
MORPH.pro **SMARTUNIFIER**

SMARTUNIFIER High Availability Demo Guide

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Amorph Systems GmbH

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WHAT IS SMARTUNIFIER HIGH AVAILABILITY DEMONSTRATOR

SMARTUNIFIER High Availability Demonstrator is a package that allows users to simulate the connection between a production equipment and an Influx DB, using two Instances with a load balancer.

This illustrates that **SMARTUNIFIER** is capable to run in a high availability mode, becoming the tool of choice for critical use cases. The package contains all the necessary tools to run a complete communication scenario out of the box.

1.1 Benefits of SMARTUNIFIER High Availability Mode

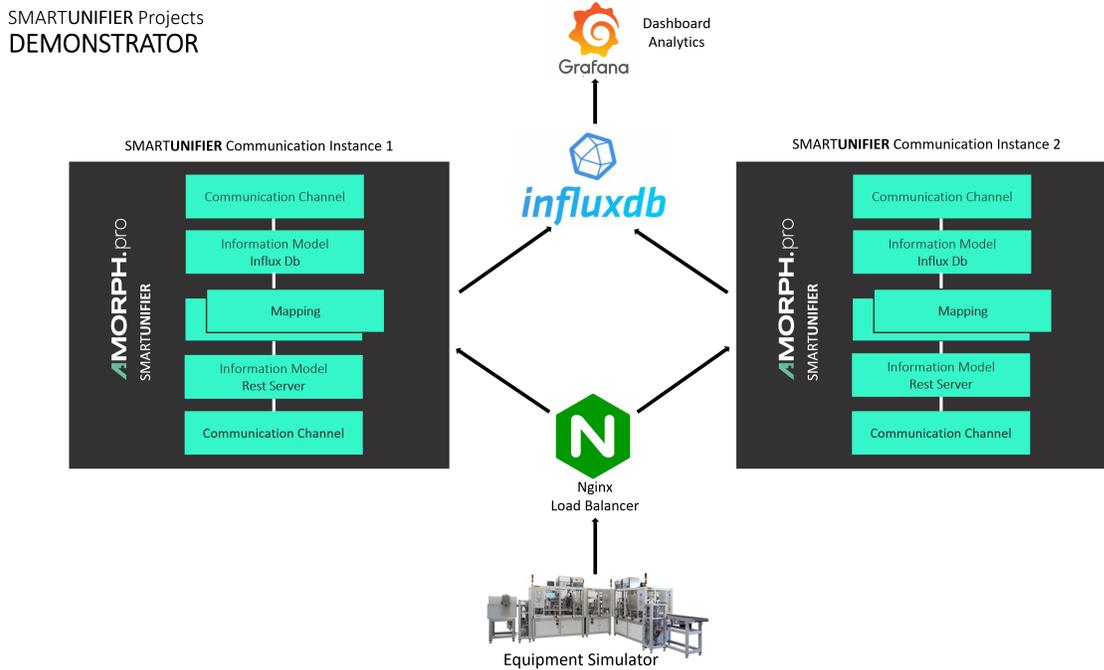
- Downtime reduction
- Performance improvements
- Instance update without downtime

1.2 Components

The Demonstrator package contains the following components:

- **SMARTUNIFIER Manager** – a modern web application to create **SMARTUNIFIER** Instances that enable the communication between the Rest Server and the Influx DB.
- **Influx Database** - a Docker image containing the Influx Database where the data coming in from the Rest Server will be stored and used to build visualizations.
- **Grafana** - a Docker image containing a preconfigured Grafana application that has a built-in dashboard displaying the key parameters sent by the Rest Server.
- **Nginx** - a Docker image representing the load balancer for the two **SMARTUNIFIER** Instances.
- **Send_Data Script** - a script that generates random values for two parameters: **PRESSURE** and **TEMPERATURE**.

1.3 Data Flow Diagram

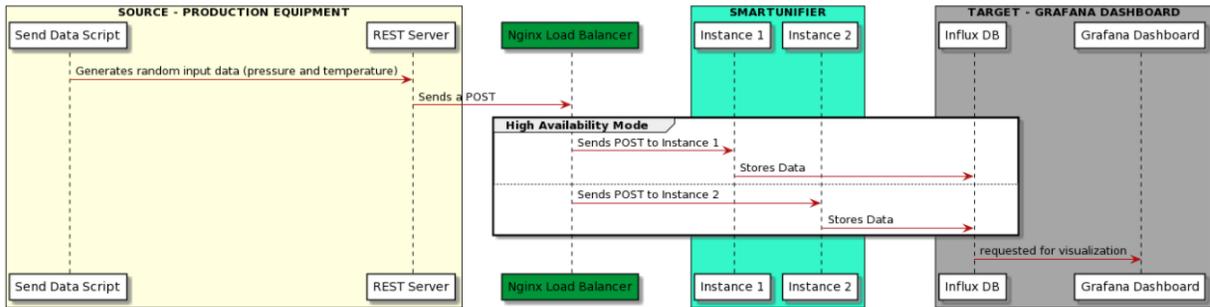


1.4 Demonstrator Artefacts Structure

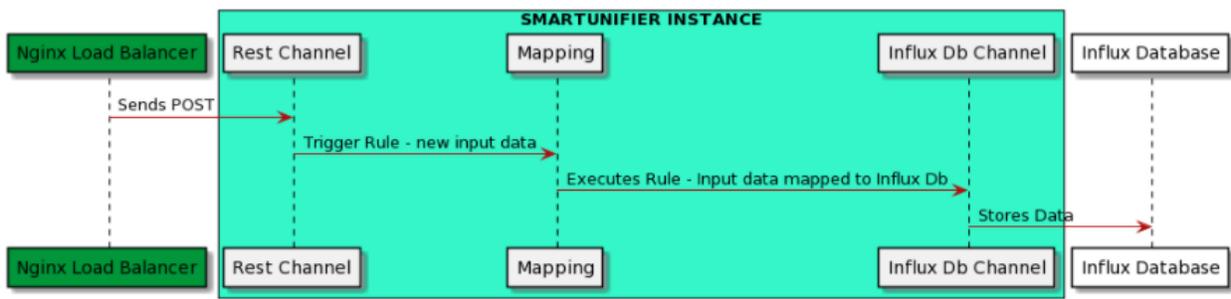
The following table shows the SMARTUNIFIER artefacts that are used to create this demo:

Type	Name	Description
Information Mod-els	InfluxDb	Stores data from the Rest Server on InfluxDb
	RestData	Represents the Rest Server structure
Communication Channels	InfluxDBChannel	Is used to transmit data from the Rest Server to InfluxDb
	RestChannel	Represent the Rest Server communication protocol
Mappings	RestToInflux	Defines when and how to extract data from the Rest Server and store it on the InfluxDb
Device Types	RestToInfluxDe-viceType	Represents the template for the SMARTUNIFIER Instance
Instances	RestToInfluxIn-stance_1	Represents the configuration for the runnable application
	RestToInfluxIn-stance_2	

1.5 Simulation Process Flow Diagram



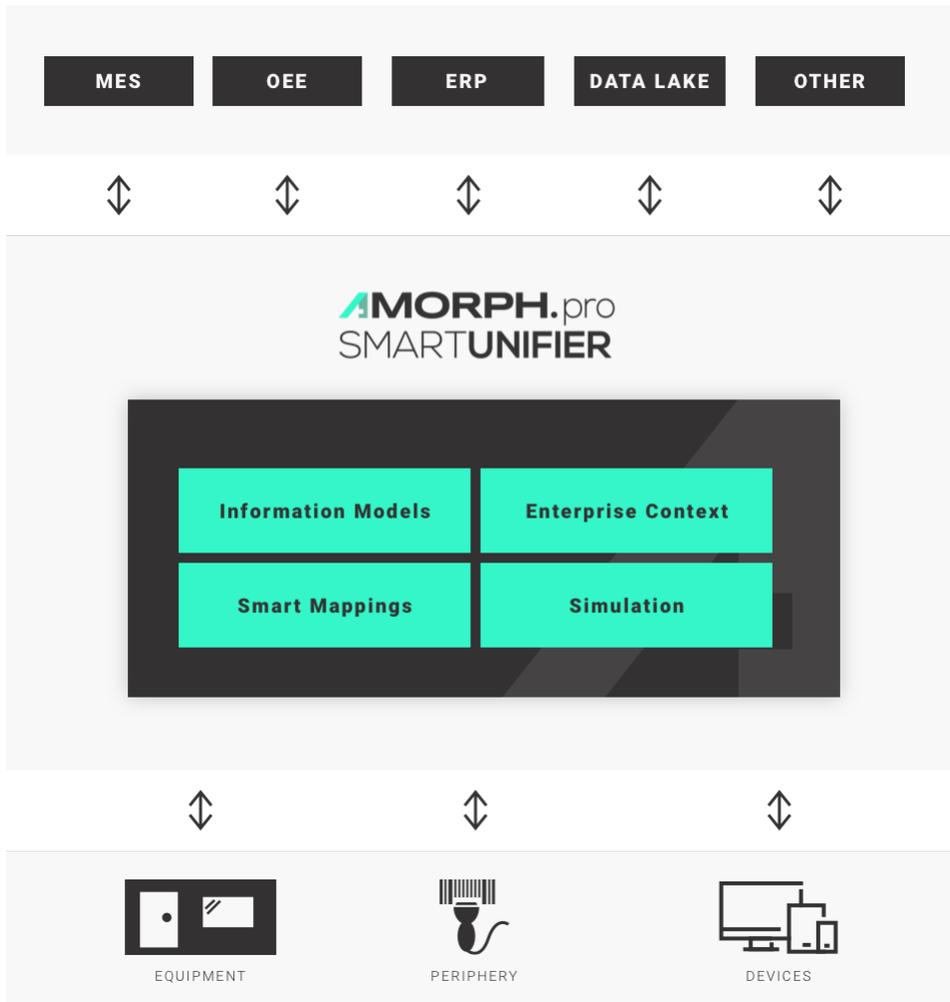
1.6 SMARTUNIFIER Instance Process Flow Diagram



WHAT IS SMARTUNIFIER

SMARTUNIFIER represents a powerful but very easy to use decentralized industrial connectivity platform for interconnecting all industrial devices and IT systems including equipment, peripheral devices, sensors/actors, MES, ERP as well as cloud-based IT systems.

