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M. Andrews  
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Adding 100.64.0.0/10 Prefixes to the  
IPv4 Locally-Served DNS Zones Registry

Abstract

RFC 6598 specifies 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 from accidentally leaking to the global DNS infrastructure.

Status of This Memo

This memo documents an Internet Best Current Practice.

This document is a product of the Internet Engineering Task Force (IETF). It represents the consensus of the IETF community. It has received public review and has been approved for publication by the Internet Engineering Steering Group (IESG). Further information on BCPS is available in Section 2 of RFC 5741.

Information about the current status of this document, any errata, and how to provide feedback on it may be obtained at <http://www.rfc-editor.org/info/rfc7793>.

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1. Introduction

[RFC6598] specifies 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 the addresses described in [RFC1918], which are not expected to be seen by other parties, the addresses defined by [RFC6598] are expected to be seen by parties other than those deploying the addresses. Therefore, it is more crucial that recursive nameservers default to serving these zones locally.

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

IANA has added the zones listed in "RFC 6598 Zones" (Section 2.1) to the "IPv4 Locally-Served DNS Zone Registry".

2.1. RFC 6598 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  
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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

Per this document, IANA has added the zones listed in "RFC 6598 Zones" (Section 2.1) to the "IPv4 Locally-Served DNS Zone Registry".

IANA is reminded that an insecure delegation for these zones is required for compliance with [RFC6303] to break the DNSSEC chain of trust.

### 4. Security Considerations

This document does not present additional security risks to the Internet than those described in [RFC6303] and [RFC6598].

### 5. Normative References

[RFC1918] Rekhter, Y., Moskowitz, B., Karrenberg, D., de Groot, G., and E. Lear, "Address Allocation for Private Internets", BCP 5, RFC 1918, DOI 10.17487/RFC1918, February 1996, <<http://www.rfc-editor.org/info/rfc1918>>.

[RFC6303] Andrews, M., "Locally Served DNS Zones", BCP 163, RFC 6303, DOI 10.17487/RFC6303, July 2011, <<http://www.rfc-editor.org/info/rfc6303>>.

[RFC6598] Weil, J., Kuarsingh, V., Donley, C., Liljenstolpe, C., and M. Azinger, "IANA-Reserved IPv4 Prefix for Shared Address Space", BCP 153, RFC 6598, DOI 10.17487/RFC6598, April 2012, <<http://www.rfc-editor.org/info/rfc6598>>.

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#### Author's Address

M. Andrews  
Internet Systems Consortium  
950 Charter Street  
Redwood City, CA 94063  
United States

Email: marka@isc.org

