



Azure Data Driven Scan

Microsoft Solution



2 weeks scan

To improve on Data Driven Maturity

🔗 Azure Data Driven Scan

Maturity Assessment & Goals

A data driven maturity assessment measures the current situation and is input for the workshop to determine the business drivers and goals to improve the maturity.

Interviews

Interviews are held with key stakeholders including CIO, Architects, Managed Services and business to identify opportunities, risks and possibilities.

Roadmap & Presentations

Presentation of the proposed roadmap for the next design sprint is presented to the key stakeholders and the client.

Workshops & Scans

Based on the goals to achieve workshops will be held to determine the requirements for privacy & security. Another workshop is focussing on the current datasets and data sources to identify improvements and additions.

Blue prints & Feedback

A standard blue print will be selected from the Info Support Blue Print catalog that matches the desired maturity. The concept version of the plan is presented to the key stakeholders and feedback is gathered.



Maturity Assessment & Goals



❖ Maturity Level Assessment

Info Support uses her Data Driven Maturity Model to assess the current maturity of the organization.

10 dimensions are assessed and are input to determine the goals and drivers for the business.

Dimensions that will be assessed:

- ✓ Data
- ✓ Metrics
- ✓ Skills
- ✓ Technology
- ✓ Leadership
- ✓ Culture
- ✓ Strategy
- ✓ Agility
- ✓ Integration
- ✓ Empowerment



❖ Maturity Level Assessment

Extensive reporting will give insight into the current maturity. The overall score determines the maturity level. Detailed scoring for each dimensions provide input for selecting individual dimensions to approve on in the Design Sprint.

For each dimension there's guidance how to improve on that dimension.

❖ Data-Driven Maturity: Collect & Store (1,8/5)

Reporting is the first stage in our data-driven maturity model. The focus in this stage is on orchestrating efforts to set up analytics. The goal is to make data available for analyzing, and do basic reporting. Analytics and a data-driven way of working have to become official. Until now analytics has been done on an ad hoc basis, with no formal processes in place to guide the activities. Spreadsheets are the main tool used for basic analysis and reporting. The proliferation of spreadsheets leads to confusion, as there no longer is a single source of truth or any responsibility for data and spreadsheets. But there is a growing interest in the potential of using data and analytics to support the decision-making process. Both by employees as in upper management there is a desire to no longer rely on intuition to make decisions. The first step to attaining insight into how the company is doing is to report past performance. This information can be analyzed by managers in order to make decisions regarding the future.

Data: Explore -> Stream & Operationalize

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Large amounts of data are being collected and analyzed. It is now time to bring it to a true big data scale to feed the data-driven models you are creating. Collecting user behavior on websites provides massive amounts of raw data. The key is refining this to user intent. What does it mean when someone lingers on this product page? Is he doubting the price or the product model? If you find the intent of a user, you can act on it by personalizing their experience. Collect data like user behavior on a bigger scale.

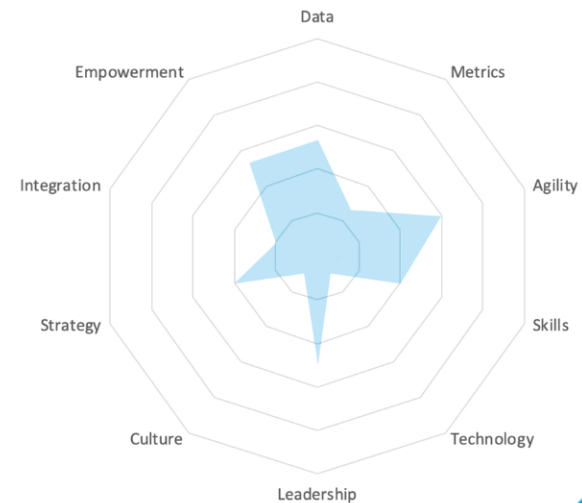
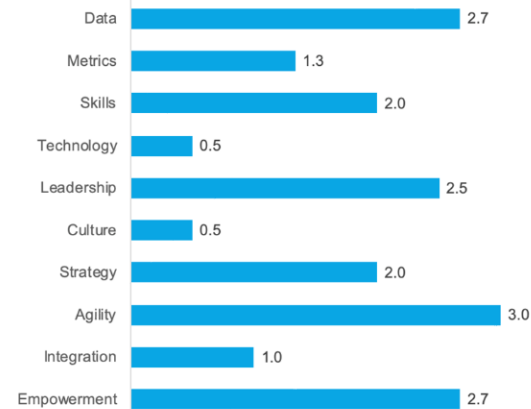
- Use customer data to personalize the experience.
- Focus on data quality.