SMARTUNIFIER is the tool of choice for transforming data into real value and for providing seamless IT interconnectivity within production facilities.



WHAT DOES SMARTUNIFIER DO

- **SMARTUNIFIER** provides an easy way to collect data from any Data Source and is able to transmit this data to any Data Target.
- Data Sources and Data Targets (commonly referred to as Communication Partners) in this respect may be any piece of equipment, device or IT system, communicating typically via cable or Wi-Fi and using a specific protocol like e.g., OPC-UA, file-based, database, message bus.
- With **SMARTUNIFIER** several Communication Partners can be connected simultaneously.
- With **SMARTUNIFIER** it is possible to communicate unidirectional or bidirectional to each Communication Partner. I.e., messages and events can be sent and received at the same time.
- **SMARTUNIFIER** is able to translate and transform data to any format and protocol that is required by a certain Data Target. This includes different pre-configured protocols and formats, e.g., OPC-UA, file-based, database, message bus, Webservices and many direct PLC connections. In case a certain protocol or format is currently not available it can be easily added to **SMARTUNIFIER**.
- By applying so called Information Models, **SMARTUNIFIER** enables the same view to data regardless of the protocol or format being used to physically connect an equipment, device or IT system.
- A big advantage of **SMARTUNIFIER** is, that in many cases there is no need for coding when providing connectivity between different Communication Partners. **SMARTUNIFIER** Mappings enable users to assign data sources to data targets via drag and drop.

SYSTEM REQUIREMENTS

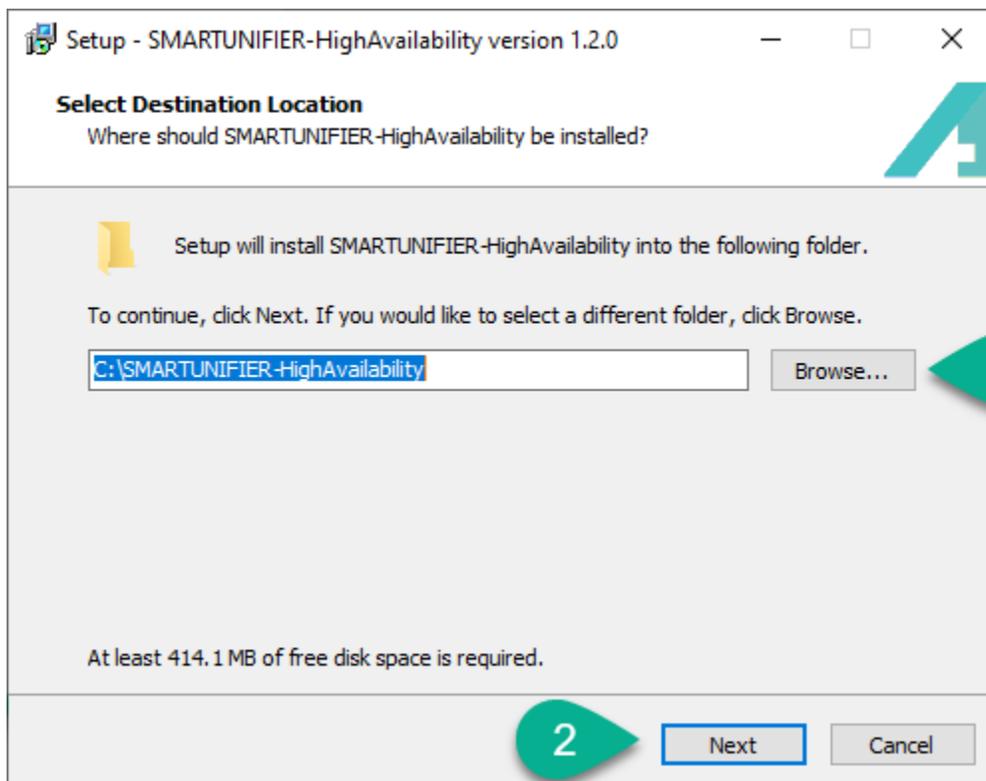
Minimum requirements for running the SMARTUNIFIER Manager

- **Computer and Processor:** 1 GHz or faster, x86-bit- or x64-bit-processor.
- **Memory:** 512 MB RAM.
- **Hard Disk / SSD:** 1 GB free space.
- **Display PC (Engineering, Dashboard):** 1280 x 1024 Resolution.
- **Mobile Devices (Dashboard):** Apple iPhone 6 or higher, Android.
- **Operating System:** Windows 10, Windows 8, Windows 7, Windows Server 2016, Windows Server 2012 R2, Windows Server 2012, Linux, MacOS - For an optimal user experience always use the newest version of the operating system.
- **Browser:** Latest version of Chrome, Microsoft Edge/Internet Explorer, Firefox.
- **Other:** Latest version of Docker Daemon (including Docker-compose). For more details follow the on-screen instructions from <https://docs.docker.com/compose/install/>.

