

d.veLop

d.ecs script: Administrator

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1. d.ecs script

1.1. Basic information on the application and the manual

In this chapter you will find general product information and user instructions.

1.1.1. About d.ecs script

d.ecs script is a service that allows you to centrally make PowerShell scripts available to other services and programs. Some programs of d.velop AG can call these scripts directly. Furthermore there is the possibility to access the scripts via the API.

The d.velop AG only provides support for the service itself. d.velop AG does not assume any liability or support for the deposited scripts and the damages that may occur during the execution of the scripts.

1.2. Installation and uninstallation

This chapter contains the system requirements and helpful information for installing and uninstalling the application.

1.2.1. Installing d.ecs script

Before you execute the setup to install d.ecs script, you need to install the central apps. For information on installing the central apps using the d.ecs infrastructure setup, refer to the appropriate manual.

The setup wizard will guide you through the installation of d.ecs script:

1. Welcome

Select **Next** to continue the process.

2. Select a folder

Select the installation path for d.ecs script.

3. Overview

Select **Install** to start the installation.

4. Finish the setup

Confirm the completion of the installation with **Done**.

1.2.2. Uninstalling d.ecs script

To uninstall d.ecs script, go to the Windows Control Panel at **Programs and Features** and uninstall the program "d.ecs script".

1.3. Getting started

This chapter is dedicated to the first steps after the software has been installed.

1.3.1. Managing scripts

To create, edit and delete scripts, select **Configuration** on the start page.

Navigate to **E-mail management > Manage scripts** and click on **Scripts**.

To create a new script, click on the plus icon (+) in the menu bar. Fill out the form.

Description of the parameters:

Execution URL: After saving, this URL appears which can be used to execute the script (HTTP post).

Title: Title/name of the script.

Description: Description of the script.

Host name: Specifies the host on which the script is to run. Lists all hosts on which a ScriptApp instance is running. The value "*" selects the host randomly.

Script language: Currently PowerShell is supported.

Edit mode: If enabled, the script cannot be started externally (a "403 Forbidden" error message appears).

To edit existing scripts, click on a respective entry. You can delete a script using the respective menu entry in the right menu bar.

1.4. Further functions and settings

In this topic you will find functions and settings that a user might need for certain situations. The user already knows the basic functionality and would like to familiarize himself with further functions.

1.4.1. Using the API

Execute script

URI: `https://<d3one>/script/execute/<ScriptID>` (Post)

DTO:

```
{
  "successCallback" : "http://localhost/success",
  "errorCallback" : "http://localhost/error",
  "scriptDto" :
  {
    "fileName" : "test.txt",
    "action" : "delete"
  },
  "isTest" : false
}
```

- **successCallback:** URL that is called when the script is successfully executed.
- **errorCallback:** URL, which is called if the script was not executed successfully.
- **scriptDto:** Not exactly defined "Data Transfer Object", which can be parsed in the script.
- **isTest:** Boolean parameter that can be used to check whether the interface is accessible.

The interface must be addressed via a POST request.

Possible return values of the interface:

Status code	Description
201	The script was successfully written to a queue for execution.
204	The interface is accessible. This status code is returned if the parameter "isTest" has the value "true".
403	The script could not be executed because it is still in edit mode.
404	The script with the specified key was not found.
503	The queue is full, execution has been rejected.

Retrieving the configured scripts

URI: https://<d3one>/script/scripts

DTO:

```
{
  "scripts": [
    {
      "key": "d6baa529-e5c9-4588-afba-d8b2fe70f745",
      "title": "Anlagenprüfung auf PDF",
      "location": "*",
      "description": "Anlagenprüfung auf PDF",
      "scriptContent": "<ScriptContent>",
      "editMode": true,
      "scriptLanguage": "PowerShell"
    }
  ]
}
```

Structure of a script (PowerShell)

```
param([string]$scriptDto)
#Parsing of scriptDto
$dto = $scriptDto | ConvertFrom-Json

$obj = @{ }

#Custom Code BEGIN

...

$obj.returnValue = 0
#Custom Code END

#Prepare and return DTO
$obj.scriptDto = $dto | ConvertTo-Json
return $ResultObj = (New-Object PObject -Property $obj)
```

As transfer parameter the script receives the "scriptDto", which can be parsed into an object. As return value a new object must be created, which has a "returnValue" and the "scriptDto". Optionally an error message can be set in the field "message". The "returnValue" can be used to control whether the "Error-Callback" or "SuccessCallback" should be called. The value "equal to zero" calls the "SuccessCallback", otherwise the "ErrorCallback".

Return object:

```
{
  "returnValue" : 0,
  "message" : "All ok",
  "scriptDto" :
  {
    "fileName" : "test.txt",
    "action" : "delete"
  }
}
```

The following PowerShell commands can be used to write to the d.3 log:

Write-Information => Info message

Write-Warning => Warning message

Write-Error => Error message

Write-Debug, Write-Verbose => Debug message

1.5. Additional information sources and imprint

If you want to deepen your knowledge of d.velop software, visit the d.velop academy digital learning platform at <https://dvelopacademy.keelelearning.de/>.

Our E-learning modules let you develop a more in-depth knowledge and specialist expertise at your own speed. A huge number of E-learning modules are free for you to access without registering beforehand.

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