

WebHare can send outgoing mail through Amazon SES, and process bounces/complaints through SNS. This guide will use the Amazon 'aws' command line utility, but you can also do the process through the web interface.

SMTP Account

Configure a SMTP account with Amazon in the Amazon console. It will provide you with the email/smtp server name, username and password.

In WebHare, set mail settings: SMTP server (eg email-smtp.eu-central-1.amazonaws.com), port (587), username and password.

Bounces and feedback

To prepare your WebHare for SES, you need to ensure it can process bounces. You need to do this once per installation that will use SES.

Before you begin you'll need to find your WebHare server's SNS endpoint (in WebHare's mail configuration) and set up your SES/SNS credentials.

```
# Set up a topic name - use eg 'myserver-email'
aws sns create-topic --name <TOPIC>

# The above command will return the topic's full ARN which you'll need
# to specify to --topic-arn.
aws sns subscribe --topic-arn <TOPIC-ARN> --protocol https --notificati
```

Verify your identity

To be allowed to actually send, you'll need to verify each identity you'll be using at either the email or domain level. To verify an email address:

```
# Specify the email address to verify
aws ses verify-email-identity --email-address <EMAIL>
```

and follow the email instructions you receive.

You can also verify a full domain, but that'll also require some DNS setup:

```
aws ses verify-domain-identity --domain <DOMAIN>

aws ses get-identity-dkim-attributes --identities <DOMAIN>
```

Configure the identity

Whether you choose a mail or domain entity, you now need to configure this identity to send its delivery information to this topic (and not just mail it back to you). To link the identity to your SNS topic:

```
# Receive all three notification types
aws ses set-identity-notification-topic --identity <IDENTITY> --notific
aws ses set-identity-notification-topic --identity <IDENTITY> --notific
aws ses set-identity-notification-topic --identity <IDENTITY> --notific

# Enable header information (WebHare needs the Message-IDs)
aws ses set-identity-headers-in-notifications-enabled --identity <IDENT
aws ses set-identity-headers-in-notifications-enabled --identity <IDENT
aws ses set-identity-headers-in-notifications-enabled --identity <IDENT

# Disable email feedback
aws ses set-identity-feedback-forwarding-enabled --identity <IDENTITY>
```

If none of the above steps returned an error, you're almost done. Set up WebHare's mailrouting, and if you're setting this up for the newsletter module (Pronuntio), don't forget to disable its own bounce handling for each relevant account.

Testing

Amazon provides [simulator email addresses](#) you can use to test your configuration. For example, emailing `bounce@simulator.amazonses.com` should allow you to see the Bounce status in the managed queue mail details.

WebHare 4.28 offers a simpler `<filetype>` definition syntax which makes prebuilt files obsolete.

A quick guide to switch from prebuilt types to filetypes:

Change

```
1 | <prebuiltpage type="dynamic" tag="prebuilt:type" library="lib.whl
```

to

```
1 | <filetype namespace="http://example.net/xmlns/filetype" kind="vir
2 |   <dynamicexecution webpageobjectname="lib.whlib#Page" />
3 | </filetype>
```

And set up a conversion script:

```
<?wh
```

```
LOADLIB "mod::system/lib/database.whlib";  
LOADLIB "mod::system/lib/migrations.whlib";
```

```
OpenPrimary()->BeginWork();  
ConvertPrebuiltFiles("prebuilt:type", "http://example.net/xmlns/filetyp  
GetPrimary()->CommitWork();
```