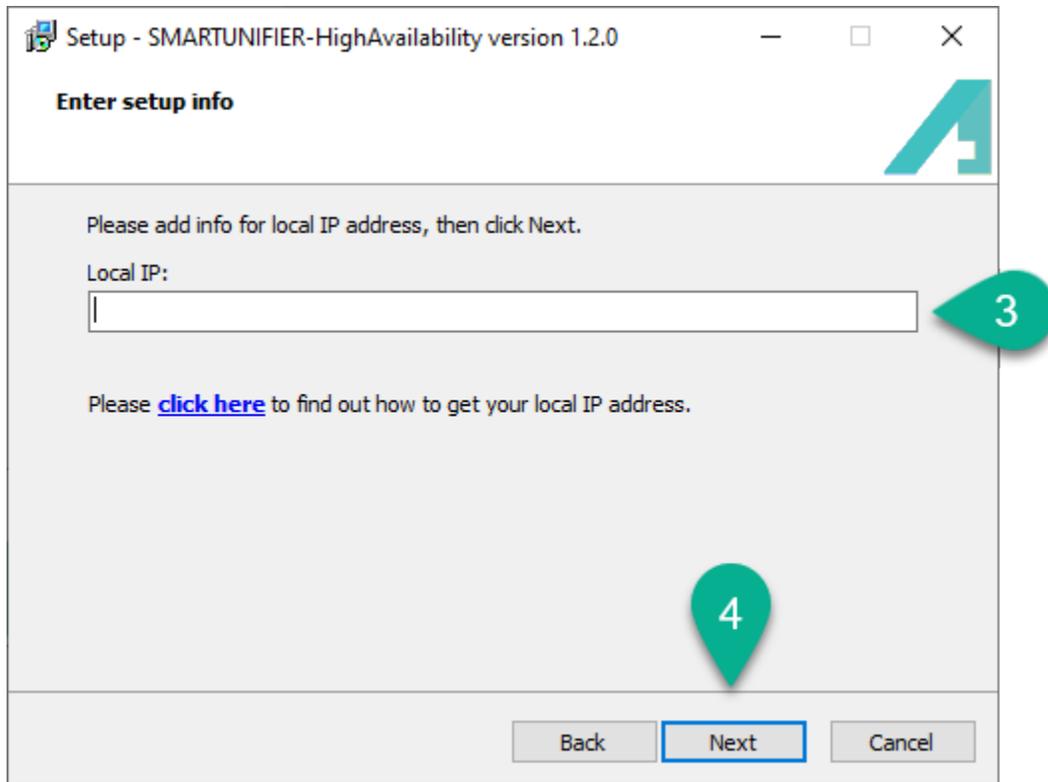
WINDOWS

5.1 Step 1 - Install the SMARTUNIFIER and the Docker Components:

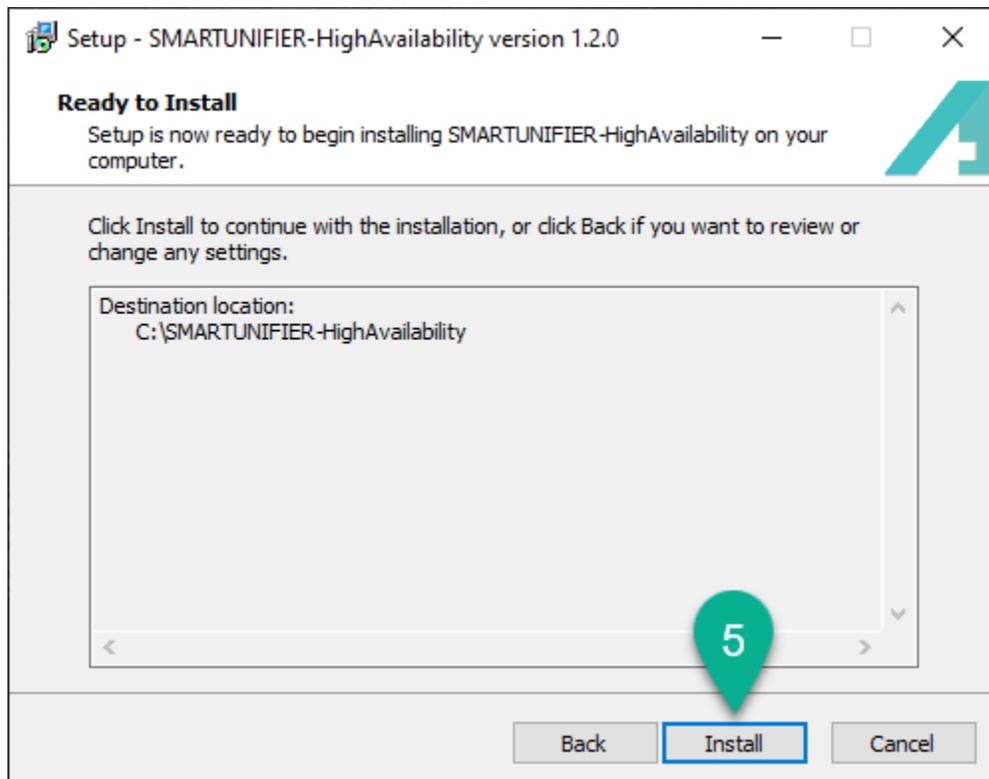
- Move the installation package to a suitable location.
- Open “Docker Desktop” application.
- Run the .exe file to start the setup.
- Click on the “Browse” button (1) to change the location of the installation.
- Select the “Next” button (2) to continue.



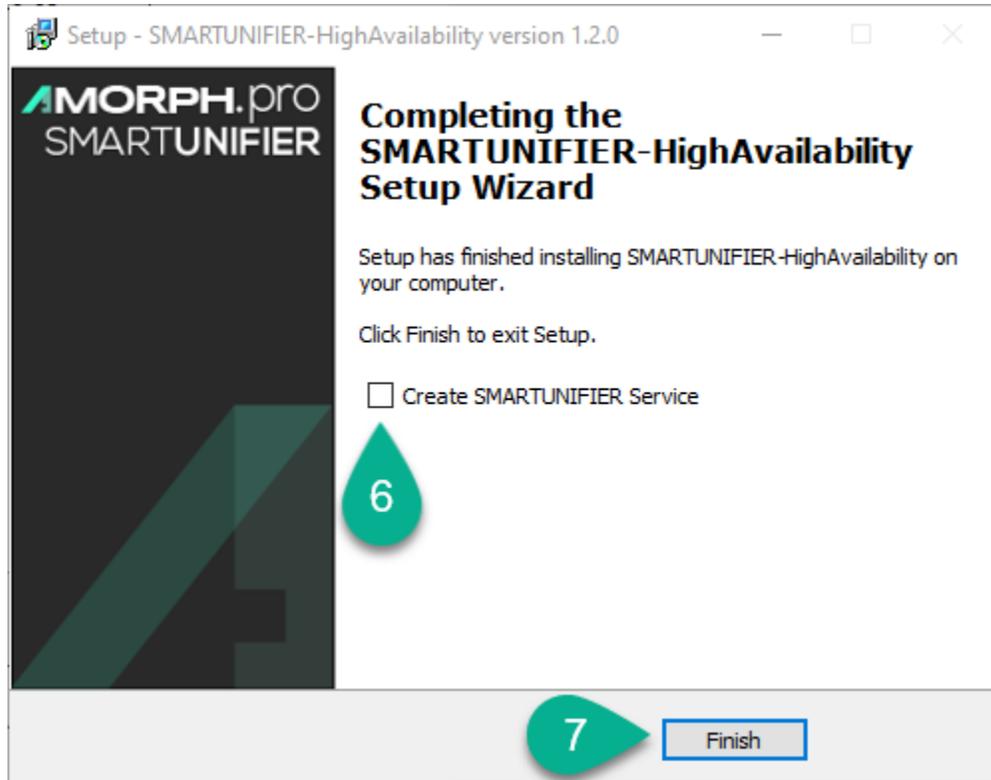
- Enter the local IP address (3). Select the “Next” button (4) to continue.



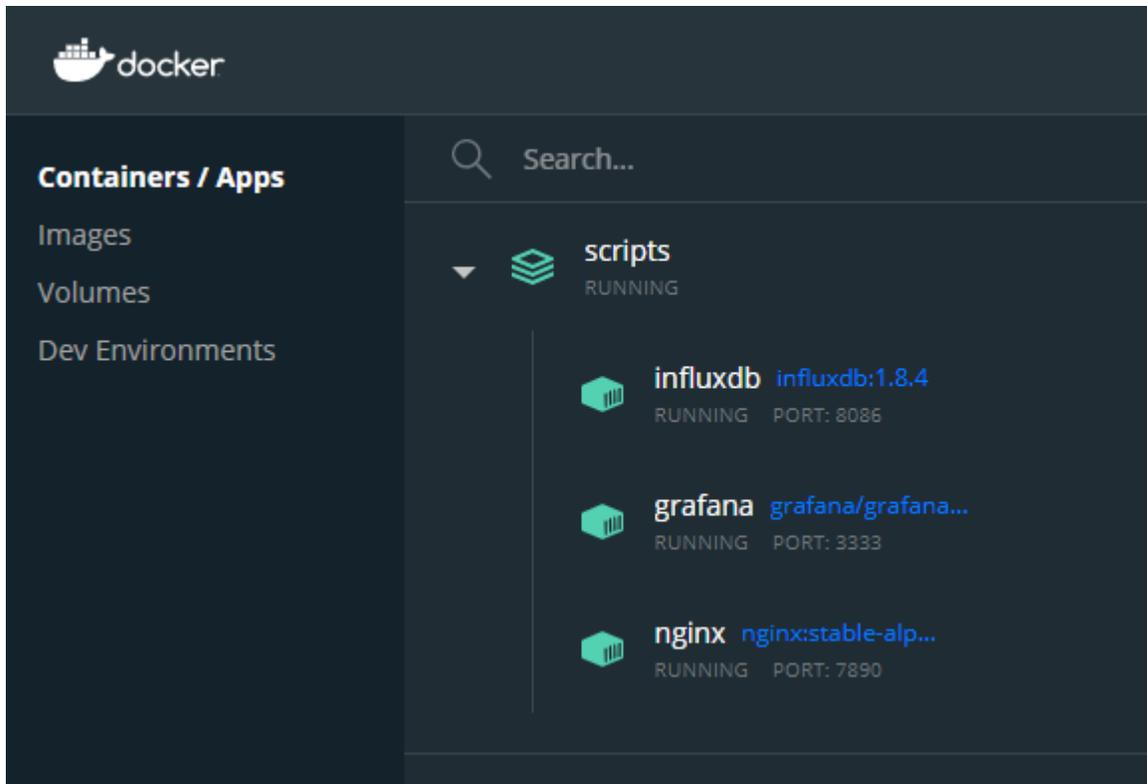
- Click on the “Install” button (5) to start the installation.



- Check the box (6) to create SMARTUNIFIER Service (optional).



- Select the “Finish” button (7) to finalize installing the SMARTUNIFIER. The console will open and the extraction of the Docker components starts.
- After the console is closed, the Docker components are installed in a few seconds:
 - influxdb
 - grafana
 - nginx



5.2 Deploy Components Manually

The SMARTUNIFIER Service can also be created manually. From the **SMARTUNIFIER-HighAvailability** folder (install_location/SMARTUNIFIER-HighAvailability) run the console (CMD) as administrator and execute:

```
create_service.bat
```

If a Docker container is deleted, it can be redeployed. From the **scripts** folder (install_location/SMARTUNIFIER-HighAvailability/scripts) open the console (CMD) and execute:

- to deploy InfluxDb container:

```
deploy.bat influxdb
```

- to deploy Grafana container:

```
deploy.bat grafana
```

- to deploy Nginx container:

```
deploy.bat nginx
```

- to deploy all components:

```
deploy.bat
```

5.3 Uninstalling a container

To remove the SMARTUNIFIER Service, from the **SMARTUNIFIER-HighAvailability** folder (install_location/SMARTUNIFIER-HighAvailability) run the console (CMD) as administrator and execute:

```
remove_service.bat
```

To undeploy a docker container, from the **scripts** folder (install_location/SMARTUNIFIER-HighAvailability/scripts) open the console(CMD) and execute:

- to remove InfluxDb container:

```
cleanup.bat influxdb
```

- to remove Grafana container:

```
cleanup.bat grafana
```

- to remove Nginx container:

```
cleanup.bat nginx
```

- to remove all containers:

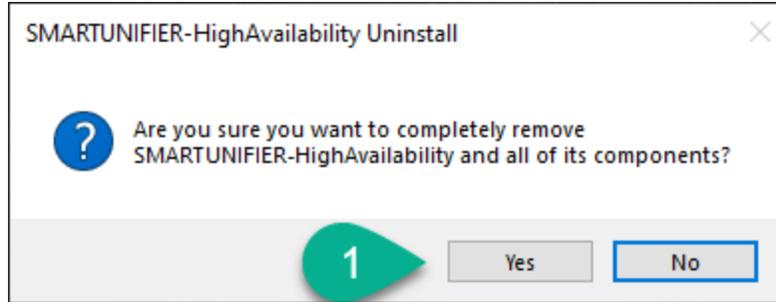
```
cleanup.bat
```

Note: If the user needs to connect with a different local IP, first undeploy and redeploy the docker containers and in the end input the new local IP.

