

# Tru64 UNIX Best Practice

---

## Configuring SMTP Mail Servers Using Internet Express

**November 2001**

**Product Version:**                      **Internet Express Version 5.7**

This Best Practice describes how to use *Compaq*<sup>™</sup> Internet Express (formerly Open Source Internet Solutions) to configure a Simple Mail Transfer Protocol (SMTP) mail server.



---

# Contents

## Configuring SMTP Mail Servers Using Internet Express

Is This Best Practice Right for You? .....	1
Before You Begin .....	2
Sending, Distributing, and Delivering Mail .....	2
Compaq's Sendmail Implementations .....	2
Applying the Best Practice .....	3
Obtain the Internet Express Kit .....	3
Install Sendmail .....	3
Install the Administration Utility .....	3
Configure the System as a Mail Server .....	3
Starting or Stopping the SMTP Server .....	5
Instruct Users to Configure Their Client Systems .....	5
Verifying Success .....	5
Troubleshooting .....	5
Alternative Practices .....	6
Comments and Questions .....	6
Legal Notice .....	6



---

# Configuring SMTP Mail Servers Using Internet Express

You configure an SMTP server for sending, distributing, and delivering mail.

Internet Express provides the latest version of Sendmail, a mail transport agent using SMTP.

Internet Express is a collection of popular Open Source and other Internet software. Using Internet Express, you can install Sendmail on your *Tru64*<sup>TM</sup> UNIX system and use the default configuration values provided.

See the Tru64 UNIX Best Practices Web page for more information about Best Practices documentation.

## Is This Best Practice Right for You?

Not all Best Practices apply to all configurations, so you must be sure that this Best Practice is appropriate for your system and circumstances. To use this Best Practice, you must meet the requirements described in the following table.

Requirement	Description
Operating System	Tru64 UNIX Version 5.0A or higher
Product Version	Internet Express Version 5.7 or higher.
System Configuration	High-speed network interface. Consider multiple network interfaces for very high volumes. Make sure you have enough file system space in <code>/var/spool/mail</code> . Use a local file system, not an NFS-mounted file, to hold the spool file.

If you do not meet the previous requirements, see *Alternative Practices* for information.

## Before You Begin

Before you apply the Best Practice for Configuring SMTP Mail Servers Using Internet Express, you must understand some background information and perform some preliminary tasks.

If you have not already done so, register the IP address and any IP aliases for the system and configure the network. The Internet Express installation procedure will lead you through the network configuration, if necessary.

If you need to better understand the mail server environment and the role of this component, see the Best Practice document the Best Practice document *Planning Mail Services Using Internet Express*. It describes the basic mail functions, including the protocols used and the mail server components available in Internet Express.

## Sending, Distributing, and Delivering Mail

You can set up or modify the SMTP server configuration in any of the following ways:

- Standalone system—A standalone system does not send or receive mail from any other system. It can send and receive mail from other users on the same system only.
- Client system—A client system depends on a mail server for all mail processing. It must be connected to the same network as its mail server.
- Server system—A server system is a central host that performs all mail processing, such as forwarding, routing, addressing, aliasing, and mail delivery.

This Best Practice describes configuring the system as a mail server. For information on configuring a standalone or client system, see the Tru64 UNIX Network administration documentation for your version of the operating system.

## Compaq's Sendmail Implementations

Compaq provides Sendmail, a mail transport agent using SMTP, in the following implementations:

- Sendmail installed and configured as part of the Tru64 UNIX operating system.
- Latest-released version of Sendmail provided in Internet Express.

## Applying the Best Practice

Before you configure an SMTP server, be sure to follow the recommendations in *Before You Begin*.

The Internet Express “Installation and Documentation” CD-ROM contains Sendmail, as well as other Internet software. This Best Practice recommends that you:

1. Obtain the CD-ROM from the Internet Express kit.
2. Install the Sendmail subset (IAESMTP) and the Internet Express Administration Utility subset (IAEADM).
3. Use the Administration utility to configure the system as a mail server.
4. Configure mailbox access.

## Obtain the Internet Express Kit

Compaq includes the Internet Express CD-ROMs with Tru64 UNIX AlphaServer™ systems. If you need the Internet Express CD-ROMs, you can contact your Compaq representative. The part number for the Internet Express Kit is QB-3NCAA-SA .

## Install Sendmail

To install the Sendmail subset (IAESMTP), follow the instructions in the *Internet Express for Tru64 UNIX Installation Guide*. When you install Sendmail, the SMTP server automatically starts.

## Install the Administration Utility

To install the Administration utility subset (IAEADM), follow the instructions in the *Internet Express for Tru64 UNIX Installation Guide*. The Internet Express installation procedure automatically selects prerequisite subsets for installation.

