

Configuring mail forwarding for the root user

WHAT

This article describes how to configure mail forwarding for the <u>root</u> user.

WHY

Enable mail forwarding for the <u>root</u> user to get information about system events.

EFFORT

It should not take longer than five minutes to configure mail forwarding.

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1 Configuring root mail forwarding with YaST

1.1 Introduction

System daemons, <u>cron</u> jobs, <u>systemd</u> timers, and other applications can generate messages and send them to the <u>root</u> user of the system. By default, each user account owns a local mailbox and will be notified about new mail messages upon login.

These messages can contain security-relevant reports and incidents that might require a quick response by the system administrator. To get notified about these messages in a timely fashion, it is strongly recommended to forward these mails to a dedicated remote e-mail account that is regularly checked.

1.2 Requirements

- A network connection
- A remote e-mail account that reliably receives messages
- root or **sudo** privileges

1.3 Configure root mail forwarding with YaST

The following procedure describes how to configure mail forwarding for the <u>root</u> user to a dedicated remote e-mail account.

To forward mail for the root user, perform the following steps:

1. Install the yast2-mail package:

```
# zypper in yast2-mail
```

2. Run the interactive YaST mail configuration:

```
# yast mail
```

3. Choose *Permanent* as *Connection type* and proceed with *Next*.

- 4. Enter the address of the *Outgoing mail server*. If necessary, configure *Authentication*. It is strongly recommended to *Enforce TLS encryption* to prevent potentially sensitive system data from being sent unencrypted over the network. Proceed with *Next*.
- 5. Enter the e-mail address to Forward root's mail to and Finish the configuration.
 - Important: Do not accept remote SMTP connections

 Do not enable Accept remote SMTP connections, otherwise the local machine will act as a mail relay.
- 6. Send a message to test whether the mail forwarding works correctly:

```
> mail root
subject: test
test
.
```

Check the remote e-mail account for new messages. Your test message should arrive within minutes.

1.4 Troubleshooting

If the test message does not arrive, perform the following steps to analyze the problem.

Is the postfix daemon running?

Check if the <u>postfix</u> daemon is running with <u>systemctl status postfix.service</u>. If the service is down, the output includes additional information on the cause of the problem.

Has the test message been sent?

Use the **mailq** command to verify that the test message has been sent. Upon success, the queue should be empty.

Is the outgoing mail server resolved correctly?

Check that the system resolves the mail server of the remote e-mail account correctly. Run **host -t mx** *example.com* (where *example.com* is the domain of the e-mail account configured in step 5).

Can you reach the outgoing mail server?

Verify you can ping the mail server with **ping -c 5** *mail.example.com* (where *mail.example.com* is the host name of the mail server returned by the **host** command in the previous step).

Does the test message still not arrive?

If <u>mailq</u> reports the message has been sent successfully, the problem must be on the receiving end. Check the configuration of the remote e-mail account and its spam folder.

2 What's next?

Depending on the number of managed machines and the number of persons who need to be informed about system events, different e-mail address models can be established:

- Collect messages from different systems in an e-mail account that is only accessed by a single person.
- Collect messages from different systems in a group e-mail account (aliases or mailing list) that can be accessed by all relevant persons.
- Create separate e-mail accounts for each system.

It is crucial that administrators regularly check the related e-mail accounts. To facilitate this effort and identify important events, avoid sending unnecessary information. Configure applications to send only relevant information.

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