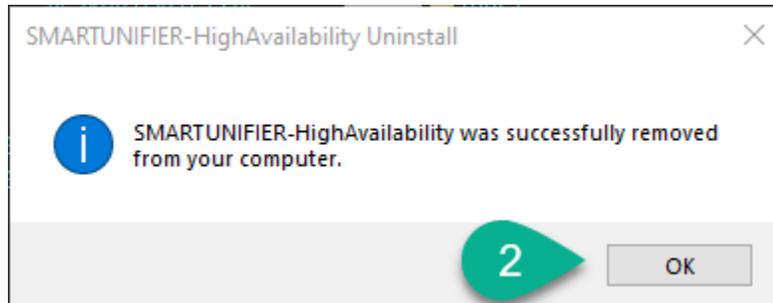
5.4 Uninstalling All

Follow the steps below to uninstall all the Demonstrator components (folders, files, Docker components):

- Make sure the Demonstrator Instance is **NOT** running.
- Make sure the “Docker Desktop” application **IS** running.
- Make sure the **SMARTUNIFIER-HighAvailability** folder (install_location/SMARTUNIFIER-HighAvailability) is **NOT** opened by any application.
- There are two options to uninstall the Demonstrator:
 1. Using Windows System settings section:
 - Go to “Add or remove programs” and uninstall SMARTUNIFIER-HighAvailability application.
 2. Run the **unins000.exe** file from the “SMARTUNIFIER-HighAvailability” folder.
 - Select the “Yes” button (1) to confirm.



- Select the “OK” button (2) to finish.



All the Demonstrator components are removed.

5.5 Step 2 - Running the SMARTUNIFIER

SMARTUNIFIER can be started as an application or as a service.

5.6 Running SMARTUNIFIER as an Application

- If SMARTUNIFIER was not installed as a service, execute the **UnifierManager.bat** script located in the installation folder. Afterwards the SMARTUNIFIER Manager Console appears on the screen.

```

UnifierManager - C:\SMARTUNIFIER-HighAvailability\bin\adaptermanagerweb.bat
ys.unifier.channel:SFTP file writer (XML),Some(ExternalDescriptor()) already exists
2021-07-09 12:33:34,878 - [info] - c.a.u.m.c.ChannelTypeManager - Channel type ArtifactCreateInfo(1.0.0,Some(com.amorphs
ys.unifier.channel:SFTP file writer (CSV),Some(ExternalDescriptor())) already exists
2021-07-09 12:33:35,099 - [info] - c.a.u.m.c.ChannelTypeManager - Channel type ArtifactCreateInfo(1.0.0,Some(com.amorphs
ys.unifier.channel:MQTT (JSON),Some(ExternalDescriptor())) already exists
2021-07-09 12:33:35,320 - [info] - c.a.u.m.c.ChannelTypeManager - Channel type ArtifactCreateInfo(1.0.0,Some(com.amorphs
ys.unifier.channel:MQTT (XML),Some(ExternalDescriptor())) already exists
2021-07-09 12:33:35,539 - [info] - c.a.u.m.c.ChannelTypeManager - Channel type ArtifactCreateInfo(1.0.0,Some(com.amorphs
ys.unifier.channel:MQTT (CSV),Some(ExternalDescriptor())) already exists
2021-07-09 12:33:35,763 - [info] - c.a.u.m.c.ChannelTypeManager - Channel type ArtifactCreateInfo(1.0.0,Some(com.amorphs
ys.unifier.channel:File tailer (CSV),Some(ExternalDescriptor())) already exists
2021-07-09 12:33:35,983 - [info] - c.a.u.m.c.ChannelTypeManager - Channel type ArtifactCreateInfo(1.0.0,Some(com.amorphs
ys.unifier.channel:File reader (JSON),Some(ExternalDescriptor())) already exists
2021-07-09 12:33:36,200 - [info] - c.a.u.m.c.ChannelTypeManager - Channel type ArtifactCreateInfo(1.0.0,Some(com.amorphs
ys.unifier.channel:File reader (XML),Some(ExternalDescriptor())) already exists
2021-07-09 12:33:36,420 - [info] - c.a.u.m.c.ChannelTypeManager - Channel type ArtifactCreateInfo(1.0.0,Some(com.amorphs
ys.unifier.channel:File reader (CSV),Some(ExternalDescriptor())) already exists
2021-07-09 12:33:36,420 - [info] - m.ApplLifecycle - Application started
2021-07-09 12:33:36,441 - [warn] - p.a.h.HttpConfiguration -
Your secret key is very short, and may be vulnerable to dictionary attacks. Your application may not be secure.
The application secret should ideally be 32 bytes of completely random input, encoded in base64.
To set the application secret, please read http://playframework.com/documentation/latest/ApplicationSecret

2021-07-09 12:33:36,651 - [info] - a.e.s.Slf4jLogger - Slf4jLogger started
2021-07-09 12:33:37,165 - [warn] - p.f.h.SecurityHeadersConfig - play.filters.headers.contentSecurityPolicy is deprecate
d in 2.7.0. Please use play.filters.csp.CSPFilter instead.
2021-07-09 12:33:37,701 - [info] - o.h.v.i.u.Version - HV000001: Hibernate Validator 6.1.7.Final
2021-07-09 12:33:37,890 - [info] - play.api.Play - Application started (Prod) (no global state)
2021-07-09 12:33:38,304 - [info] - p.c.s.AkkaHttpServer - Listening for HTTP on /0:0:0:0:0:0:0:0:9000

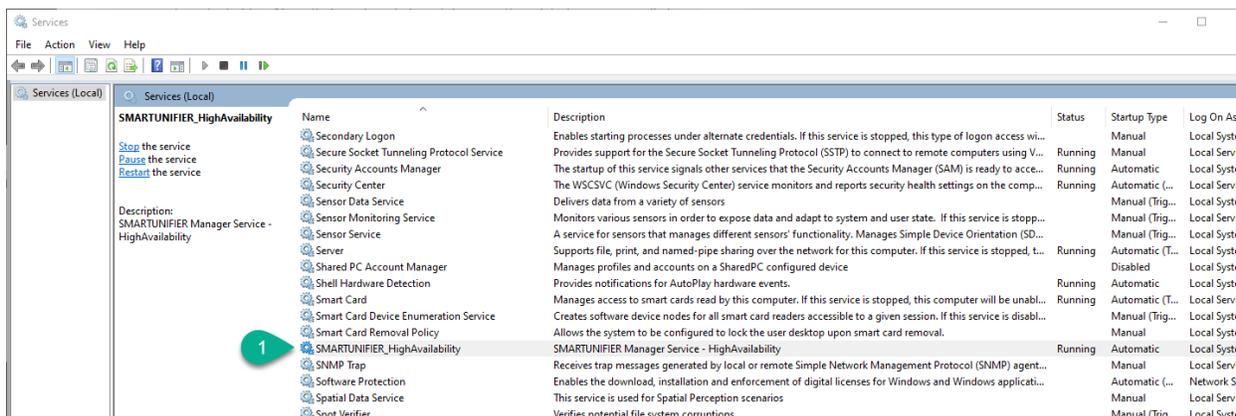
```

- After successfully starting up the SMARTUNIFIER Manager, it can be accessed by opening an Internet Browser (e.g., Chrome or Firefox) and navigating to <http://localhost:9000>. Use the administrator credentials to login:
- Username: **admin**
- Password: **admin**

Note: The console is for information purposes only. It can be moved to any suitable location on your screen or it can be hidden. Nevertheless, do not close it, because the related processes will also be terminated.

5.7 Running SMARTUNIFIER as a Service

- If SMARTUNIFIER was installed as a service, the service is already running.
- To check open “Services” in Windows (press the “Windows” button and type “services”) and search “SMARTUNIFIER” from the list (1).



