

IMAP Configuration Option for DHCP
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Abstract

This document describes a new option for Email related configuration information in Dynamic Host Configuration Protocol (DHCP), the option for Internet Message Access Protocol (IMAP) Server addresses for message retrieval from mailboxes on these servers.

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1. Introduction

This document describes a new option for email related configuration information in Dynamic Host Configuration Protocol [[RFC2131](#)].

2. Requirements notation & Naming Conventions

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [[RFC2119](#)].

3. Terminology

This document uses terminology specific to DHCPv4 as defined in "Terminology" section of the DHCPv4 specification [[RFC2131](#)].

4. The Internet Message Access Protocol Server Option Format

The Internet Message Access Protocol (IMAP) Server Option provides a list of one or more IPv4 addresses of IMAP [[RFC2060](#)] servers available to the clients for message retrieval from mailboxes on these servers. The IMAP servers SHOULD be listed in the order of preference. The format of the IMAP Protocol Servers option is shown in Figure 1.

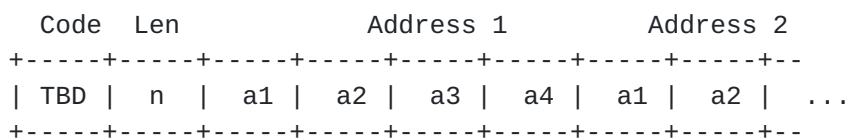


Figure 1: IMAP_SERVERS

Code: is TBD as per [[RFC2939](#)].

Len: Length n gives the total number of octets of ipv4 IMAP server addresses, it must be a multiple of 4.

5. Security Considerations

The IMAP server option may be used by an intruder DHCP server to cause DHCP clients to contact a rogue IMAP server, resulting in failure of email retrieval. Also a rogue IMAP server may get the login name and password of the clients which attempt to contact the IMAP servers.

To avoid attacks through these option, the DHCP client SHOULD use authenticated DHCP (see "Authentication for DHCP messages")

specification [[RFC3118](#)]).

6. IANA Considerations

IANA is requested to assign a value for the IMAP option code in accordance with [[RFC2939](#)].

7. References

7.1 Normative References

- [RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", [BCP 14](#), [RFC 2119](#), March 1997.
- [RFC2131] Droms, R., "Dynamic Host Configuration Protocol", [RFC 2131](#), March 1997.

7.2 Informative References

- [RFC2060] Crispin, M., "Internet Message Access Protocol - Version 4rev1", [RFC 2060](#), December 1996.
- [RFC2132] Alexander, S. and R. Droms, "DHCP Options and BOOTP Vendor Extensions", [RFC 2132](#), March 1997.
- [RFC2939] Droms, R., "Procedures and IANA Guidelines for Definition of New DHCP Options and Message Types", [BCP 43](#), [RFC 2939](#), September 2000.
- [RFC3118] Droms, R. and W. Arbaugh, "Authentication for DHCP Messages", [RFC 3118](#), June 2001.

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