Metrics: Collect & Store -> Explore

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In this stage, basic metrics are collected and displayed in dashboards. Because you are collecting metrics for a longer time you can now also track KPI's over time. You now also have the capability to create a model. If you can create an analytical model that tracks customer behavior, you can create a customer lifetime value (CLV) model. The CLV can also serve as a KPI.

❖ Data-Driven Maturity: Collect & Store (1,8/5)



2,0

ed concepts, such as machine learning. events. We can use the large amounts of data

❖ Workshop Goals & Drivers

Workshop to determine the business goals and what drives the business to improve on their data driven maturity. The data driven maturity assessment is input for this workshop. The client and key stakeholders will be present during this workshop.

The client and stakeholders are choosing the dimensions on which to focus on to improve. It's had to improve on all 10 dimensions at once. So priorities are set at the end of the workshop.

The assessment and the business goals and drivers are the starting point for the Azure Data Driven Scan.





Workshops & Scans



❖ Workshop Data Sources & Sets

Workshop to determine the business goals and what drives the business to improve on their data driven maturity. The data driven maturity assessment is input for this workshop. The client and key stakeholders will be present during this workshop.

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Privacy Scan

The privacy quick scan determines the risks and gaps in relationship to the GDPR. The quick scan is a good start for Privacy by Design and provides insights to improvements for Data & AI.



AVG-naleving ziet er goed uit omdat aan alle basale bepalingen in de PQS wordt voldaan.



Het merendeel van de bepalingen (>50%) is op orde maar aan enkele wordt nog niet voldaan.



AVG-naleving is niet op orde omdat aan basale bepalingen grotendeels niet wordt voldaan.

Privacy Quick Scan (concept)
Een indicatie van privacy-naleving en -risico's

Verwerking: 5.1.2 Exploiteren gebouwen (locale volgsysteem) Organisatie: Info Support B.V. Contactpersoon: Scandatum: maandag 25 juni 2018 Analist: Harry Nieboer Opmerkingen: Voorbereiding AVG	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="background-color: #0070C0; color: white;">Compliance Index</th> </tr> <tr> <td style="text-align: center; font-size: 24px; font-weight: bold;">96%</td> </tr> </table>	Compliance Index	96%	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="background-color: #0070C0; color: white;">Privacyrisiconiveau</th> </tr> <tr> <td style="text-align: center;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10px; text-align: center;">▶</td> <td style="padding-left: 5px;">3 Hoog</td> </tr> <tr> <td style="width: 10px; text-align: center;">▶</td> <td style="padding-left: 5px;">2 Verhoogd</td> </tr> <tr> <td style="width: 10px; text-align: center;">▶</td> <td style="padding-left: 5px;">1 Gering</td> </tr> </table> </td> </tr> </table>	Privacyrisiconiveau	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10px; text-align: center;">▶</td> <td style="padding-left: 5px;">3 Hoog</td> </tr> <tr> <td style="width: 10px; text-align: center;">▶</td> <td style="padding-left: 5px;">2 Verhoogd</td> </tr> <tr> <td style="width: 10px; text-align: center;">▶</td> <td style="padding-left: 5px;">1 Gering</td> </tr> </table>	▶	3 Hoog	▶	2 Verhoogd	▶	1 Gering
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Naleving

Onderstaand is uiteengezet in welke mate de verwerking een bijdrage levert aan de in de privacy quick scan opgenomen AVG-bepalingen. Dit omvat een basale subset van de AVG.

- AVG-naleving ziet er goed uit omdat aan alle basale bepalingen in de PQS wordt voldaan.
- Het merendeel van de bepalingen (>50%) is op orde maar aan enkele wordt nog niet voldaan.
- AVG-naleving is niet op orde omdat aan basale bepalingen grotendeels niet wordt voldaan.

n.v.l. Beoordeeld is dat het specifieke aspect aantoonbaar niet van toepassing is.
n.t.b. Nader te bepalen. Beoordeling volgt nog, waarmee er geen aantoonbaarheid is op dit moment.

Worden de verboden in acht genomen?

n.v.l.	Verwerkingsverbod	Het verbod om bijzondere categorieën van persoonsgegevens en/of strafrechtelijke persoonsgegevens te verwerken, is opgeheven o.b.v. legitieme uitzonderingen.
n.v.l.	Exportverbod	Het verbod om persoonsgegevens naar landen buiten de EU te sturen of om vanuit deze landen tot de persoonsgegevens toegang te bieden, is opgeheven o.b.v. legitieme uitzonderingen.
n.v.l.	Verbod op systeembesluiten	Het verbod om zonder noemenswaardige menselijke tussenkomst beslissingen te nemen met wezenlijke gevolgen voor betrokkenen, is opgeheven o.b.v. legitieme uitzonderingen.