- Open an Internet Browser (e.g., Chrome or Firefox) and navigating to <http://localhost:9000>. Use the administrator credentials to login:
- Username: **admin**
- Password: **admin**

6.1 Step 1 - Install SMARTUNIFIER and Docker Components:

- Move the installation package to a suitable location. Make sure the path to the directory does not include any white spaces!
- Extract the **.tar.gz**-archive.

```
tar -xvzf SMARTUNIFIER-Manager-linux-x64.tar.gz
```

- To change the deploy file properties and to convert it's format to Unix, open the terminal from the **scripts** folder (install_location/SMARTUNIFIER-HighAvailability/scripts) and execute the following commands:

```
chmod 775 deploy.sh
```

```
dos2unix *.sh
```

- To deploy the Docker components execute the following commands (terminal opened from the **scripts** folder):

```
bash deploy.sh demonstrator
```

- During the Docker components deploy, the input of the local IP address is required. To check how to get the local IP go to <https://support.microsoft.com/en-us/windows/find-your-ip-address-f21a9bbc-c582-55cd-35e0-73431160a1b9>
- After entering the local IP address, the Docker components are deployed in a few seconds:
 - influxdb
 - grafana
 - nginx

6.2 Step 2 - Running SMARTUNIFIER:

- Start the SMARTUNIFIER Manager by executing in a terminal the following commands:

```
chmod +x UnifierManager.sh
```

```
./UnifierManager.sh
```

- After successfully starting the SMARTUNIFIER Manager, it can be accessed by opening an Internet Browser (e.g., Chrome or Firefox) and navigating to <http://localhost:9000>. Use the administrator credentials to login:
 - Username: **admin**
 - Password: **admin**

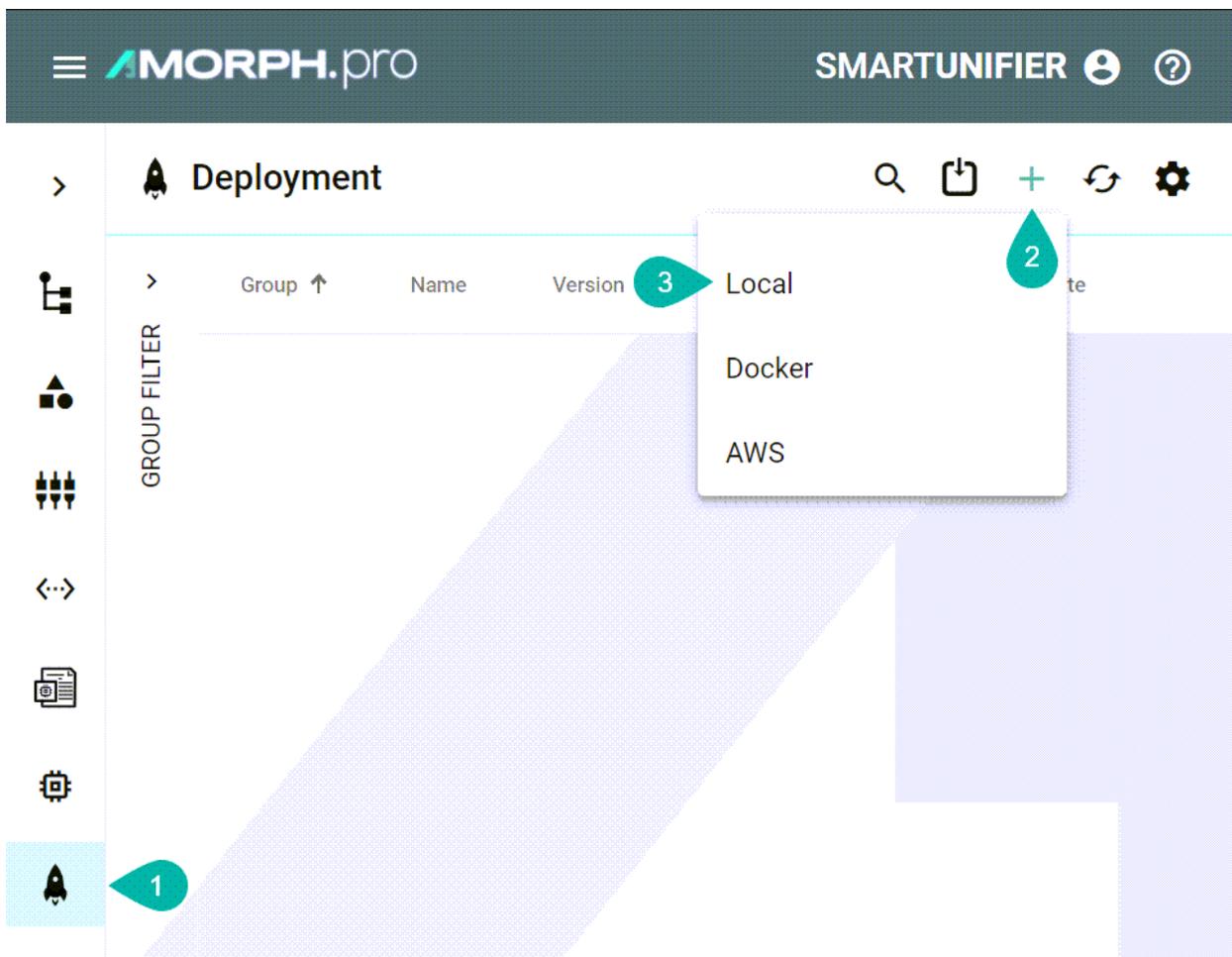
Note: The console is for information purposes only. It can be moved to any suitable location on your screen or it can be hidden. Nevertheless, do not close it, because the related processes will also be terminated.

RUN THE INSTANCE

The communication between the Rest Server and the Influx DB is facilitated by two SMARTUNIFIER Instances.

First add each Instance to a local deployment:

- Open “Deployments” section (1).
- Click on the “Add” button (2).
- Select the “Local” option (3).



- Select the “Instance” from the dropdown (4).

- Select “Info” from the “Log File Configuration” dropdown (5).
- Check the box for “Enable Encryption” (6) to have all the credentials encrypted in the configuration files.
- Check the box for “Protected” (7) and a confirmation will be required for each Instance action (e.g., deploy, undeploy, start, stop).

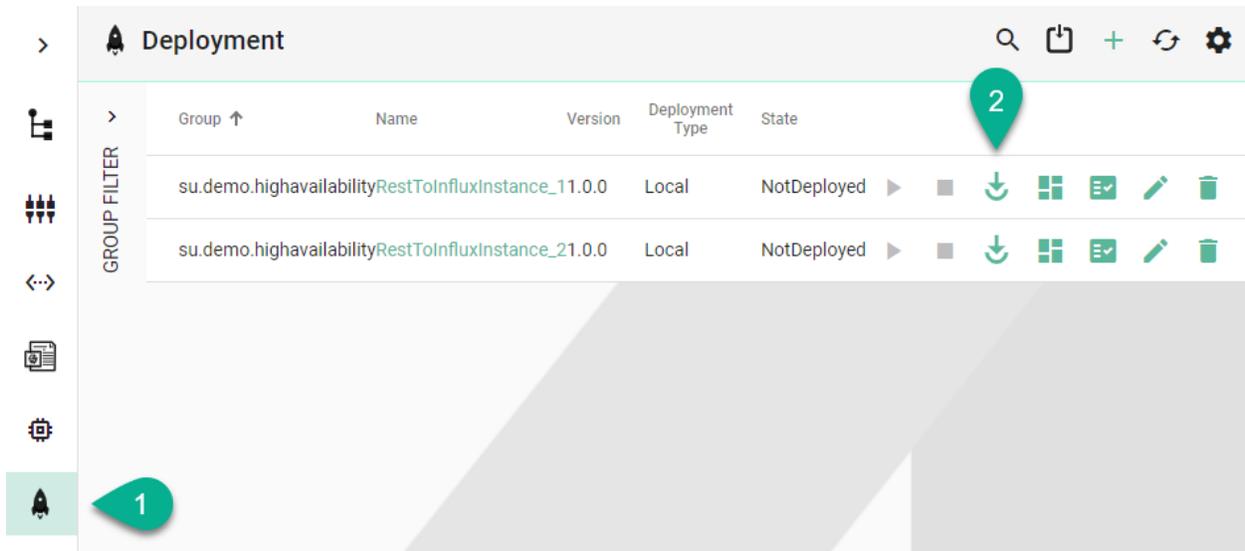
- Click the “Save and Close” button (8).

The first Instance is added, follow the steps above to add the second Instance.

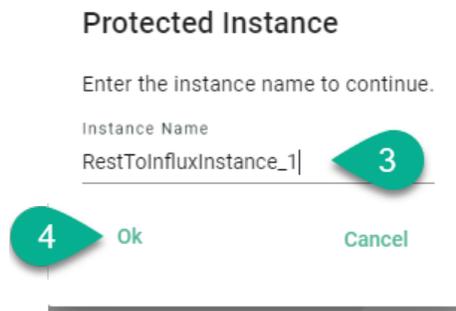
Group	Name	Version	Deployment Type	State
su.demo.highavailability	RestToInfluxInstance_1	1.0.0	Local	NotDeployed
su.demo.highavailability	RestToInfluxInstance_2	1.0.0	Local	NotDeployed

Then run each Instance:

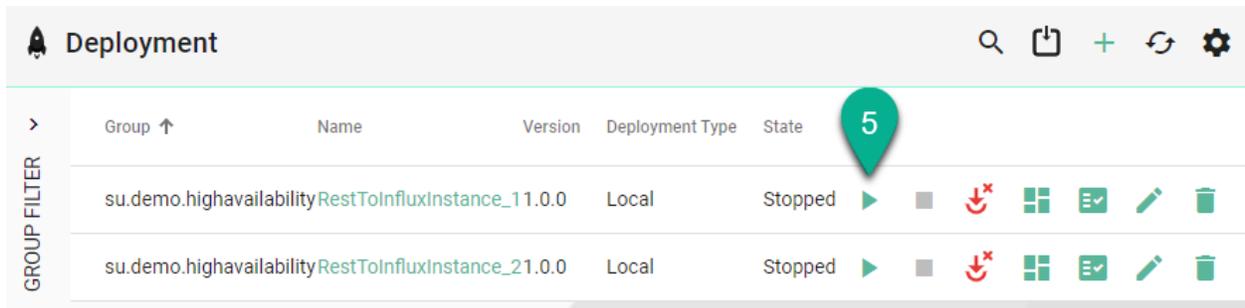
- Open the “Deployments” section (1).
- Click the “Deploy” button (2) for each Instance.



