

HTN – Mein erstes Jahr



# HTN – Mein erstes Jahr

- Wie diese Community meine Arbeit beeinflusst.
- Auswirkungen - wer hat es gemerkt?
- Success Stories, keine one-man Show.
- Weshalb die HTN für mich ein Glücksfall ist.

# Merci, dass es dich gibt!

A word cloud centered around the name 'Jörg'. The words are arranged in a circular pattern around the central name. The words and their colors are: 'Mathias' (orange), 'HP' (blue), 'Markus' (blue), 'Denny' (green), 'Referenten' (green), 'Pizza' (orange), and 'wir' (orange).

Mathias  
HP  
Markus  
Jörg  
Denny  
Referenten  
Pizza  
wir

# Wie alles begann..



In short: Zufälle ohne Ende!

# HTN – Meine erste Session

18:30 Vortrag 1: "**Verwendung von Open-Source-Clients zur Nutzung von Multi-model Daten in SAP HANA**" - Mathias Kemeter



## Key takeaways:

- **Graphen**
- **Tools**
- **Zusammenhang zu SAP HANA**



**Mein Highlight:**

**Passt perfekt für uns!**

# Auswirkungen - wer hat es gemerkt?

Houston – Wir haben ein Problem!

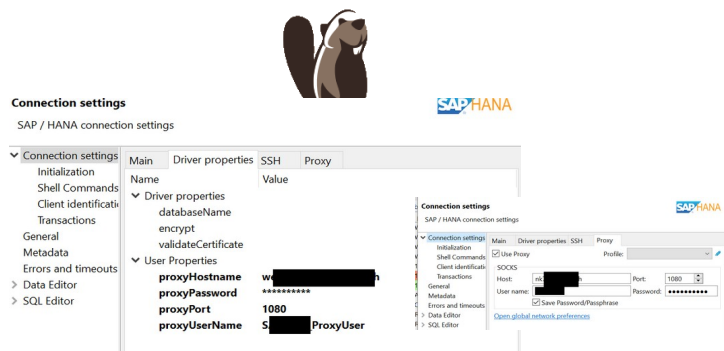
Kein Tool lief out-of-the-box.