Worden de privacybeginselen nageleefd (verantwoordingsplicht)?

●	Rechtmatigheid	Persoonsgegevens worden rechtmatig, behoorlijk en transparant verwerkt. De verwerking is in lijn met de geest v/d wet en de betrokkene komt niet voor verrassingen te staan (score = 88%).
●	Doelbinding	Persoonsgegevens worden verenigbaar met welbepaalde, uitdrukkelijk omschreven en gerechtvaardigde doeleinden verwerkt en niet langer dan hiervoor nodig is (score = 100%).
●	Dataminimalisatie	Persoonsgegevens zijn toereikend, ter zake dienend en beperkt tot wat noodzakelijk is voor de doeleinden waarvoor zij worden verwerkt (score = 100%).
●	Juistheid	Gelet op de doeleinden waarvoor zij worden verwerkt, zijn persoonsgegevens correct, actueel en geven geen onjuist beeld van betrokkene (score = 100%).
●	Beveiliging	Een continu passend veiligheidsniveau is gewaarborgd dat is afgestemd op de risico's voor betrokkenen en onder meer bescherming biedt tegen datalekken (score = 71%).

Worden de rechten van betrokkenen gerespecteerd?

●	Informatie & inzage	Naast actieve informatieverstrekking kan betrokkene op verzoek zowel informatie over de verwerking als inzage in zijn persoonsgegevens krijgen (score = 100%).
●	Rectificatie	Er is een voorziening waarmee betrokkene in staat is om zijn persoonsgegevens aan te vullen of onjuiste persoonsgegevens te (laten) wijzigen (score = 100%).
●	Bezwaar	Aan het recht van betrokkene om zich te verzetten tegen de verwerking van zijn persoonsgegevens, kan gehoor worden gegeven (score = 100%).
●	Blokking	Betrokkene heeft de mogelijkheid om de verwerking van zijn persoonsgegevens tijdelijk stil te laten zetten of delen hiervan te parkeren (score = 100%).
●	Overdraagbaarheid	Betrokkene heeft de mogelijkheid om de verwerking van zijn persoonsgegevens tijdelijk stil te laten zetten of delen hiervan te parkeren (score = 100%).
●	Wissing	Er is een voorziening waarmee betrokkene hun gegevens kunnen laten verwijderen en om gebruik kunnen maken van hun recht om "vergeten" te worden (score = 100%).

Toelichting

5.1.2. Exploiteren gebouwen (locale volgsysteem) maakt gebruik van Whereis.

DONE: Bewaartermijn teruggebracht naar een maand, alleen inzicht nodig in geval van incidenten.

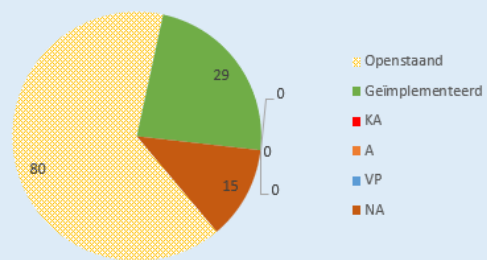
WAITING: Whereis wordt niet meer voor iedereen beschikbaar. Alleen secretariaat, nodig igv calamiteiten.



🔗 CIA Rating

This workshop is to determine the CIA rating for the desired data platform. It's an important input for selecting the data architecture and for the design sprints roadmap.

Algemene informatie	
Opdrachtgever	
Informatiesysteem	
Versie	
Datum audit	
Audit uitgevoerd door	
BIV Classificatie	233

Resultaten audit															
Eindconclusie															
Invulling maatregelen															
 <table border="1"><caption>Audit Results Data</caption><thead><tr><th>Categorie</th><th>Aantal</th></tr></thead><tbody><tr><td>Openstaand</td><td>80</td></tr><tr><td>Geïmplementeerd</td><td>29</td></tr><tr><td>KA</td><td>0</td></tr><tr><td>A</td><td>0</td></tr><tr><td>VP</td><td>0</td></tr><tr><td>NA</td><td>15</td></tr></tbody></table>		Categorie	Aantal	Openstaand	80	Geïmplementeerd	29	KA	0	A	0	VP	0	NA	15
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Openstaand	80														
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Opmerkingen															



Interviews



❖ Interviews

Interviews are held with key stakeholders including:

- CIO,
- Architects
- Operations
- Business

This to identify opportunities, risks and possibilities.





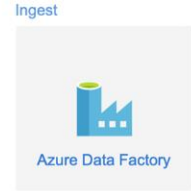
Blue prints & Feedback



Blue prints

Blue prints and guidance is provided for several use cases that matches the proposed maturity.

For every product and service in the blue prints, there's detailed guidance how to use the product or service.



Azure Data Factory is a hybrid data integration service that allows you to create, schedule and orchestrate your ETL/ELT workflows.

Guidance

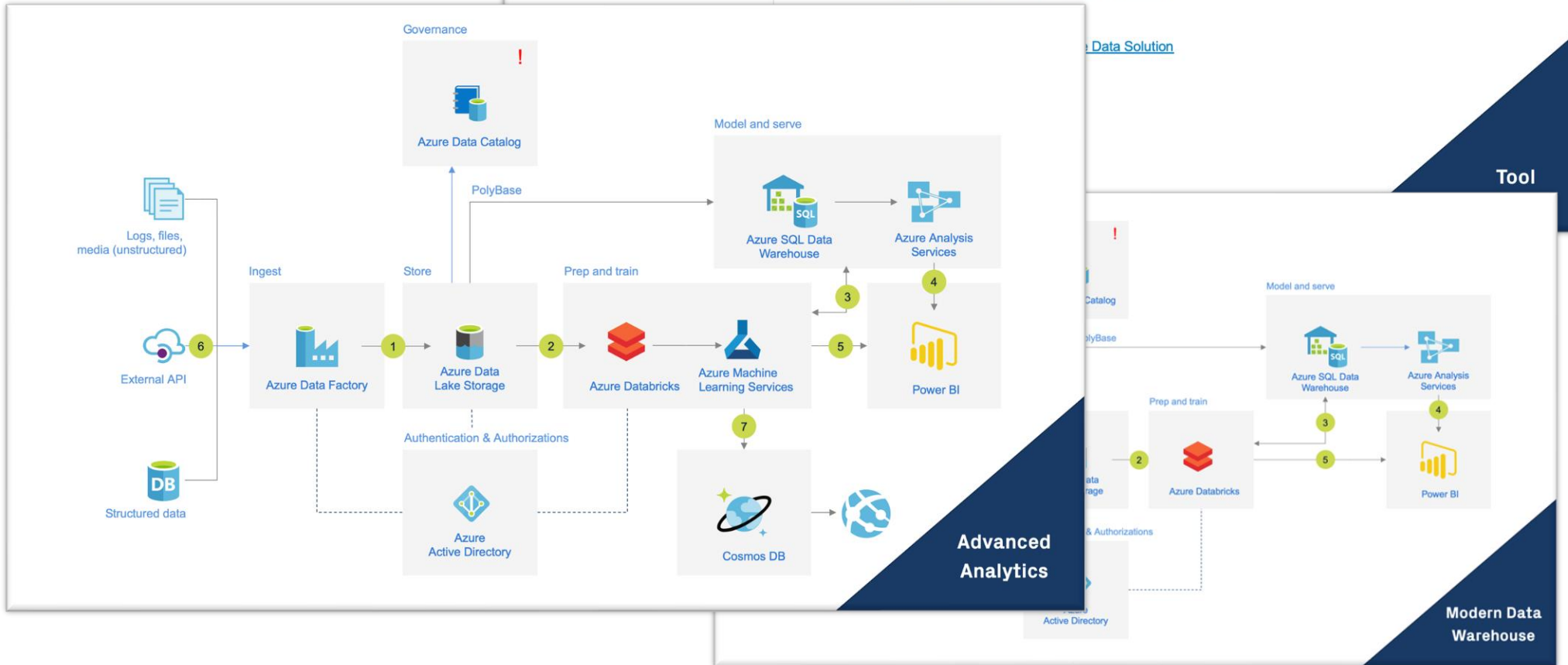
- Versioning: Bind to source control (will be blogpost)
- Testing data pipelines (will be blogpost)

Tooling

- Azure DevOps Pipelines
- Azure DevOps Source Control

Alternatives

- ELT / ETL Third party tools (Alteryx, Talend, Informatica, etc.)
- Service bus
- Jupyter notebooks
- Databricks
- Python scripts (possible as Azure Functions)



Feedback

Preliminary results and a proposed data platform architecture will be presented to the key stakeholders. Their feedback will be processed and will be input for the final roadmap for the Design sprints.





Roadmap & Presentations



❖ Roadmap

Based on the data driven maturity, the business drivers and goals and the interviews and scans a roadmap is presented for several Design sprints. It's an agile approach to improve on the maturity of the data platform and the dimension on which to improve on.

