

Howto add IP aliases on ppp0 in IPfire

Let's say you have a /29 network on your DSL subscriber (dial) line: 212.218.10.64/29.

In that case you could use six ip addresses (65 to 70) as public addresses for machines or services behind your firewall.

According to this [thread](#) and this [thread](#) it is not possible. But it *is* possible - and i will show you how.

1.) Enable SSH access in ipfire and connect to ipfire as root.

2.) Add the following lines to the file /var/ipfire/ethernet/aliases:

[snippet.bash](#)

```
212.218.10.65, on, RED2
212.218.10.66, on, RED3
212.218.10.67, on, RED4
212.218.10.68, on, RED5
212.218.10.69, on, RED6
212.218.10.70, on, RED7
```

3.) Create a new file (this will configure your ip addresses)

/etc/rc.d/init.d/networking/red.up/02-aliases:

[snippet.bash](#)

```
ip addr add 212.218.10.65/29 dev ppp0
ip addr add 212.218.10.66/29 dev ppp0
ip addr add 212.218.10.67/29 dev ppp0
ip addr add 212.218.10.68/29 dev ppp0
ip addr add 212.218.10.69/29 dev ppp0
ip addr add 212.218.10.70/29 dev ppp0
ip addr show ppp0
```

4.) Make it executable!

[snippet.bash](#)

```
chmod 0755 /etc/rc.d/init.d/networking/red.up/02-aliases
```

5.) Restart your Internet connection

READY.

- The new ip addresses will be automatically configured every time the firewall reconnects or reboots.
- You will see the addresses in the ipfire menu → network → aliases
- You can use the new addresses in the firewall config - they will appear as RED2 - RED7
- The warning “Aliases will not be active unless your RED interface is STATIC” can be safely ignored from now on

Have fun 😊

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