- Type the Instance name (3) to confirm the action and click the “Ok” button (4).



- Click the “Start” button (5) to run each Instance.



- Type the Instance name (6) to confirm the action and click the “Ok” button (7).

Protected Instance

Enter the instance name to continue.

Instance Name

RestToInfluxInstance_1|

6

7

Ok

Cancel

- The Instances are running (8).

Deployment

Group ↑	Name	Version	Deployment Type	State	
su.demo.highavailability	RestToInfluxInstance_1	1.0.0	Local	Started	▶ ■ ⬇️ ⌘ ✓ ✎ 🗑️
su.demo.highavailability	RestToInfluxInstance_2	1.0.0	Local	Started	▶ ■ ⬇️ ⌘ ✓ ✎ 🗑️

To stop an Instance click on the “Stop” button (9) as seen below.

Deployment

Group ↑	Name	Version	Deployment Type	State	
su.demo.highavailability	RestToInfluxInstance_1	1.0.0	Local	Started	▶ ■ ⬇️ ⌘ ✓ ✎ 🗑️
su.demo.highavailability	RestToInfluxInstance_2	1.0.0	Local	Started	▶ ■ ⬇️ ⌘ ✓ ✎ 🗑️

- Type the Instance name (10) to confirm the action and click the “Ok” button (11).

Protected Instance

Enter the instance name to continue.

Instance Name

RestToInfluxInstance_1|

10

11

Ok

Cancel

GRAFANA

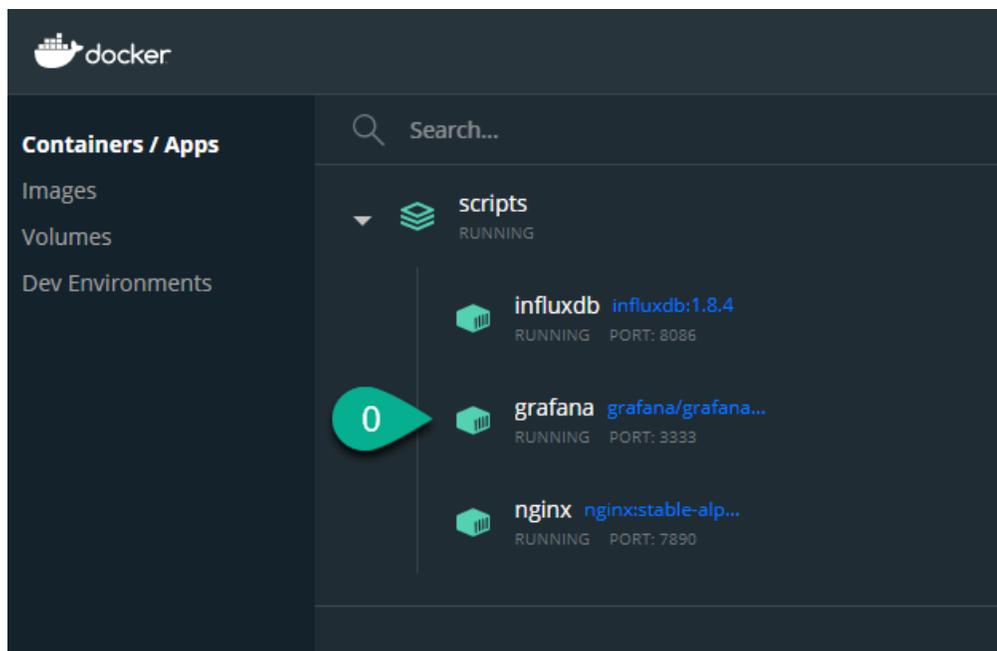
Grafana is an open source analytics and interactive visualization web application. It provides charts, graphs and alerts for the web when connected to the supported data sources.

In the current demonstrator, Grafana is used to display the key parameters sent by the Rest Server.

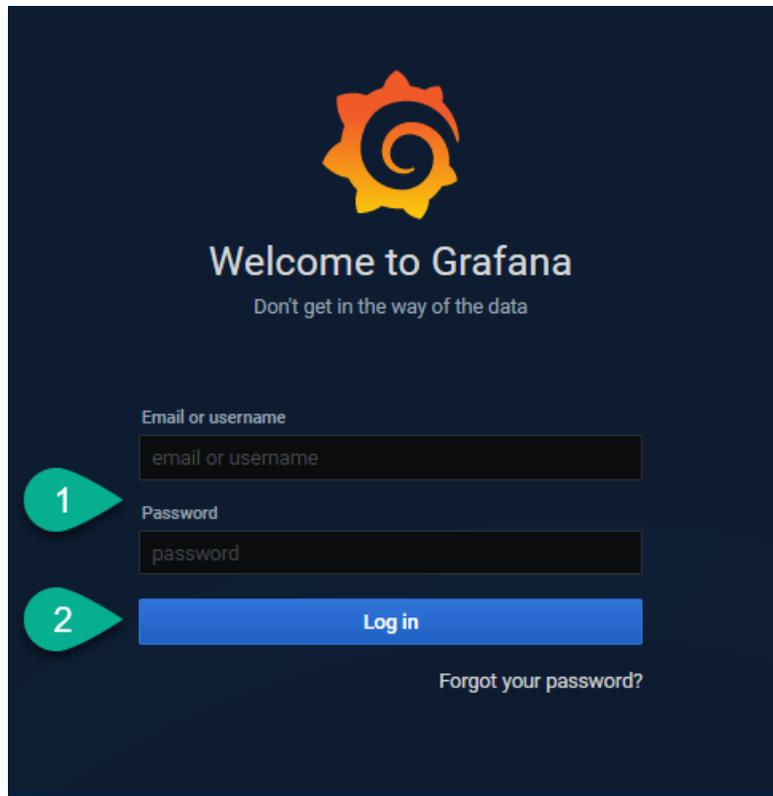
Access Grafana

Follow the steps bellow to access Grafana:

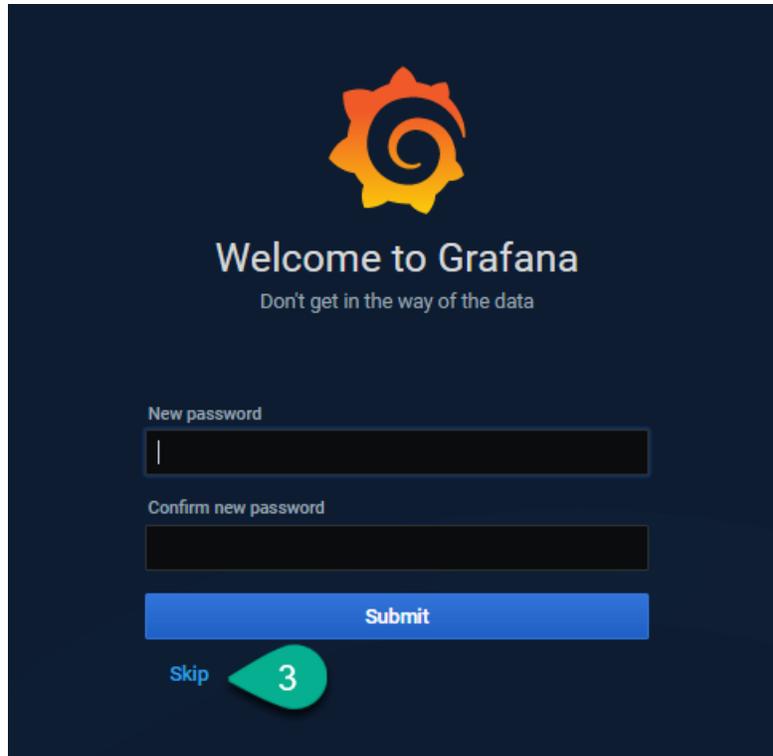
- Grafana Docker container must be running.