Ursache: Webproxy

## Lösungen

Anpassung der Konfiguration

Codingerweiterungen

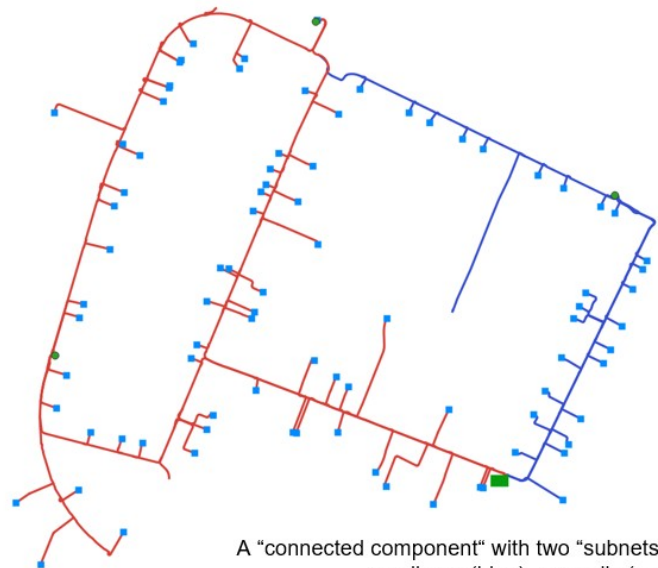


# Success Storie 1 - keine one-man Show

## POC & ISU Conference 2023, Basel

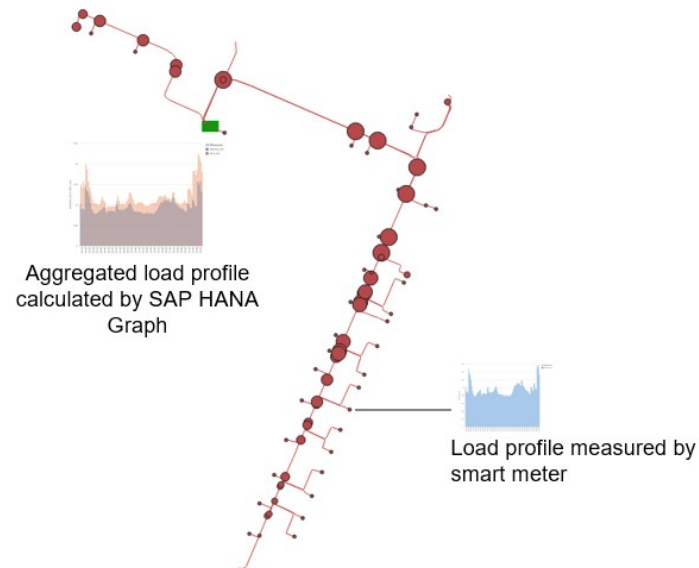
### Network Analysis Results

#### Network components/topology



A "connected component" with two "subnets", one linear (blue), on cyclic (red)

#### Aggregated load profiles



### Beteiligte:

- Markus
- Mathias
- Dirk
- TT





# Success Story 2 - keine one-man Show

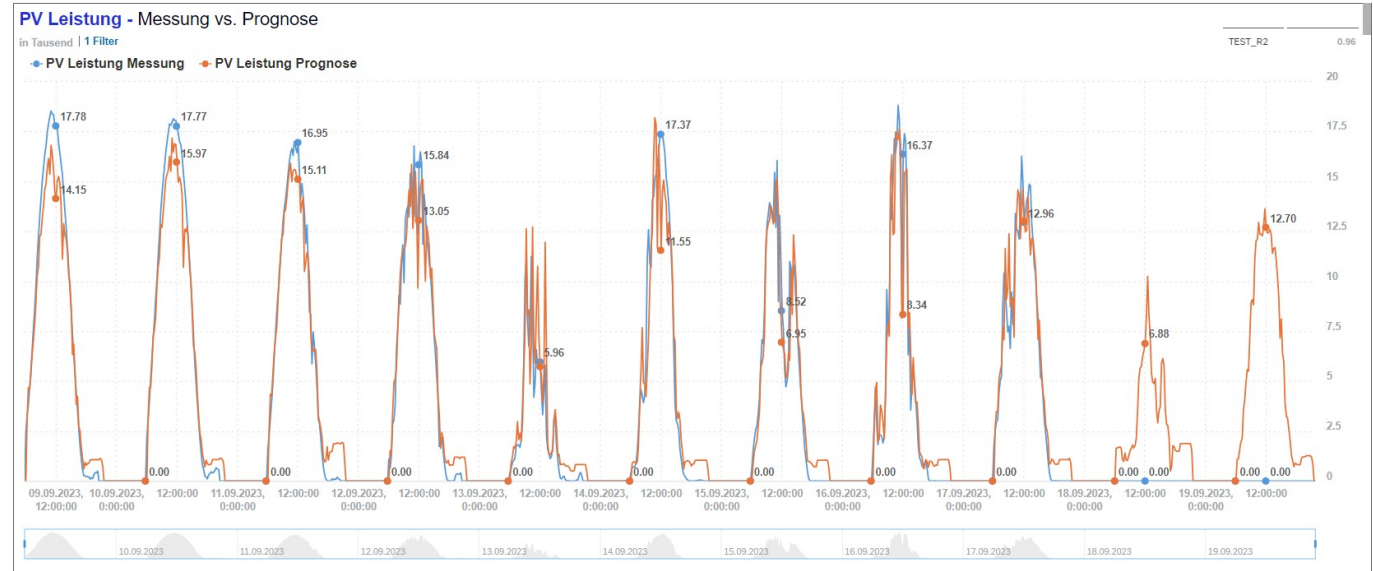
## POC zu PV-Stromproduktion

Beteiligte:

- Andreas
- Dirk
- TT



```
1
2
3
4 import os
5 import sys
6 import json
7 import hana_ml
8 import hana_ml.dataframe as dataframe
9
10 hana_encrypt = 'true'
11 hana_sslcertificate = 'false'
12
13 if os.getenv('VCAP_SERVICES'):
14     # hier muss immer "VCAP_SERVICES" verwendet werden für die BTP
15     # File is executed in Cloud Foundry
16     sys.stdout.write('Python executing in Cloud Foundry')
17
18     # Get SAP HANA login credentials from user-provided variable in CloudFoundry
19     hana_credentials_env = os.getenv('HANA_CRED')
20     hana_credentials = json.loads(hana_credentials_env)
21     hana_address = hana_credentials['address']
22     hana_port = hana_credentials['port']
23     hana_user = hana_credentials['user']
24     hana_password = hana_credentials['password']
25
26     ### Verbindung zu SAP Data Warehouse Cloud / SAP HANA Cloud
27
28     # Instantiate connection object
29     conn = dataframe.ConnectionContext(address = hana_address,
30                                     port = hana_port,
31                                     user = hana_user,
32                                     password = hana_password,
33                                     encrypt = hana_encrypt,
34                                     sslValidateCertificate = hana_sslcertificate
35                                     )
36     sys.stdout.write('\n Python executing in CF. \n')
37
38 else:
39     # File is executed locally
40
41     conn = dataframe.ConnectionContext(userkey='DATAPV',
42                                     proxyHttp='true',
43                                     proxyHostname='[REDACTED]h',
44                                     proxyPassword='[REDACTED]',
45                                     proxyPort='8888',
46                                     proxyUserName='[REDACTED]'
47                                     )
48     sys.stdout.write('\n Python executing locally. \n')
49
```





# Success Storie 3 – HTN -Randbemerkung

## SAP BW - Verwendung von APIs zur Datenintegration



Klasse/Interface	Kurzbeschreibung
ZCL_API_01	API - REST - Daten
ZCL_API_001	API - REST - Ende der Verarbeitung bestätigen
ZCL_API_001	API - REST - Daten
ZCL_API_01	API - REST - Daten

Transp.Tabelle: ZB REST\_API

Kurzbeschreibung: REST\_API

Eigenschaften | Auslieferung und Pflege | **Felder** | Eingabehilfe/-prüfung | Währungs-/Mengenfelder

Suchhilfe | Eingebauter Typ | 1 / 5

Feld	Key	Ini...	Datenelement	Datentyp	Länge	Dez...	Kurzbeschreibung
MANDT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MANDT	CLNT	3		0 Mandant
VALUELIST_L	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	INI4	INT4	10		0 Natürliche Zahl
PF	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TEXT20	CHAR	20		0 Text in Länge 20
TIMESTAMP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TIMESTAMPL	DEC	21		7 UTC-Zeitstempel in Langform (JJJJMMThhmmssmmuuuu)
VALUE	<input type="checkbox"/>	<input type="checkbox"/>	FLOAT	FLTP	16		16 Feld vom Typ FLTP

user: Tabelle Z 5.134 Treffer

Data Browser: Tabelle Z 5.134 Treffer

MANDT	VALUELIST_L	PF	TIMESTAMP	VALUE
001	2	0	20.190.801.140.000,00000000	3,...
001	2	0	20.190.801.150.000,00000000	3,...
001	2	0	20.190.801.160.000,00000000	3,...
001	2	0	20.190.801.170.000,00000000	4,...
001	2	0	20.190.801.180.000,00000000	4,...
001	2	0	20.190.801.190.000,00000000	4,...
001	2	0	20.190.801.200.000,00000000	4,...
001	2	0	20.190.801.210.000,00000000	4,...
001	2	0	20.190.801.220.000,00000000	3,...
001	2	0	20.190.801.230.000,00000000	3,...
001	2	0	20.190.802.000.000,00000000	3,...
001	2	0	20.190.802.010.000,00000000	3,...
001	2	0	20.190.802.020.000,00000000	3,...
001	2	0	20.190.802.030.000,00000000	3,...
001	2	0	20.190.802.040.000,00000000	3,...
001	2	0	20.190.802.050.000,00000000	3,...
001	2	0	20.190.802.060.000,00000000	4,...
001	2	0	20.190.802.070.000,00000000	4,...
001	2	0	20.190.802.080.000,00000000	4,...
001	2	0	20.190.802.090.000,00000000	3,...
001	2	0	20.190.802.100.000,00000000	3,...
001	2	0	20.190.802.110.000,00000000	3,...
001	2	0	20.190.802.120.000,00000000	3,...
001	2	0	20.230.101.140.000,00000000	4,...
001	2	0	20.230.101.150.000,00000000	4,...
001	2	0	20.230.101.160.000,00000000	4,...
001	2	0	20.230.101.170.000,00000000	5,...
001	2	0	20.230.101.180.000,00000000	5,...
001	2	0	20.230.101.190.000,00000000	5,...
001	2	0	20.230.101.200.000,00000000	5,...
001	2	0	20.230.101.210.000,00000000	5,...

Beteiligte:

- HTN - unbekannt
- Dirk

Zum Schluss

**Vielen Dank!**