examples

ZoneDefense

```
DGS-3324SRi:4#show snmp community
Command: show snmp community

SNMP Community Table
Community Name                  View Name                       Access Right

------------------------------  ------------------------------  ------------

private                         CommunityView                   read_write
public                          CommunityView                   read_only
```

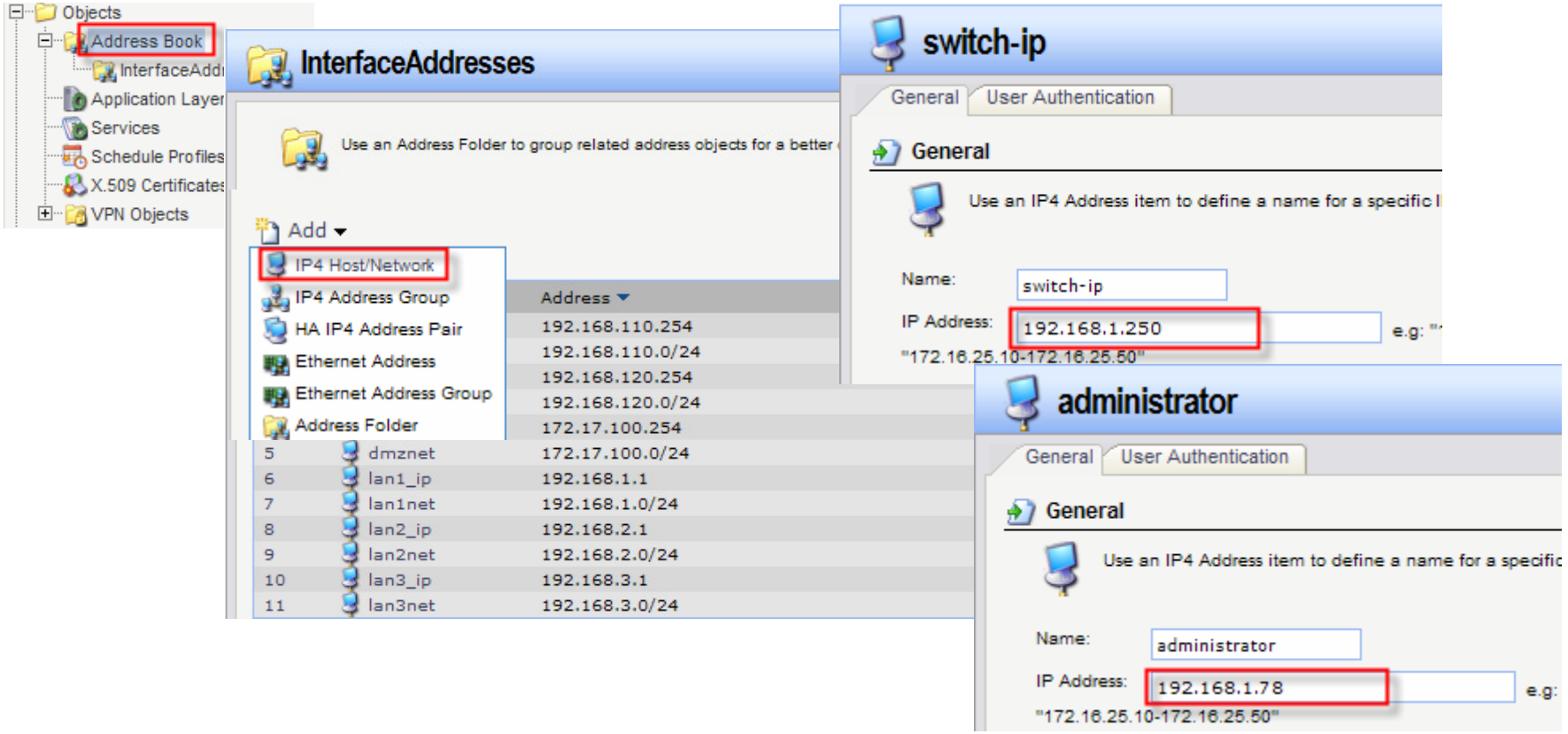
Verify communication between the firewall and the switch.

Check the SNMP community in the switch.

