# Copy Insight Data from PROD to TEST – Installation Guide –

## Content

## Overview

The solution described here is based on Powershell and SQL Scripts. The main script is named **"CopyProdToTest.ps1".**

The script runs without any user interaction. All parameters are read from a config file and customized SQL script files. Thus, the script can be started automatically by a scheduled task with all output being redirected to a logfile.

These are the main steps of the script:

- Take backups of the current Insight and Construct PROD databases
- Stop Inresponse services in the TEST environment
- Kill all Sessions on TEST databases
- Drop TEST databases
- Restore TEST databases from the backups
- Run "New installation" SQL Scripts for Insight
- Adjust Settings and parameters in the Insight database:
  - IMOS/Construct database name
  - network paths (e.g. "Imosdata")
  - URLs (e.g. Reporting Services URLs)
  - Email addresses can be modified to invalid addresses or alternatively to a test address
  - Setting for SMTP server can be modified to a invalid hostname
  - Inresponse Users and associated action types
  - specific Insight settings (e.g. for interfaces)
  - network printer names
  - custom specific SQL scripts
- Optionally copy Reports from PROD to TEST server resp. subfolder

- Optionally reduce the size of the target Insight database:
    - Run specific "purge" procedures
    - Truncate specific "attachment" tables
    - Shrink the database
    - Create database backup after shrink e.g. for uploading to 2020.
- Start Inresponse Services in the TEST environment
- Reboot TEST Construct Application workstation
- Optionally send the logfile containing all output of the script to an administrator

## Prerequisites

The script can be started on any computer, but it is recommended to start it on the TEST database server.

The Powershell module "SQLServer" is required for the script.

To install the SqlServer PowerShell module from the PowerShell Gallery open PowerShell (either PowerShell.exe or the PowerShell ISE) as Administrator and run the following command:

```
Install-Module -Force -Allowclobber SqlServer
```

If "Install-Module" leads to error messages like "Unable to download from URI 'https://go.microsoft.com…", probably this Microsoft article might help:
[Trying to install program using Powershell and getting this error - Microsoft Community](#)

If "Install-Module" is not able to access the Powershell Gallery, you can download and install the module manually as follows:

1. Run from PS console: Invoke-WebRequest -Uri powershellgallery.com/api/v2/package/sqlserver -Out D:\temp\sqlserver.zip

2. Extract and save to Program Files\WindowsPowerShell\Modules\sqlserver

3. Check if Powershell is able to see it: Get-Module -ListAva

If the option to copy Reporting Services Reports is used, the Powershell Module "ReportingServicesTools" is also required. To install this module run the following command from a Powershell as Administrator:

```
Install-Module -Force -Allowclobber ReportingServicesTools
```

The "CopyProdToTest" script must be run by a domain user account with following access rights:

- SQL Server "sysadmin" role in both SQL Server instances, "PROD" (=Source) and "TEST" (=target).
- Member of the local Windows group "Administrators" on the Inresponse host(s) for the TEST environment
- If the firewall is active on the Inresponse host(s) for the TEST environment, make sure to enable the predefined rules "Remote Service Management (RPC)" and "Remote Service Management (RPC-EPMAP)"
- Read/Write access to a shared folder that can be used for the database backup. Also, the SQL Server service accounts of both SQL Server instances need to have read and write access to this folder.

# Extract Package

Right click on the downloaded zip file and klick on "Unblock" when there is a warning shown "This file came from another computer and might be blocked..."

Extract the zip file to a local folder on the server where you want to run the script. In the following examples the folder is "**C:\Insight\utilities\CopyProdToTest**"

# Adjust the configuration

Make a copy the subfolder "Template" with an appropriate name, e.g. your company name. In the following we use the name "**ZZZZ**" .

Adjust the variables in the file "**ZZZZ/config.ps1**" according to your environment and your needs. The variables are explained in the file.

To find all those values, you can use the SQL Script "**Tools/FindPathsInInsightDB.sql**". Run this script on the PROD database and look for path names, URLs, Email addresses etc. in the result sets that have to be changed in the TEST environment. Take note of these values und the respective values that should be used in the TEST environment.

**Own specific SQL Scripts**

If required, add own specific SQL scripts to the subfolder ZZZZ/LocalPostCopySQL and insert the names of those scripts into the file "**A00 Object Sequence.txt**".

# Run the Copy script

Create a scheduled task as follows:

**Program:**

```
C:\Insight\utilities\CopyProdToTest\Call_CopyProdToTest.bat
```

**Arguments:**

```
ZZZZ
```

**Start in:**

```
C:\Insight\utilities\CopyProdToTest
```

Run the scheduled task manually and check the results in the Logfile "CopyProdToTest_ZZZZ.log" in the subdirectory "log".

If you have set the SMTP parameters in ZZZZ\config.ps1, the script will send this logfile to the configured mail address. If this doesn't work, look into the logfile "SendLogfile_ZZZZ.log" in the subdirectory „log".

# Automatic start of Inresponse on Construct Workstations

If you want to automatically restart Inresponse on a Construct Application Workstation, you can add the name of the workstation to the variable "$InresponseHostsToRestart" in your "config.ps1" file. The workstation will be automatically rebooted. To make inresponse start automatically after a reboot you have to configure the following on this workstation:

## Configure automatic login for Inresponse User

Add the following Registry Keys (Type String) below
```
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows
NT\CurrentVersion\Winlogon:

DefaultUserName (=Username of inresponse User)

DefaultPassword (=Password of inresponse User)

AutoAdminLogon   (=1)

DefaultDomain    (= fully qualified domain name)
```
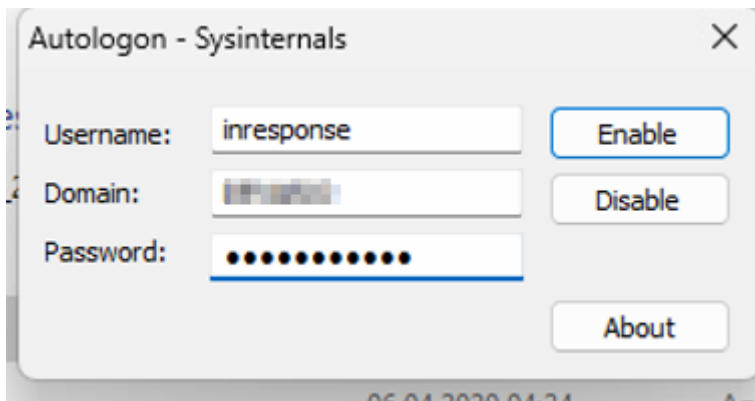
Source: https://support.microsoft.com/en-us/help/324737/how-to-turn-on-automatic-logon-in-windows

As an alternative you can use the tool "Autologon" from Microsoft Sysinternals to configure this: https://learn.microsoft.com/en-us/sysinternals/downloads/autologon

After starting the Autologon tool, enter the username, Domain name and password:



This tool has the advantage of storing the password encrypted as an LSA secret instead of storing it in clear text in the Windows registry.

## Configure Inresponse to start automatically at login

Create a shortcut to start Inresponse in"Autostart" folder. To open this folder under Windows 10, press "Windows"+"R" and enter "shell:startup". Then copy the "Inresponse" shortcut from the desktop to this folder.