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ISC
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Add 100.64.0.0/10 prefixes to IPv4 Locally-Served DNS Zones Registry.
draft-ietf-dnsop-rfc6598-rfc6303-05

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.

Status of This Memo

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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

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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

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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

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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 ([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 [[RFC6598](#)] to break the DNSSEC chain of trust.

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", [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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