## Configure the System as a Mail Server

To configure the system as a mail server, follow these steps:

1. From the Internet Express Administration utility, choose SMTP Server on the Manage Components menu.

2. On the SMTP Server Administration menu, choose Configure SMTP Server.
3. On the Configure SMTP Server menu, choose Server and click on Configure.
4. On the Configure Server form, click on Configure to configure the Internet Mail Protocol (SMTP). The first time you configure your system as a mail server, the Available Protocols menu offers only the Internet Mail Protocol. Additional protocols are offered after you complete the Internet Mail Protocol configuration.

The Configure SMTP Protocol form is displayed, from which you can optionally specify a host alias. Follow one of these steps:

- Click on Host Alias... to go to the Host Alias form and specify one or more mail aliases for this server. A host alias is a nickname for your system, which allows Sendmail to recognize both the current host name and the host alias. To add a host alias, type the name of the alias in the Alias field then click Add.
- Choose None to send mail directly to the addressee.

5. Click on Submit.

The Administration utility displays a message indicating that the changes have been accepted. Click on Continue to return to the Configure Server form.

6. Verify the default top domain in the Top Domain field and modify it if necessary. A top domain is needed if your organization uses any other protocols besides TCP/IP to deliver mail (for example, DECnet or UUCP). The top domain is usually your company name and Internet domain, for example, `compaq.com` or `isc.org`.

7. Click on Submit.

The Administration utility displays a message stating that the configuration was successful, and that the SMTP server has been restarted.

8. You can return to the Configure SMTP Server menu to configure additional mail protocols or advanced features, such as masquerading, enabling virtual domains or `procmail`, `antispam`, or LDAP. See the *Internet Express for Tru64 UNIX Administration Guide* for complete information. Use the navigation links to return to the Configure SMTP Server menu.

## Starting or Stopping the SMTP Server

The SMTP server automatically starts when you install Sendmail. To manually start (or stop) the SMTP server, follow these steps:

1. On the Administration Utility Main menu, choose Manage Components.
2. Under Mail on the Manage Components menu, choose SMTP Server.
3. On the SMTP Server Administration menu, choose Start/Stop the SMTP Server.
4. Click on Start (or Stop).

## Instruct Users to Configure Their Client Systems

Provide users with the information to configure mail clients:

- The name of the SMTP server
- The login name and password

## Verifying Success

After you apply the Best Practice for Configuring an SMTP Mail Server, you can verify whether it was successful.

- You successfully installed Sendmail and the Administration utility from Internet Express.
- Using the Administration utility, you configured the system as an SMTP server, started the server, and configured mailbox access.
- Users can send mail using the SMTP server.
- The system generates a log file in `/var/admin/syslog.dated/current_date/mail.log` that you can review.

If the Best Practice was not successful, see *Troubleshooting* for information about identifying and solving problems.

## Troubleshooting

If you determine that the Best Practice was not successful, as described in *Verifying Success*, use the following table to identify and solve problems.

Problem	Possible Solutions
An Internet Express subset did not install.	Review the installation steps described in the <i>Internet Express for Tru64 UNIX Installation Guide</i> .
You could not configure the system as a mail server.	Review the detailed steps in the <i>Internet Express for Tru64 UNIX Administration Guide</i> .
You could not start the SMTP Server.	From the SMTP Server Administration menu, click on Start/Stop the SMTP Server.

## Alternative Practices

Although this Best Practice is the recommended method for configuring an SMTP server, you can use an alternative method.

- Copy and install the binary kit or install sources from:  

```
ftp://ftp.cs.berkeley.edu/ucb/sendmail/
```
- If you are running Tru64 UNIX Version 5.0A or higher, continue to use the version of Sendmail provided with the operating system.
- If you have NFS-mounted spool files (`/var/spool/mail`), configure mailbox access and locking as described in the *Internet Express for Tru64 UNIX Administration Guide*.

## Comments and Questions

We value your comments and questions on the information in this document. Please mail your comments to us at this address:

`best_practices@zk3.dec.com`

## Legal Notice

Compaq, the Compaq logo, AlphaServer, and Tru64 are trademarks of Compaq Information Technologies Group, L.P.

Microsoft, Windows, and FrontPage are trademarks of Microsoft Corporation. UNIX and The Open Group are trademarks of The Open Group. All other product names mentioned herein may be trademarks of their respective companies.

Confidential computer software. Valid license from Compaq required for possession, use, or copying. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and

Technical Data for Commercial Items are licensed to the U.S. Government under vendor's standard commercial license.

Compaq shall not be liable for technical or editorial errors or omissions contained herein. The information is provided "as is" without warranty of any kind and is subject to change without notice. The warranties for Compaq products are set forth in the express limited warranty statements accompanying such products. Nothing herein should be construed as constituting an additional warranty.