



Adapters

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Use generic-email adapter

The **Email Adapter** (generic-email) adds an element of reporting into your workflows by providing basic functionality to send emails using an SMTP server. For the 1.0.0 adapter version, you can use the `send` activity to send an email with a message defined inside the workflow definition.

Get generic-email adapter

Download the CWM 1.1 Software package. The `cwm.v1.1.generic.email.v1.0.0.tar.gz` file is included inside the package.

Install adapter

To install the adapter, follow the instructions on how to install an adapter in the Operator guide.

Create SMTP resource and secret

Before going into the details of defining your email message inside a workflow, you need to add a resource and a secret to CWM. You will later need to reference them inside your workflow.

Add secret

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- Step 1** In CWM, navigate to the **Admin** -> **Secrets** tab.
 - Step 2** Click **Add Secret**.
 - Step 3** In the **New secret** view, specify the following:
 - a) Secret ID: name your secret. You'll need to reference this secret ID later in the resource and inside the workflow. E.g. `emailSecret`.
 - b) Secret type: select `basicAuth`.

- Step 4** After selecting the secret type, a set of additional fields is displayed under the Secret type details section. Fill in the fields with the following:
- password: provide password to your sender email address.
 - username: provide the address you will send the email from in the format `sender@address.com`.
- Step 5** Click **Create Secret**.
-

Add resource

- Step 1** In CWM, navigate to the **Admin -> Resources** tab.
- Step 2** Click **Add Resource**.
- Step 3** In the **New resource** window, specify the following:
- Resource name: name your resource. You'll need to provide the resource ID later inside the workflow as a reference. E.g. `emailResource`.
 - Resource type: select `generic.email.resource.v1.0.0`.
 - Secret ID: provide the ID of the secret you've just added.
 - Connection:
 - Host: provide the address of the SMTP server to be used.
 - Port: provide the SMTP port. The standard SMTP ports for encrypted email transmissions are either 587 or 25.
 - Scheme: this field is not required.
 - Timeout: this field is not required.
 - Allow Insecure: select `true`.
- Step 4** Click **Create resource**.
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Define the `Send` activity in workflow

Learn how to use the adapter `Send` activity in a workflow.

Set activity reference

In CWM, the adapter `Send` activity is referred to as `generic.email.smtp.Send`. When defining a workflow, you need to specify it as the value of the `operations` parameter under `functions`:

```
"functions": [
  {
    "name": "smtp.send",
    "operation": "generic.email.v1.0.0.smtp.Send"
  }
]
```



Note Inside the `name` parameter, provide an activity name that you will later refer to in the `refName` parameter while defining the action.

Define email message in `actions`

Now you can define an action in which an email will be sent as part of a workflow state.

The available input parameters for the action are:

Field	Type	Label	Description
from	string		Sender email address
to	string	repeated	List of recipient email addresses
cc	string	repeated	List of recipient cc email addresses
bcc	string	repeated	List of recipient bcc email addresses
subject	string		Email title
text	string		Email body as text
html	string		Email body as html

Use the available fields as the `input` key/value pairs within the `arguments` that define the `SendEmail` example action as shown below:

```
"states": [
  {
    "name": "EmailState",
    "type": "operation",
    "end": true,
    "actions": [
      {
        "name": "SendEmail",
        "functionRef": {
          "refName": "smtp.send",
          "arguments": {
            "input": {
              "to": ["recipient1@address.com", "recipient2@address.com"],
              "from": "sender@address.com",
              "text": "Hello, this is some placeholder email text.",
              "subject": "A test email from CWM"
            },
            "config": {
              "resourceId": "emailResource"
            }
          }
        }
      }
    ]
  }
]
```

If you want to trigger the email action based on a condition, you can use the `Switch` state and define the `dataConditions` parameter inside it. For details, check out the [Serverless Workflow Specification documentation](#) for the `Switch` state.

