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Custom Subnet Size

Jem Camba - 2019-03-06 - in Networking

When you provision a new server, Packet assigns the following public IPv4 address blocks depending on the official Operating System you select:

- **Linux Distros** - /31
- **Windows Server 2012 r2** - /30
- **VMware ESXI** - /29

This configuration works great in most use cases. However, sometimes you need more IPs by default.

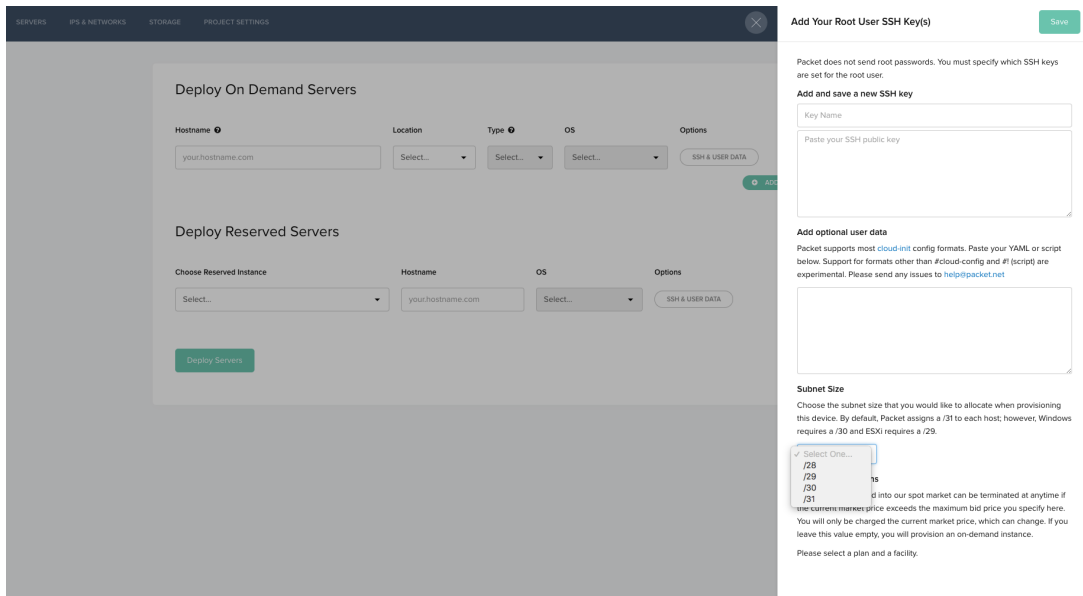
While you can certainly leverage Packet's [Elastic IP functionality](#) to request a larger block of IPs and tap into them as needed, in many cases requesting a larger block size per server is the easiest way to go.

To support this, Packet allows you to request various subnet sizes when you deploy a new server:

- **/31** (2 IPv4 address)
- **/30** (4 IPv4 addresses)
- **/29** (8 IPv4 addresses)
- **/28** (16 IPv4 addresses)

Usage

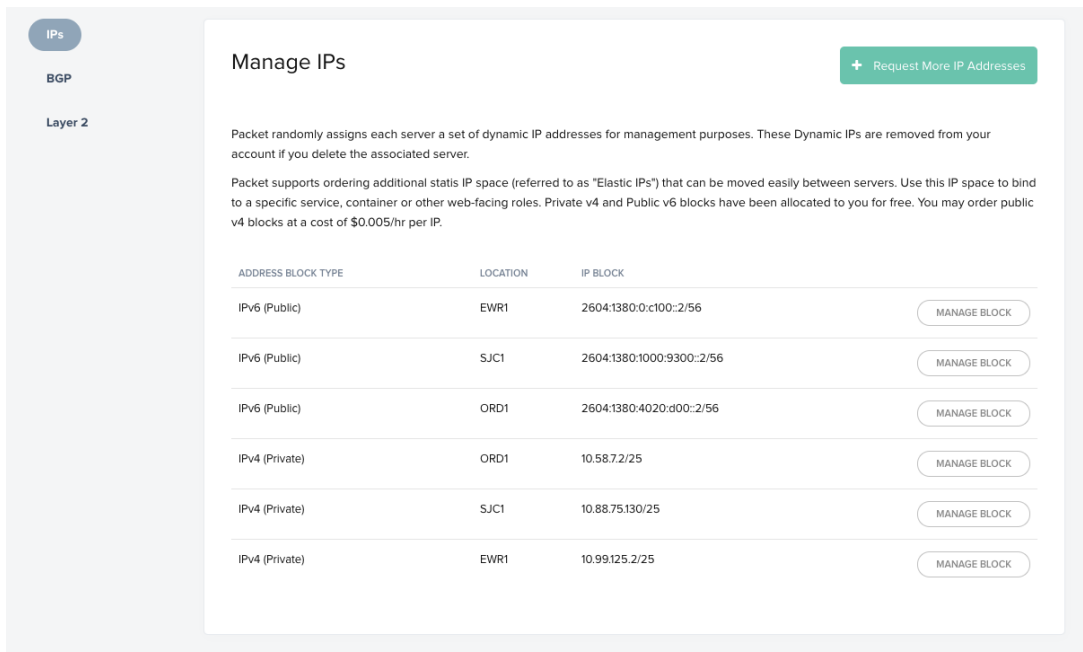
- **Portal** - From the Packet portal, you can select a custom subnet size as an additional option under *Manage*.



- **API** - If you are using the API, you can use the parameter `public_ipv4_subnet_size` which will accept an integer of the CIDR notation. Here is an example:

```
curl -X POST -H "Content-Type: application/json" -H "X-Auth-Token: token"
"https://api.packet.net/projects/project_UUID/devices" -d '{"hostname": "custom",
"plan": "baremetal_1", "billing_cycle": "hourly", "facility": "ewr1", "operating_system":
"ubuntu_16_04", "public_ipv4_subnet_size": 29}'
```

After provisioning the server with the API call, you will find the `/29` subnet on the server detail page.



Billing

Please note that anything over a single IPv4 per server is billable at a rate of \$0.005/hr (equal to about \$3.60 per month per IP).

So if you request a /28, which gives you 16 IPs, you will be paying for 14 additional IPs on top of the included .

Tags

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