

## Open Infrastructure - Task #7496

### Create 2 new IPv6 only unbound based resolving DNS servers providing DNS64

12/17/2019 12:00 PM - Nico Schottelius

<b>Status:</b>	Closed	<b>Start date:</b>	12/17/2019
<b>Priority:</b>	High	<b>Due date:</b>	
<b>Assignee:</b>	Timothée Floure	<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			
<b>PM Check date:</b>			

#### Description

### Background

We want VPN users or anyone to be able to select if they get NAT64 or not. Currently our bind decides based on the query source IP, whether to provide NAT64 or not and which prefix to use.

We want to have an alternative to that: DNS servers that **always** respond with NAT64 replies. So users can decide on their own if they want NAT64 or not.

### Details

- 2 VMs in place6
  - names: unbound1.place6.ungleich.ch, unbound2.place6.ungleich.ch
- OS: Alpine
- fully cdist configured
  - create a new type \_\_ungleich\_unbound that accepts as parameter:
    - upstream dns servers
    - dns64 prefix
- Use the DNS64 prefix from place6
- Configure unbound to lookup names via 2a0a:e5c0:2:1::5 and 2a0a:e5c0:2:1::6
  - Because unbound is IPv6 only, it is not able to query IPv4 only domains

### documentation

- After it has been implemented and verified by Balazs, please update the documentation on [The\\_ungleich\\_DNS\\_infrastructure](#)

#### Related issues:

Blocks Open Infrastructure - Task #7560: Document DNS64 setup for VMs	Closed	01/03/2020	01/17/2020
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#### History

#1 - 12/19/2019 11:25 AM - Nico Schottelius

- Priority changed from Normal to High

#2 - 12/19/2019 05:11 PM - Timothée Floure

- Status changed from New to In Progress

#3 - 01/02/2020 05:09 PM - Timothée Floure

Merge request opened against dot-cdist: [https://code.ungleich.ch/ungleich-intern/dot-cdist/merge\\_requests/65](https://code.ungleich.ch/ungleich-intern/dot-cdist/merge_requests/65)

#4 - 01/03/2020 04:08 PM - Nico Schottelius

- Blocks Task #7560: Document DNS64 setup for VMs added

#5 - 01/18/2020 07:39 PM - Timothée Floure

It's deployed: there's just monitoring to setup before it can be closed.

#6 - 01/20/2020 12:05 PM - Timothée Floure

- Status changed from In Progress to Closed

Unbound DNS servers are now monitored by the prometheus blackbox exporter. Closing.