# TbUtil SMTP Plugin

30 Nov 2020

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# Why is the SMTP plugin needed?

- XL (multiple deployment models) and classic have different email sending mechanisms.
- In some cases we need to install multiple Linux packages to send email from scripts.
- A standardized way of sending emails from scripts would be helpful.

#### What is it?

- A way to send emails from Turbonomic integration scripts.
- A new plugin for "TbUtil".
  - Written in "GO"
  - Can be use in TbScript scripts (written in JavaScript).
- It comes with version 1.2c and later.
- It has no dependencies other than "TbUtil" itself.

- Please consider the 1.2c version to be "experimental".
  - Future releases will productionise it.

## Example use case.

- Email report on status of targets
- Logic:
  - Collect information about targets using getTargets() API call.
  - Write to a local HTML file "/tmp/targets.html".
  - Load the SMTP plugin
  - Load the email configuration file (we'll use "email-config.json")
  - Call the plugin's "send" function with the required configuration data.

# "send(...)" function configuration

- Takes a JS object argument containing...
  - Optionally: SMTP server config details.
    - Server IP and port, User, password or secret, encryption type, sender email address
    - The config from Turbo itself can optionally be used.
  - Email header fields
    - Subject
    - To, Cc, Bcc
  - Body parts list. Can contain:
    - Embedded text
    - Attachments.
  - Consider building it using the "template(..)" function.

## **Example Script**

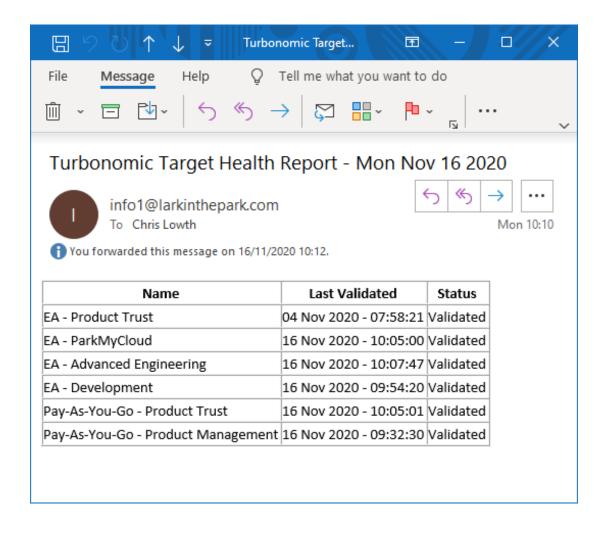
```
Load the plugin and get a reference to
var smtp = plugin("smtp-plugin");
                                                                       it.
var targets = client.getTargets();
                                                                        Collect the data and format the HTML
                                                                       report.
// code here to create HTML file "/tmp/targets.html"
// would go here (omitted for brevity).
                                                                        Read the config file, and patch in the
                                                                        date and file name.
var info = {
         date: (new Date()).format("Mon Jan 2 2006")),
         filePath: "/tmp/targets.html",
                                                                        Parse the file's text (which must be in
         fileName: "targets.html"
                                                                        JSON format) into a JS object.
};
                                                                        Send the email.
var configText = template("email-config.json", info);
                                                                        Specifying the API client object as the
var configObject = JSON.parse(configText); 
                                                                        2<sup>nd</sup> argument allows the email server
                                                                        details to be taken from the Turbo
smtp.send(configObject, client)
                                                                        instance itself.
```

## Example config file for HTML message

- This uses config from Turbo itself
- It sends the html text in the body of the message to two people.

```
"to": "chris.lowth@turbonomic.com",
"cc": "mark.hastings@turbonomic.com",
"subject": "Target Health Report - {{ .date }}",
"parts":
                "mimeType": "text/html",
                "encoding": "quoted-printable",
"contentFile": "{{ .filePath }}",
                                                                      Expanded by the
                                                                      "template()" function
                                                                      in the JS code
```

#### Received HTML email



#### Example config for message with attachment

- uses config from Turbo itself
- sends the html text as attachment to the body of the message

```
"to": "chris.lowth@turbonomic.com",
"subject": "Target Health Report - {{ .date }}",
"parts":
                    "mimeType": "text/plain",
"content": "Here's the report you wanted"
                    "mimeType": "text/html",
"encoding": "base64",
"contentFile": "{{    .file
                    "fileName": {{
                                                                                    Expanded by the
                                                                                     "template()" function
                                                                                    in the JS code
```

#### Documentation

• See the smtp-plugin.pdf file, available on the TbUtil download page and in the installation tar file.