

# d.veLop

d.ecs monitor powershell  
executer: Administrator

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# 1. d.ecs monitor powershell executer

## 1.1. Introduction

### 1.1.1. Prerequisites

This documentation is addressed to system administrators who want to monitor their d.3 system with d.ecs monitor.

This documentation describes the installation and configuration of the d.ecs monitor powershell executer.

### 1.1.2. About the d.ecs monitor powershell executer

The d.ecs monitor powershell executer allows you to regularly execute PowerShell-scripts on the computer on which the d.ecs monitor is installed. The results are forwarded to the d.ecs monitor as the result of the check for analysis.

## 1.2. Installation

### 1.2.1. Installation d.ecs monitor powershell executer

There are different possibilities for the installation of a wrapper for d.ecs monitor.

#### Via d.ecs monitor

This application is automatically included in the scope of delivery of d.ecs monitor from version 1.6.0. You can install the application on the desired target computers via the monitoring components distribution. For more information about the installation, please refer to the d.ecs monitor documentation in the chapter **Wrapper**.

#### Manual installation

To install on the desired target computer, start the setup and follow the instructions.

#### Warning

d.ecs monitor powershell executer can only run on the computer running d.ecs monitor.

#### Note

The Windows service for d.ecs monitor, d.ecs monitor agent and the d.ecs monitor wrappers must run under the account of a local system or an account with local administration rights.

This is necessary because the Windows services provide web services that are bound to the hostname to enable operation in a d.ecs http gateway cluster.

## 1.3. Configuration

Two options exist to open the configuration page of the d.ecs monitor powershell executer.

- Via the URL `https://<basis-adresse>/monwpe<Hostname>/config`.
- Choose **Linked pages** for d.ecs monitor powershell executer object in d.ecs monitor.

The following illustration shows the main configuration page. This page provides an overview of the currently configured PowerShell scripts.

### Configurations



Filter:  1

Active	Title	Description
<input checked="" type="checkbox"/>	Size of the %temp%-directory	Returns the size of the %temp%-directory i...

Click on an entry of the list to open the detail view of the object to be checked.

The following illustration shows the configuration of the PowerShell scripts in detail. You can adjust the configuration in this view.

**Note**  
 The PowerShell script must return a Double-value.  
 The notification thresholds can then be configured in the d.ecs monitor.

### Configuration



Active

Interval [min]:

Language

<b>Title:</b> <input type="text" value="Size of the %temp%-directory"/>	<b>Description:</b> <input type="text" value="Returns the size of the %temp%-directory in MB"/>	<b>Recommendation:</b> <input type="text" value="clean %temp%-directory"/>
--	--	---

```

1 #Returns the size of the %temp%-directory in MB
2 $items = (Get-ChildItem "$env:temp" -recurse | Measure-Object length -sum)
3 return "{0:N2}" -f ($items.sum / 1MB)

```

[Test current configuration](#)

Click on **Test current configuration** to execute the PowerShell script and display the result.

Two monitoring objects are created for each configuration.

👁️ Überwachungsobjekte	
✅ 2	Σ 2
✅ Größe des %temp%-Verzeichnisses überwachen - Ausführbarkeit	🔔 0
✅ Größe des %temp%-Verzeichnisses überwachen - Rückgabewert	🔔 4.484,38

The monitoring object **Executability** has the value 0 if the script could be executed without errors. In case of an error, the value -1 is set. The error limit is also permanently set to this value, so that this monitoring object changes to error status.

The monitoring object **Return value** corresponds to the double value that is determined within the script and returned to d.ecs monitor powershell executer.

## 1.4. Examples

The following chapters provide some sample Powershell scripts allowing you to monitor your systems.

### 1.4.1. Network monitoring

The script allows you to check the availability of a computer on a network.

The script executes a PING and returns the response time in milliseconds.

```
$ping = Test-Connection <Hostname>
return $ping.ResponseTime
```

### 1.4.2. Directory monitoring

#### Number of files in the directory

The script allows you to monitor the number of files in a directory.

The script counts the number of files in the specified directory and all subdirectories.

```
$filepath = "c:\tmp"
$filetype = "*.*"
$file_count = [System.IO.Directory]::GetFiles("$filepath", "$filetype",
"AllDirectories").Count
return $file_count
```

#### Size of files in directory

The script allows you to monitor the size of files in a directory.

The script returns the size of the files contained in the specified directory in megabytes.

```
#Gibt die Größe des %temp%-Verzeichnisses an
$items = (Get-ChildItem "$env:temp" -recurse | Measure-Object length -sum)
return "{0:N2}" -f ($items.sum / 1MB)
```

## 1.5. Additional information sources and imprint

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