Command: "show snmp community"

Setup Examples

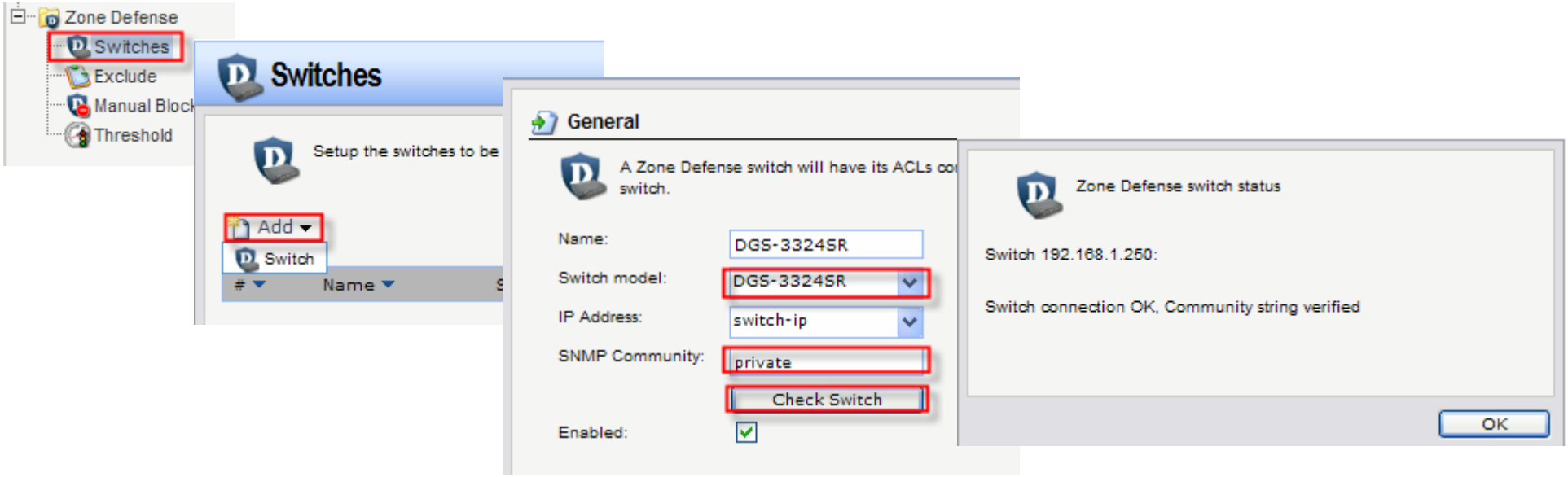
ZoneDefense



Go to Objects > Address Book > Interface Addresses.
Create two new objects for the switch and for the administrator's PC.

Setup Examples

ZoneDefense



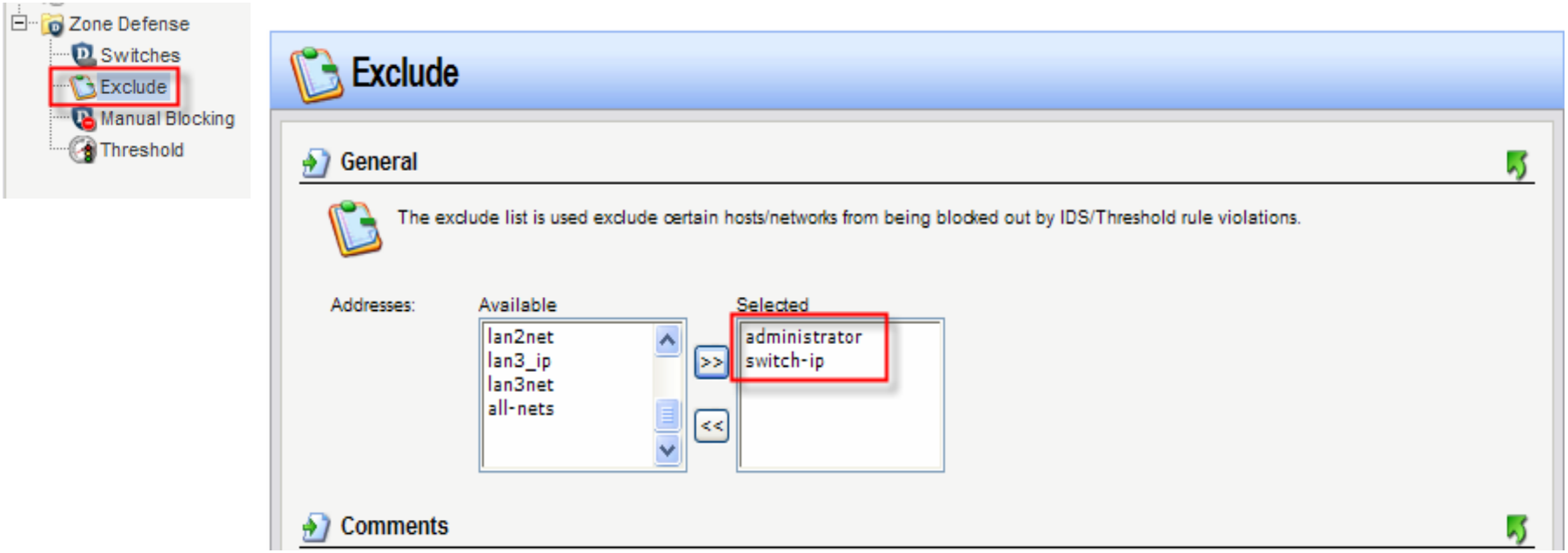
Go to Zone Defense > Switches.