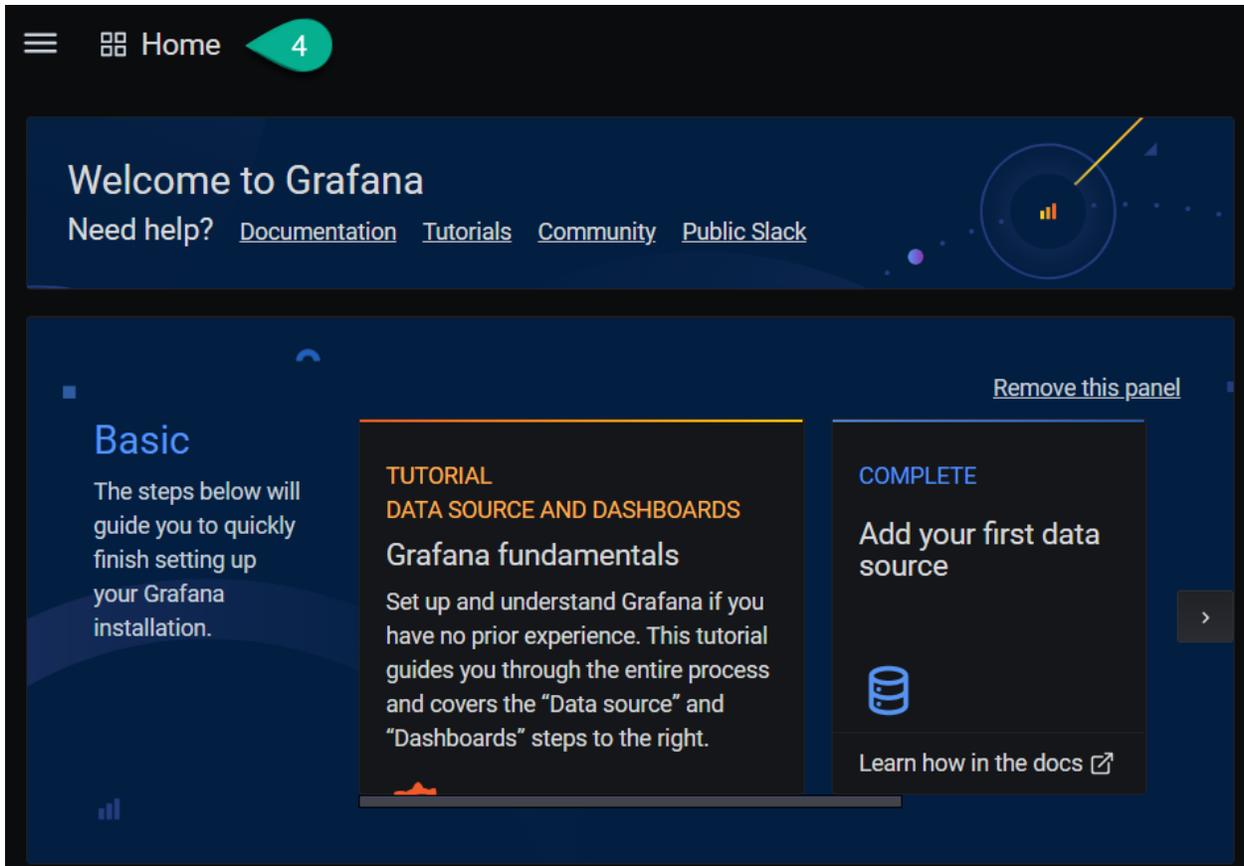
- Open an Internet Browser (e.g., Chrome or Firefox) and navigate to <http://localhost:3333/>. For “User-name” and “Password” use **admin** (1). Select the “Log in” button (2).



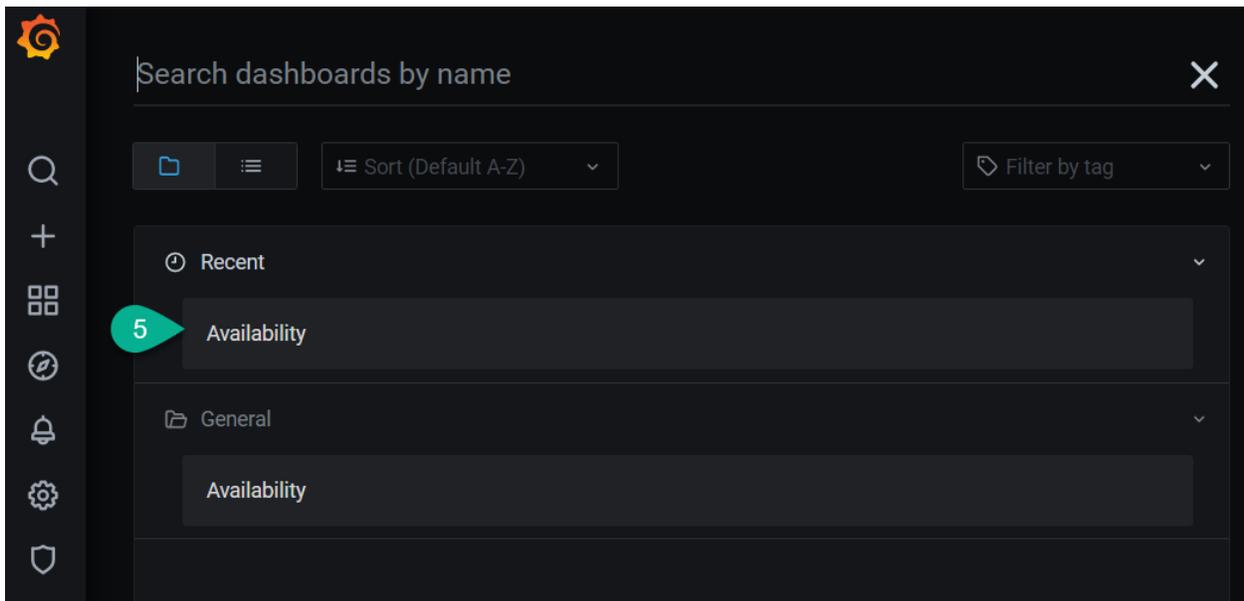
- Change the "Password" or just select the "Skip" button (3).



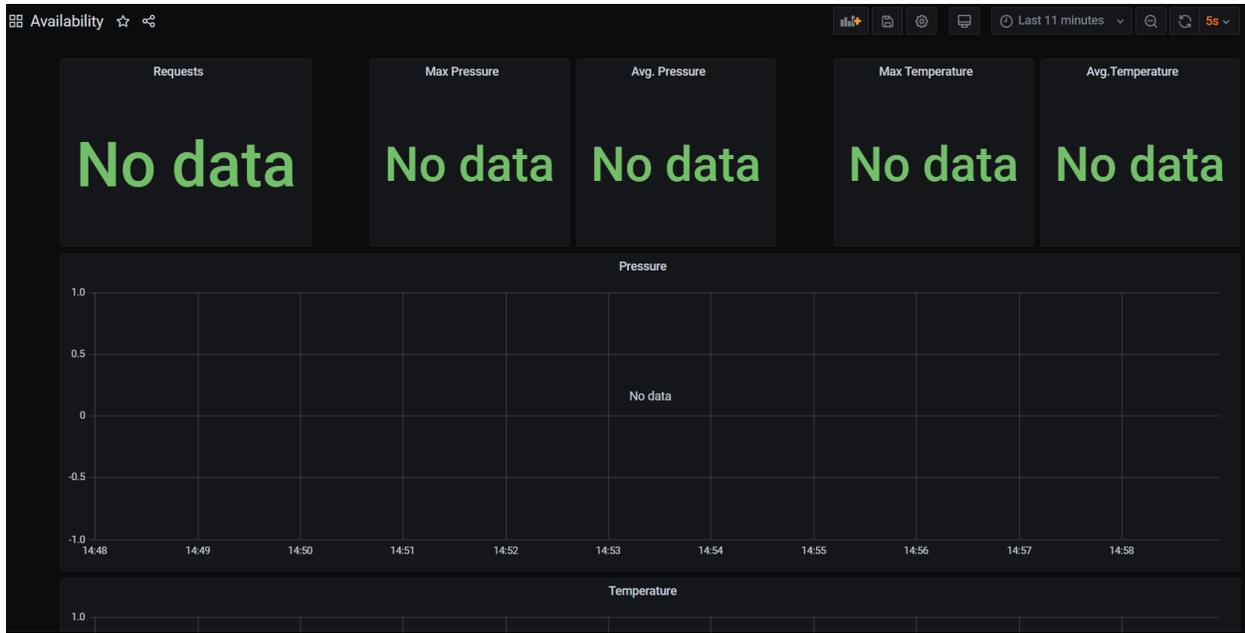
- Select the "Home" button (4).



- Select "Availability" options (5).



- The Grafana Availability Dashboard is visible.



START THE SIMULATION

The Demonstrator use cases the seamless connection between a production equipment and an InfluxDb, connection facilitated by the SMARTUNIFIER. Two Instances are configured with a load balancer to provide the connection in high availability mode.

To run the simulation, two steps are required:

- Generate the input data - random values.
- Test the High Availability - by stopping one of the Instances.

9.1 Generate the Input Data

To simulate the data provided by a production equipment, the input data is generated by the `send_data` script, located in the `scripts` folder (`install_location/SMARTUNIFIER-HighAvailability/scripts`).

Run the script to generate random values for two parameters: pressure and temperature.

```
C:\WINDOWS\system32\cmd.exe
ParsedHtml      :
RawContentLength : 4

34 238
500 * 26 = 13000
StatusCode      : 200
StatusDescription : OK
Content         : {}

RawContent      : HTTP/1.1 200 OK
                  Connection: keep-alive
                  Content-Length: 4
                  Content-Type: application/json
                  Date: Tue, 13 Jul 2021 13:30:23 GMT
                  Server: nginx/1.20.1

                  {}

Forms           :
Headers         : {[Connection, keep-alive], [Content-Length, 4], [Content-Type, application/json], [Date, Tue, 13
                  Jul 2021 13:30:23 GMT]...}
Images          : {}
InputFields     : {}
Links           : {}
ParsedHtml      :
RawContentLength : 4

27 223
500 * 27 = 13500
```

Note: For Linux, to generate the input data run the below command:

```
bash send_data.sh
```

The Rest Server picks up the new generated values and sends a post that is stored in the Influx database, using the SMARTUNIFIER. The overall process can be viewed on the Grafana dashboard.



9.2 Test the High Availability

The SMARTUNIFIER uses two Instances configured with a load balancer (Nginx). This means that if one of the two Instances is stopped, the load is handled by the other working Instance.

Stop one of the two Instances.

Deployment						🔍	📄	+	🔄	⚙️
>	Group ↑	Name	Version	Deployment Type	State					
GROUP FILTER	su.demo.highavailability	RestToInfluxInstance_2	1.0.0	Local	Stopped	0	▶	■	⬇️	🗑️
	su.demo.highavailability	RestToInfluxInstance_1	1.0.0	Local	Started		▶	■	⬇️	🗑️

When one Instance is stopped, the communication fails over to the other running Instance and all the data is sent to the receiver, as seen below.



