



SAP/ABAP & Microsoft

Webinar, 29.5.2020, 10:00 Uhr



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Themenschwerpunkte

- Konzeption & Management von Entwicklungsprojekten
- SAP Architektur moderner Anwendungen
- SAP Change Management and S/4HANA
- SAP CDS, oData und Cloud



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Themenschwerpunkte

- Konzeption & Management von Entwicklungsprojekten
- Qualitymanagement & Performanceoptimierung
- Clean Code
- S/4HANA Custom Development
- SAP Champion 



Domini Bigl

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Themenschwerpunkte

- Konzeption & Management von Entwicklungsprojekten
- Qualitymanagement & Performanceoptimierung
- ABAP Units
- SAP Fiori, SAP UI5

DSAG Technologietage

Nicht mehr ganz aktuell

- **Nicht mehr ganz aktuell**
 - Duet / Mendocino
 - SAP Gateway for Microsoft
 - DCOM Connector (COM4ABAP)
 - .NET Connector
 - ...

SAP GUI, Office & OLE

• OLE

```
INCLUDE ole2incl.

DATA: g_appl  TYPE ole2_object.
DATA: g_work  TYPE ole2_object.

"...

PARAMETERS: p_file TYPE localfile DEFAULT 'C:\TheExcel.xls'.

START-OF-SELECTION.

    CREATE OBJECT g_appl 'EXCEL.APPLICATION'.

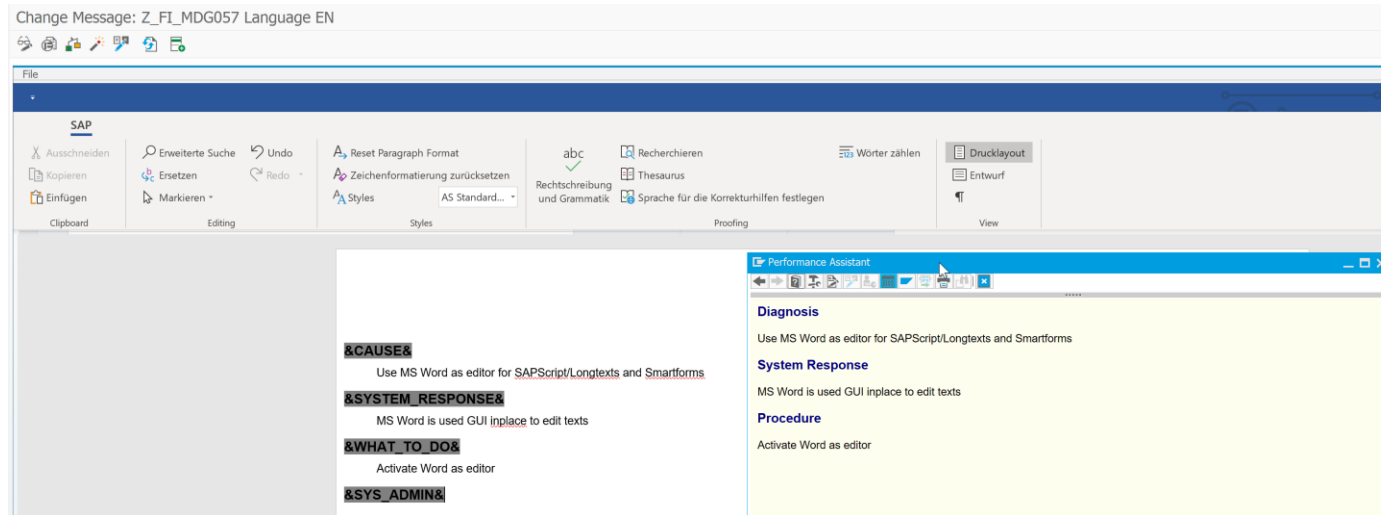
    SET PROPERTY OF g_appl 'VISIBLE' = 1.

    CALL METHOD OF g_appl 'WORKBOOKS' = g_work.

    CALL METHOD OF g_work 'OPEN' EXPORTING #1 = p_file.

    "...
```

• Desktop Office Integration - Texteditor



• Desktop Office Integration – ALV

Data Browser: Table T000 Select Entries 2

Check Table...

	MANDT	MTEXT	ORT01	MWAER	ADRNR	CCCATEGORY	CCCORACTIV	CCNOCLIIND	CCCOPYLOCK	CCNOCASCAD	CCSOFTLOCK	CCORIGCONT	CCIMAILDIS	CCTEMPLOCK	CHANGEUSER	CHANGEDA
000	SAP	SE	Walldorf	EUR		S	2		X							
001	SAP	SE	Walldorf	EUR		C	1									

NPL(2)/001 Select Spreadsheet

Formats:

☐ Excel (in MHTML Format)
☐ OpenOffice (in OpenDocument Format 2.0)
☒ Select from All Available Formats
 10 Excel (in Office 2007 XLSX Format)

☐ Always Use Selected Format

Speichern unter

Speichern in: SAP GUI

Name: Es wurden keine Suchergebnisse gefunden.

Änderung...

Schnellzugriff

Desktop

Bibliotheken

Dieser PC

Netzwerk

Dateiname: T000

Dateityp: Excel (*.XLSX)

Speichern

Abbrechen

abap2xlsx

- **abap2xlsx**
 - Open Source, seit 2010
 - Professionelle Excel Tabellen mit ABAP

- dotabap.org

ABAP Open Source Projects

Projects: 146




abapGit created by *larshp* 6 years ago

Git client for ABAP
MIT License

Git <https://github.com/larshp/abapGit.git>

★ 668 </> 101.1k 2020/05/26




abap2xlsx created by *sapmentors* 6 years ago

Generate your professional Excel spreadsheet from ABAP
Apache License 2.0

Git <https://github.com/sapmentors/abap2xlsx>

★ 280 </> 46.2k 2020/05/26



ABAP-SDK-for-Azure created by *microsoft* 2 years ago

ABAP Libraries for SAP native Integration with Azure Services
MIT License

Git <https://github.com/microsoft/ABAP-SDK->

★ 79 </> 9.5k 2020/05/24



abapGitServer created by *larshp* 5 years ago

Git server implemented in ABAP
MIT License

Git <https://github.com/larshp/abapGitServer>

★ 46 </> 6.5k 2020/05/24

- github.com/sapmentors/abap2xlsx
 - ABAP Klassen
 - Formatierung
 - Typisierung (Datum, Zeit,...)
 - Farben, bedingte Formatierung
 - Formeln
 - Diagramme
 - ...
 - Hintergrund/ohne Excel

• Output ZDEMO_EXCEL1

The screenshot displays the 'abap2xlsx Demo: Hello World' application. On the left, the 'Output options' panel shows four radio buttons: 'Save to frontend' (selected), 'Save to backend', 'Direct display', and 'Send via email'. The main window shows a generated Excel spreadsheet with the following content:

	A	B	C	D	E	F	G	H	I	J	K
1											
2		Hello world									
3		28.05.2020	16:22:20								
4		Click here to visit abap2xlsx homepage									
5											

- Report ZDEMO_EXCEL1

```
CREATE OBJECT lo_excel.

" Get active sheet
lo_worksheet = lo_excel->get_active_worksheet( ).
* lo_worksheet->set_title( ip_title = 'Sheet1' ).
lo_worksheet->set_cell( ip_column = 'B' ip_row = 2 ip_value = 'Hello world' ).
lo_worksheet->set_cell( ip_column = 'B' ip_row = 3 ip_value = sy-datum ).
lo_worksheet->set_cell( ip_column = 'C' ip_row = 3 ip_value = sy-uzeit ).
lo_hyperlink = zcl_excel_hyperlink=>create_external_link( iv_url = 'http://www.plinky.it/abap/abap2xlsx.php' ).
lo_worksheet->set_cell( ip_column = 'B' ip_row = 4 ip_value = 'Click here to visit abap2xlsx homepage' ip_hyperlink = lo_hyperlink ).

lo_column = lo_worksheet->get_column( ip_column = 'B' ).
lo_column->set_width( ip_width = 11 ).

*** Create output
lcl_output=>output( lo_excel ).
```

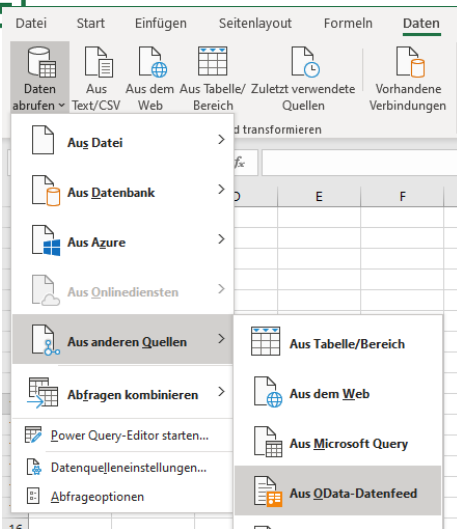
OData

REST Operation	HTTP Method
C reate a resource	POST
R ead one or more resources	GET
U pdate a resource	PUT
D elete a resource	DELETE

Odata	SQL
GET .../BusinessPartners/\$count	select count(*) from BusinessPartners
GET .../BusinessPartners? \$select=BusinessPartnerID,CompanyName	select BusinessPartnerID,CompanyName from BusinessPartners
GET .../BusinessPartners? \$filter=startswith(CompanyName,'S')	select * from BusinessPartners where BusinessPartnerID cp 'S*'
GET .../BusinessPartners?\$top=6	select * from BusinessPartners up to 6 rows



OData



OData-Feed

☒ Standard ☐ Weitere

URL

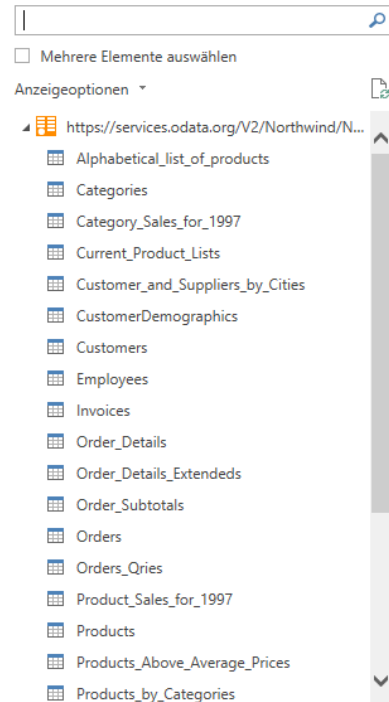
<https://services.odata.org/V2/Northwind/Northwind.svc/>

OK

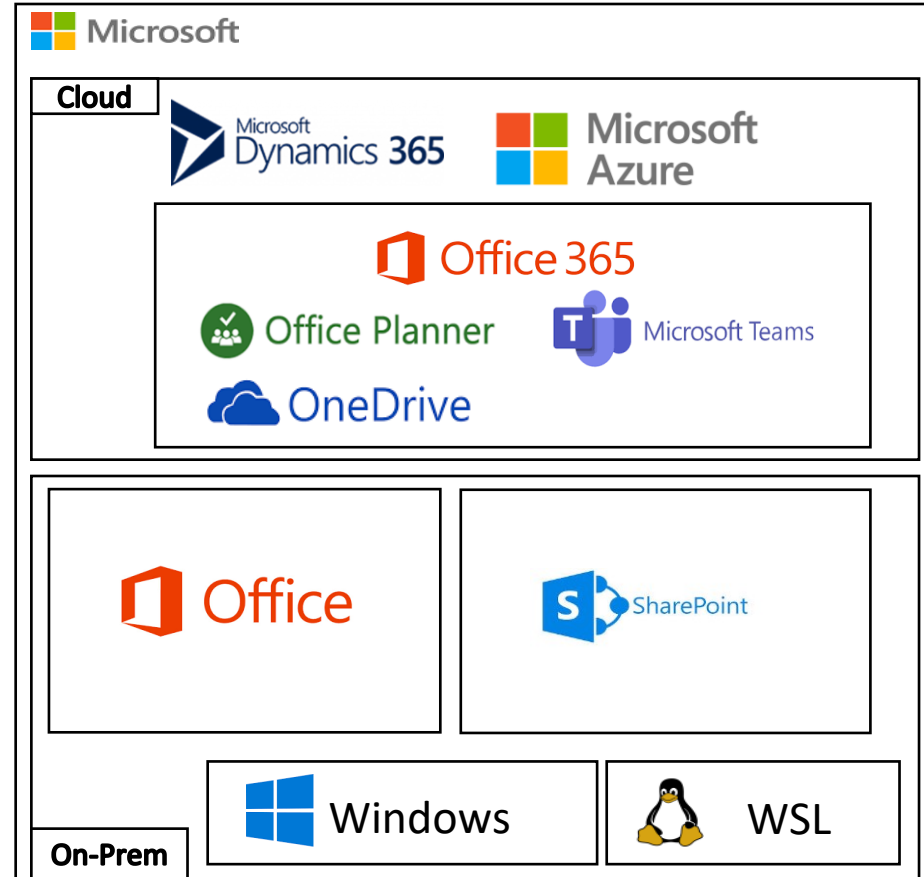
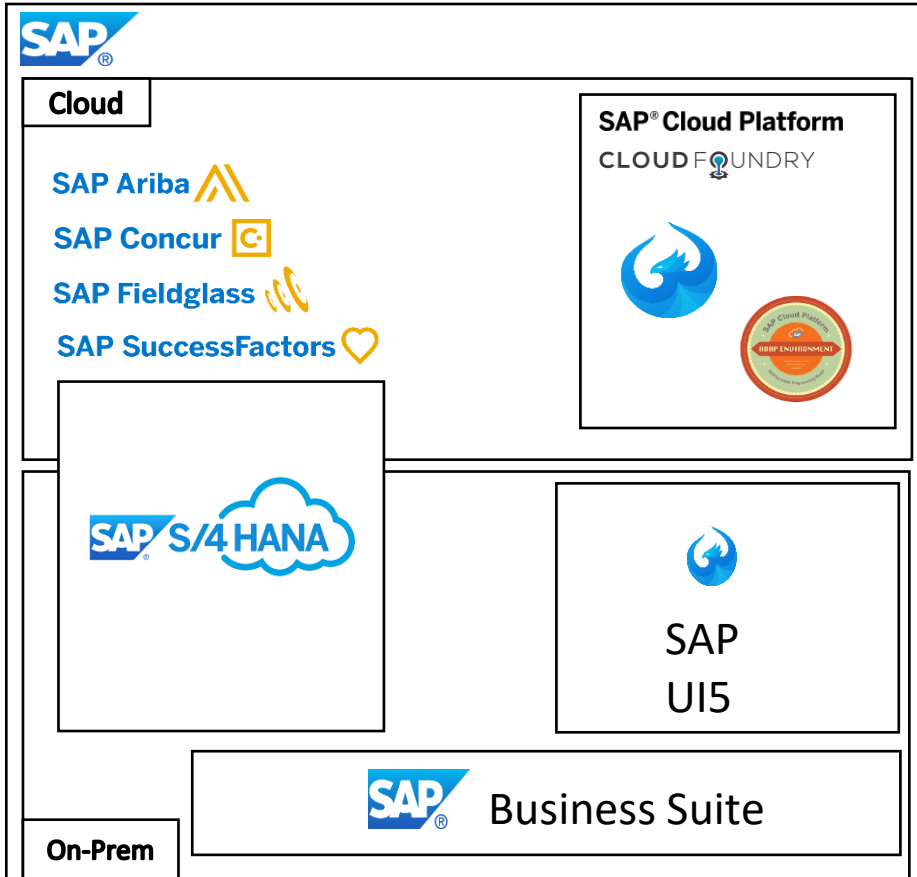
Abbrechen

cadaxo

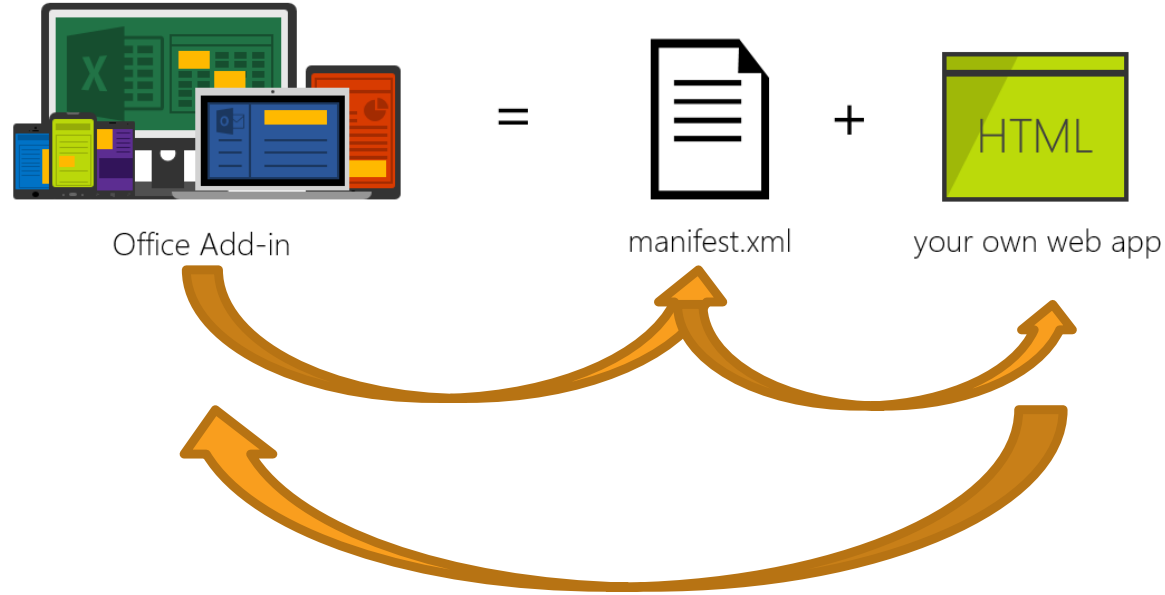
Navigator



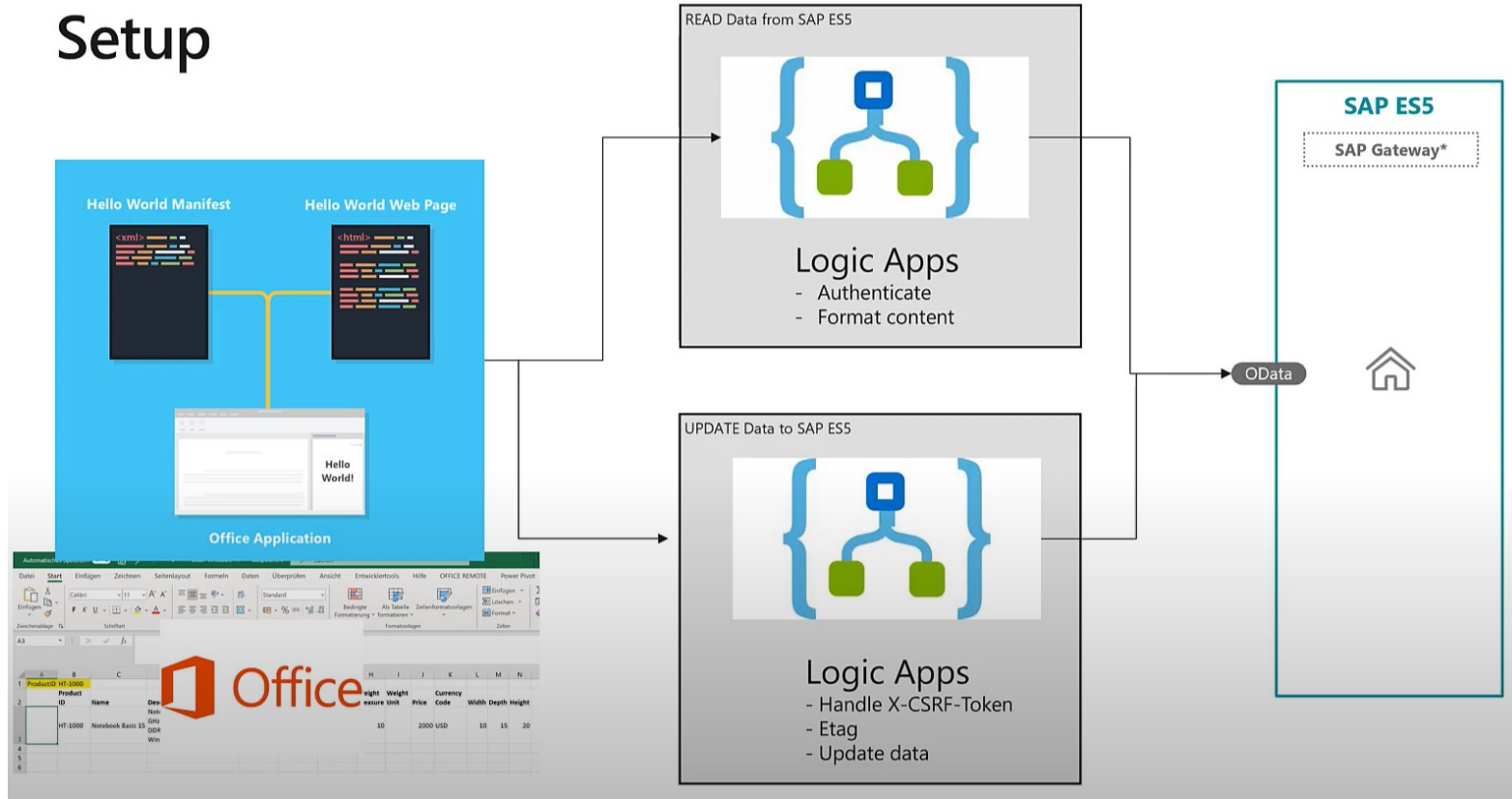
Big Picture



- Demo

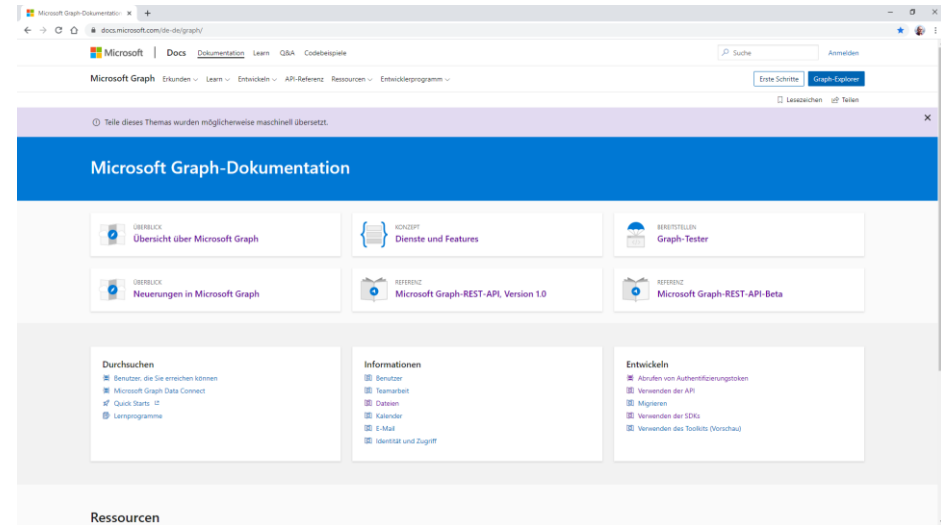


Setup



Microsoft Graph API

- **Microsoft Graph API**
 - Single Endpoint auf Microsoft 365
 - <https://graph.microsoft.com>
 - REST APIs oder SDK



```
graph LR; ABAP[ABAP] --- Container[ ]; subgraph Container; AR[App Registrierung]; OD[OneDrive]; end
```

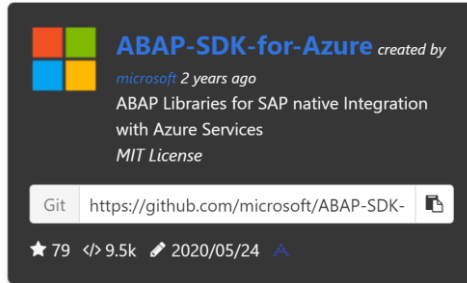
ABAP

App
Registrierung

OneDrive

ABAP SDK for Azure

- ABAP-SDK-for-Azure



- Customizing
 - URLs
 - Credentials
- ABAP Klassen