Add a new switch and specify the model of the switch.

Set the correct SNMP community string. Check connectivity with the switch.

Setup Examples

ZoneDefense



Go to Zone Defense > Exclude.

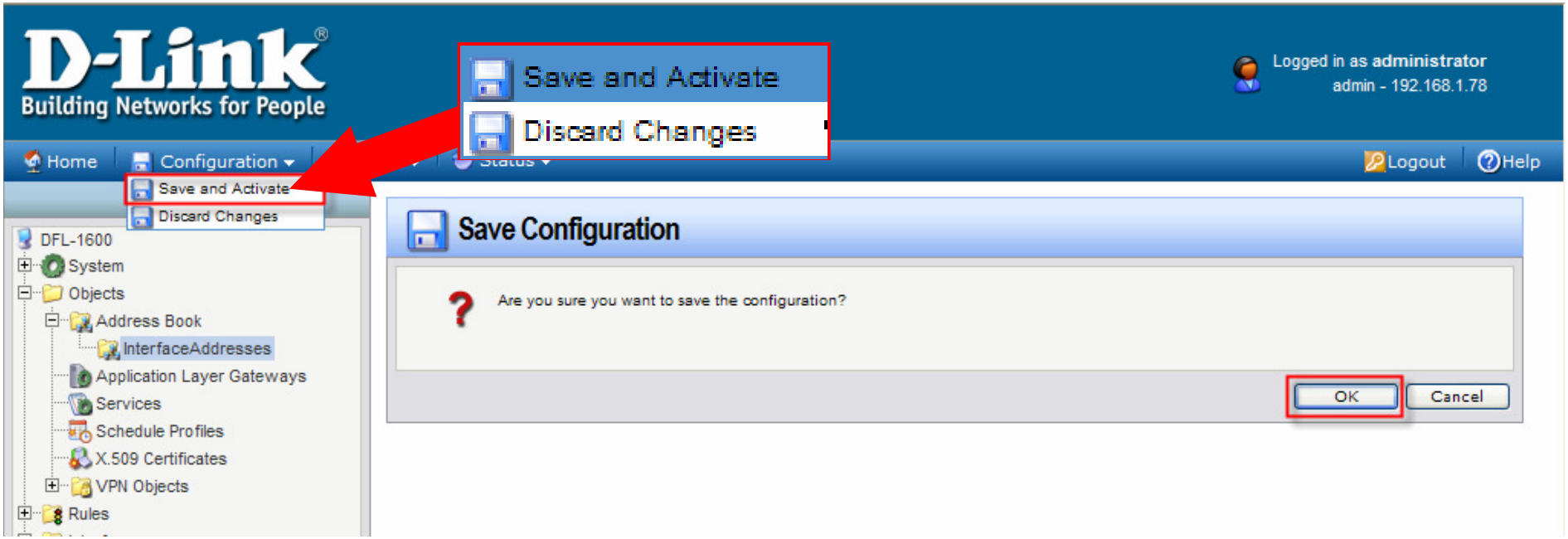
Add a new entry and select the Switch IP and the Administrator's PC IP.

Setup Examples

ZoneDefense

Go to Traffic Management > Threshold Rules. Create a new threshold rule. Select the required service and interfaces then click OK button.

Create a threshold action required. Set the desired threshold (connections per second). Enable Use ZoneDefense and click OK button.



Save and Activate the new configuration.

Firewall ZoneDefense status: