

Network Working Group  
Internet-Draft  
Expires: April 12, 2014

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ISC  
October 9, 2013

Add 100.64.0.0/10 prefixes to IPv4 Locally-Served DNS Zones Registry.  
draft-andrews-dnsop-rfc6598-rfc6303-03

## Abstract

[RFC6598](#) specified that: "Reverse DNS queries for Shared Address Space addresses [100.64.0.0/10] MUST NOT be forwarded to the global DNS infrastructure."

This document formally directs IANA to add the associated zones to the "IPv4 Locally-Served DNS Zones Registry" to prevent such queries accidentally leaking to the global DNS infrastructure.

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## 1. Introduction

[RFC6598] specified that: "Reverse DNS queries for Shared Address Space addresses [100.64.0.0/10] MUST NOT be forwarded to the global DNS infrastructure." [RFC6303] provides guidance on handling such queries.

This document directs the IANA to add the IPv4 reverse zones corresponding to 100.64.0.0/10, a netblock reserved in [RFC6598], to the IPv4 Locally-Served DNS Zone Registry established in [RFC6303].

Unlike [RFC1918] address, which are not expected to be seen by other parties, the addresses from [RFC6598] are expected to be seen by parties other than those deploying the addresses, so it is more crucial that recursive nameservers default to serving these zones locally.

## 2. Changes to IPv4 Locally-Served DNS Zones Registry

To add the following zone listed in RFC6598 Zones ([Section 2.1](#)) to the "IPv4 Locally-Served DNS Zone Registry".

### 2.1. RFC6598 Zones

```
64.100.IN-ADDR.ARPA
65.100.IN-ADDR.ARPA
66.100.IN-ADDR.ARPA
67.100.IN-ADDR.ARPA
68.100.IN-ADDR.ARPA
69.100.IN-ADDR.ARPA
70.100.IN-ADDR.ARPA
71.100.IN-ADDR.ARPA
72.100.IN-ADDR.ARPA
73.100.IN-ADDR.ARPA
74.100.IN-ADDR.ARPA
```

75.100.IN-ADDR.ARPA  
76.100.IN-ADDR.ARPA  
77.100.IN-ADDR.ARPA  
78.100.IN-ADDR.ARPA  
79.100.IN-ADDR.ARPA  
80.100.IN-ADDR.ARPA  
81.100.IN-ADDR.ARPA  
82.100.IN-ADDR.ARPA  
83.100.IN-ADDR.ARPA  
84.100.IN-ADDR.ARPA

85.100.IN-ADDR.ARPA  
86.100.IN-ADDR.ARPA  
87.100.IN-ADDR.ARPA  
88.100.IN-ADDR.ARPA  
89.100.IN-ADDR.ARPA  
90.100.IN-ADDR.ARPA  
91.100.IN-ADDR.ARPA  
92.100.IN-ADDR.ARPA  
93.100.IN-ADDR.ARPA  
94.100.IN-ADDR.ARPA  
95.100.IN-ADDR.ARPA  
96.100.IN-ADDR.ARPA  
97.100.IN-ADDR.ARPA  
98.100.IN-ADDR.ARPA  
99.100.IN-ADDR.ARPA  
100.100.IN-ADDR.ARPA  
101.100.IN-ADDR.ARPA  
102.100.IN-ADDR.ARPA  
103.100.IN-ADDR.ARPA  
104.100.IN-ADDR.ARPA  
105.100.IN-ADDR.ARPA  
106.100.IN-ADDR.ARPA  
107.100.IN-ADDR.ARPA  
108.100.IN-ADDR.ARPA  
109.100.IN-ADDR.ARPA  
110.100.IN-ADDR.ARPA  
111.100.IN-ADDR.ARPA  
112.100.IN-ADDR.ARPA  
113.100.IN-ADDR.ARPA

114.100.IN-ADDR.ARPA  
115.100.IN-ADDR.ARPA  
116.100.IN-ADDR.ARPA  
117.100.IN-ADDR.ARPA  
118.100.IN-ADDR.ARPA  
119.100.IN-ADDR.ARPA  
120.100.IN-ADDR.ARPA  
121.100.IN-ADDR.ARPA  
122.100.IN-ADDR.ARPA  
123.100.IN-ADDR.ARPA  
124.100.IN-ADDR.ARPA  
125.100.IN-ADDR.ARPA  
126.100.IN-ADDR.ARPA  
127.100.IN-ADDR.ARPA

### [3.](#) IANA Considerations

This document directs IANA to add the zones listed in [RFC6598](#) Zones

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([Section 2.1](#)) to the "IPv4 Locally-Served DNS Zone Registry".

### [4.](#) Security Considerations

This document is thought to present no additional security risks to the Internet.

### [5.](#) Acknowledgements

I would like to thank Joe Abley for his review comments.

### [6.](#) Normative References

- [RFC1918] Rekhter, Y., Moskowitz, B., Karrenberg, D., de Groot, G., and E. Lear, "Address Allocation for Private Internets", [RFC 1918](#), February 1996.
- [RFC6303] Andrews, M., "Locally Served DNS Zones", [BCP 163](#), [RFC 6303](#), July 2011.

[RFC6598] Weil, J., Kuarsingh, V., Donley, C., Liljenstolpe, C., and M. Azinger, "IANA-Reserved IPv4 Prefix for Shared Address Space", [BCP 153](#), [RFC 6598](#), April 2012.

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