

Open Infrastructure - Task #6998

Install & Setup netbox on an IPv6 only VM and find out how to get / reserve the next free ip address

07/25/2019 06:19 AM - Ahmed Bilal

Status:	Closed	Start date:	07/25/2019
Priority:	Normal	Due date:	
Assignee:	Nico Schottelius	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			
PM Check date:			
Description			
Checkout whether getting "the next free IP address" works nicely via API for IPv6 and IPv4 If yes, we can use netbox as an IPAM backend			
Related issues:			
Related to Open Infrastructure - Task #7129: Turn the netbox installation int...		Closed	09/10/2019 09/15/2019

History

#1 - 07/27/2019 07:04 PM - Ahmed Bilal

- Status changed from Seen to Feedback
- Assignee changed from Ahmed Bilal to Nico Schottelius

Installed at <http://netbox-dev.ungleich.ch/>

#2 - 08/30/2019 12:10 PM - Nico Schottelius

- Subject changed from Install & Setup netbox on an IPv6 only VM to Install & Setup netbox on an IPv6 only VM and find out how to get / reserve the next free ip address
- Status changed from Feedback to Seen
- Assignee changed from Nico Schottelius to Ahmed Bilal

ping. please create a proof of concept for getting the next free ip address of a network via the API. Test it for IPv6 and IPv4. Document the commands used.

#3 - 08/30/2019 12:14 PM - Ahmed Bilal

Nico Schottelius wrote:

ping. please create a proof of concept for getting the next free ip address of a network via the API. Test it for IPv6 and IPv4. Document the commands used.

OK.

#4 - 08/31/2019 07:53 PM - Ahmed Bilal

- Status changed from Seen to Feedback
- Assignee changed from Ahmed Bilal to Nico Schottelius

For credentials, see channel org-ahmedbilal

I created a prefix 2a0a:e5c1:144:1::/64 using netbox web interface. It can be seen at <http://netbox-dev.ungleich.ch/ipam/prefixes/1/> then use netbox's official Python library pynetbox to get and consume next free ip

```
import pynetbox

# Create connection
nb = pynetbox.api('http://netbox-dev.ungleich.ch/',
                 token='6042908243ca4b3cb81040064165eb187af48b6f')

# Get prefix of which we want to get
# next free ip address of
```

```
prefix = nb.ipam.prefixes.get(1)

# Get free IP
free_ip = prefix.available_ips.list()[0]
print("Free IP", free_ip)

# Consume or Mark that IP as used
prefix.available_ips.create(data={"address": free_ip["address"]})

print("Free IP after using last", prefix.available_ips.list()[0])
```

Output:

```
Free IP {'family': 6, 'address': '2a0a:e5c1:144:1::/64', 'vrf': None}
Free IP after using last {'family': 6, 'address': '2a0a:e5c1:144:1::1/64', 'vrf': None}
```

#5 - 09/10/2019 05:27 PM - Nico Schottelius

- *Related to Task #7129: Turn the netbox installation into a production setup added*

#6 - 09/28/2019 04:34 PM - Ahmed Bilal

Related task is also complete.

#7 - 10/14/2019 12:45 PM - Il nu

- *Status changed from Feedback to Closed*