The script stops to generate values when it reaches the cycle limit, configured at 500.

```

C:\WINDOWS\system32\cmd.exe
RawContentLength : 4

23 251
500 * 500 = 250000
StatusCode       : 200
StatusDescription: OK
Content          : {}

RawContent       : HTTP/1.1 200 OK
                  Connection: keep-alive
                  Content-Length: 4
                  Content-Type: application/json
                  Date: Tue, 13 Jul 2021 13:40:36 GMT
                  Server: nginx/1.20.1

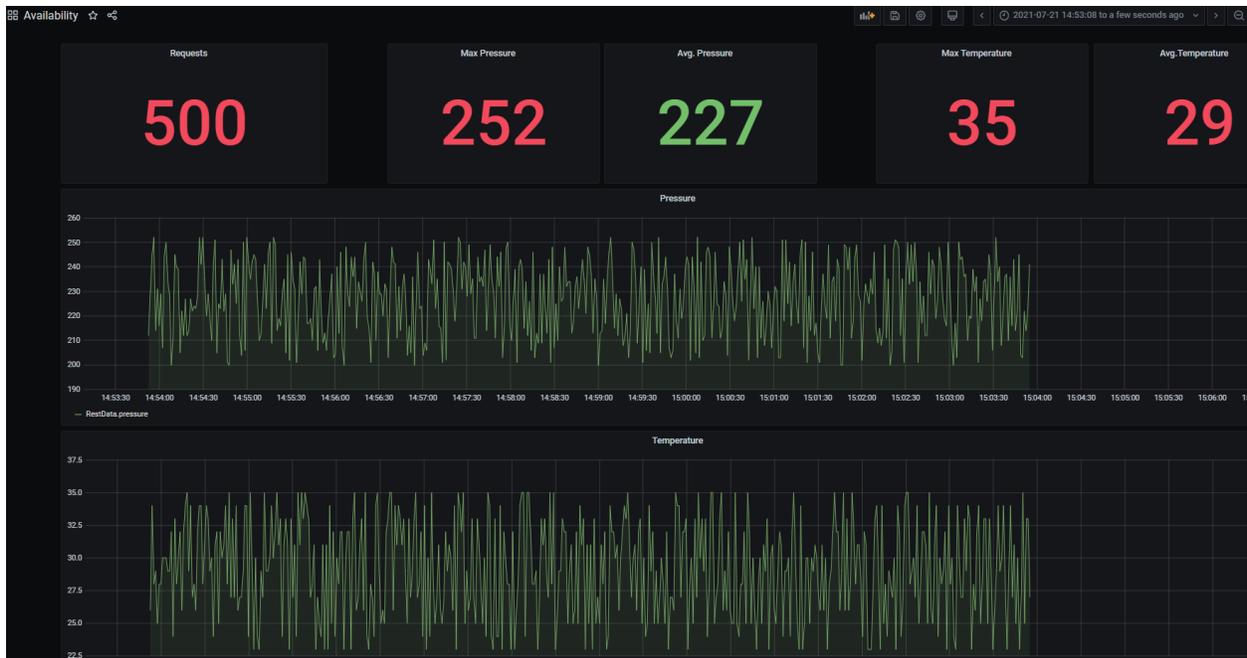
                  {}

Forms           :
Headers        : {[Connection, keep-alive], [Content-Length, 4], [Content-Type, application/json], [Date, Tue, 13
                  Jul 2021 13:40:36 GMT]...}
Images         : {}
InputFields    : {}
Links          : {}
ParsedHtml     :
RawContentLength : 4

33 237

PS C:\SMARTUNIFIER-HighAvailability\scripts>

```



INSTANCE SETUP

A **SMARTUNIFIER** Instance is a dynamically created application that can be deployed to any suitable IT resource (e.g., Equipment PC, Server, Cloud), and which provides the connectivity functionality configured. Therefore, a **SMARTUNIFIER** Instance uses one or multiple Mappings, selected Communication Channels and Information Models.

10.1 Information Models

Within the **SMARTUNIFIER** an Information Model describes the communication related data that is available for a device or IT system. One device or one IT system therefore is represented by one Information Model.

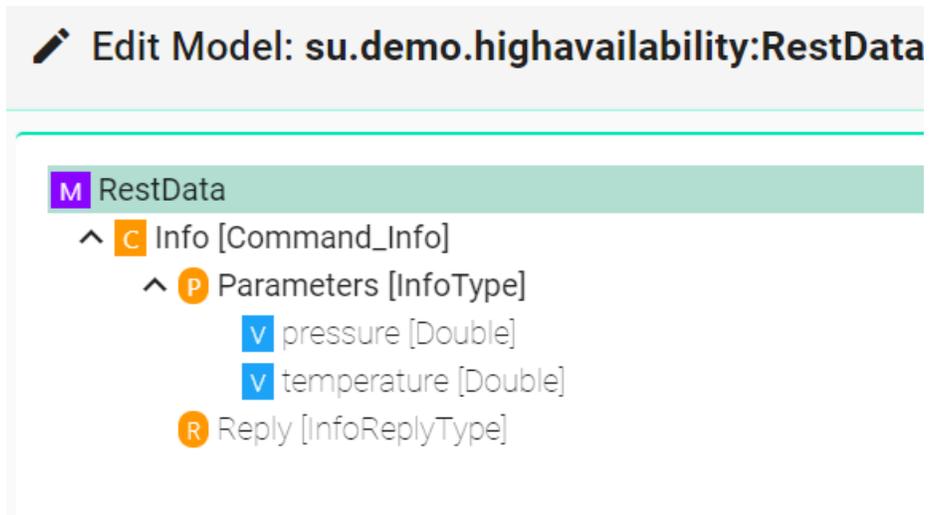
The Information Model perspective lists the information models currently configured within the **SMARTUNIFIER** Manager:

1. **RestData**
2. **InfluxDb**

Information Models	
Group ↑	Name
su.demo.highavailability	InfluxDb
su.demo.highavailability	RestData

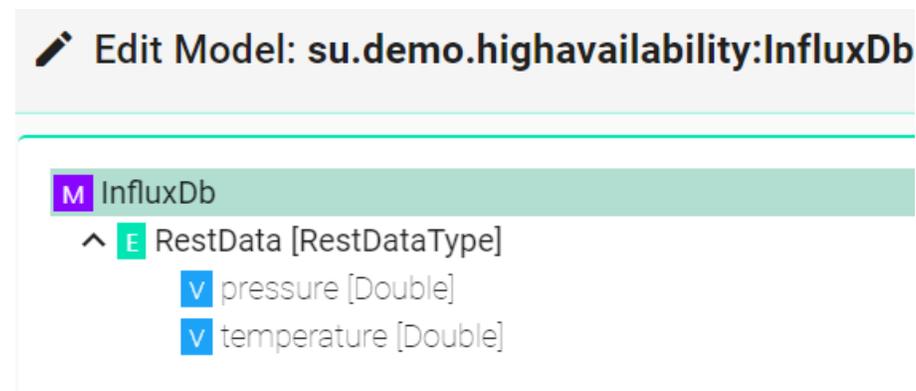
1. **RestData**

The RestData Information Model represents the Rest Server structure. It's structure is simple, containing two parameters, as seen below.



2. InfluxDb

The InfluxDb Information Model stores data from the Rest Server. The data provided by the Rest Server is stored using the SMARTUNIFIER in the Influx database and the overall process can be viewed on the Grafana dashboard. As seen below, the Model data structure matches the source data structure (Rest Server).



10.2 Mappings

The Mapping represents the SMARTUNIFIER component that defines when and how to exchange/transform data between two or multiple Information Models. In other words, it is acting as a translator between the different Information Models.

One Mapping consists of one or multiple Rules. A Rule contains a Trigger, which defines when the exchange/transformation takes place, and a list of actions that are defining how the exchange/transformation is done.

The Mapping perspective lists the currently configured Mapping within the SMARTUNIFIER Manager:

- **RestToInflux**

Group ↑	Name
su.demo.highavailability	RestToInflux

This Mapping defines when and how to process data from the Rest Server and store it on the InfluxDb.

The screenshot displays the configuration for a mapping rule named 'resttoddb'. The interface is divided into three main sections:

- Left Panel (Models):** Shows two models: 'db' and 'rest'. The 'db' model contains 'InfluxDb' with a 'RestData [RestDataType]' containing 'pressure [Double]' and 'temperature [Double]'. The 'rest' model contains 'Info [Command_Info]' with 'Parameters [InfoType]' containing 'pressure [Double]' and 'temperature [Double]', and a 'Reply [InfoReplyType]'.
- Right Panel (Rule Configuration):** Shows the rule configuration for 'resttoddb'. The 'Trigger' is set to 'rest/Info' (marked with a green callout '1'). The 'actions [Target <-> Source]' section shows two mappings (marked with green callouts '2' and '3'):

Target	Source
db/RestData/pressure [Double]	rest/Info/Parameters/pressure [Double]
db/RestData/temperature [Double]	rest/Info/Parameters/temperature [Double]

The trigger to send data is represented by new values for the Rest Server parameters: pressure and temperature (1). The Mapping is done one on one, the source (Rest Server) parameters (2) to the destination (Influx Db) parameters (3).