- Event hub
- Service bus
- Key vault
- Active Directory
- Blob
- Cosmos DB
- OMS Log Analytics
- Microsoft Graph API

<https://github.com/microsoft/ABAP-SDK-for-Azure/blob/master/README.md>

- Demo

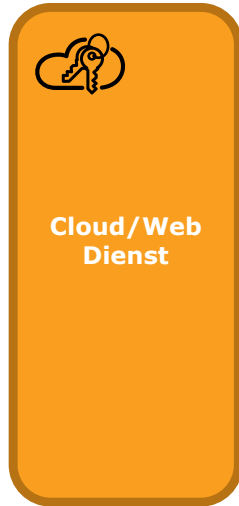
ABAP

Azure

Event Hub und Logic Apps

G Suite

Taskliste

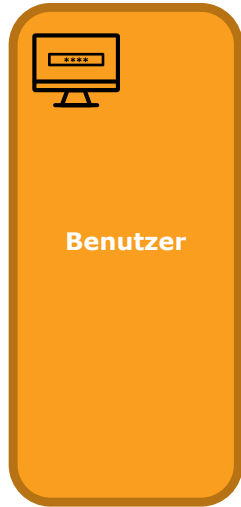


- **Resources / WebAPI**
 - **OAuth 2.0**
 - **Authentication**
 - **Authorization**





- **Anwendung**
 - Zugriff auf Ressourcen/WebAPI
 - HTTP Aufrufe absetzen
 - über URL aufrufen



- **Benutzer**
 - Browser
 - Zugang zur Anwendung
 - Account für Dienst



<http://www.cadaxo.com/blog/>



www.eventbrite.com/e/cadaxo-webinar-thema-tbd-tickets-107065190868

See you again!

Thank you for participating!



<https://twitter.com/foessleitnerj>



<https://www.linkedin.com/in/johann-föbleitner-a9851b2a>



https://www.xing.com/profile/johann_foessleitner



<https://twitter.com/domibiglsap>



<https://www.linkedin.com/in/dominik-bigl-9b98b68b>



https://www.xing.com/profile/dominik_bigl



<https://twitter.com/SoSchlegel87>



<https://www.linkedin.com/in/soeren-schlegel-55171bb4>



https://www.xing.com/profile/Soeren_Schlegel2