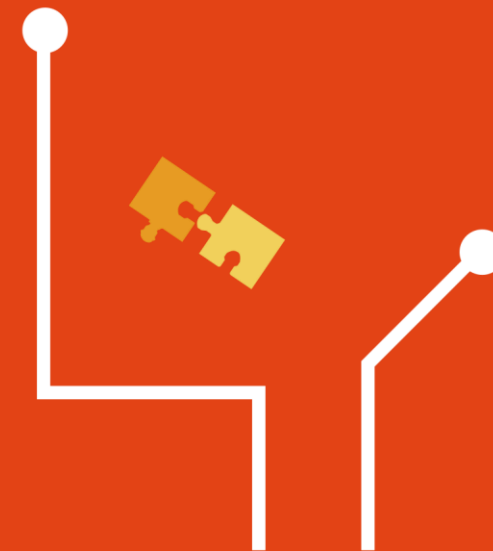
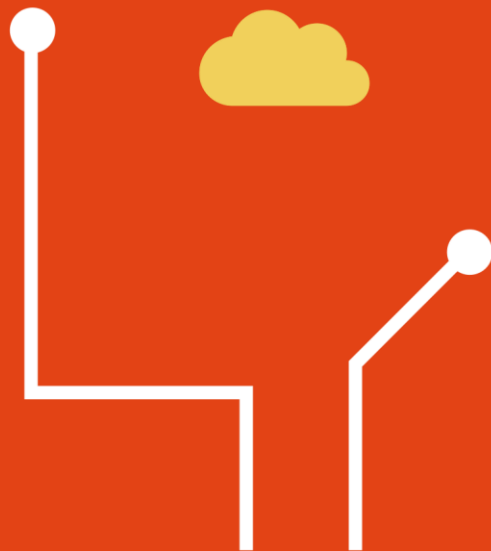




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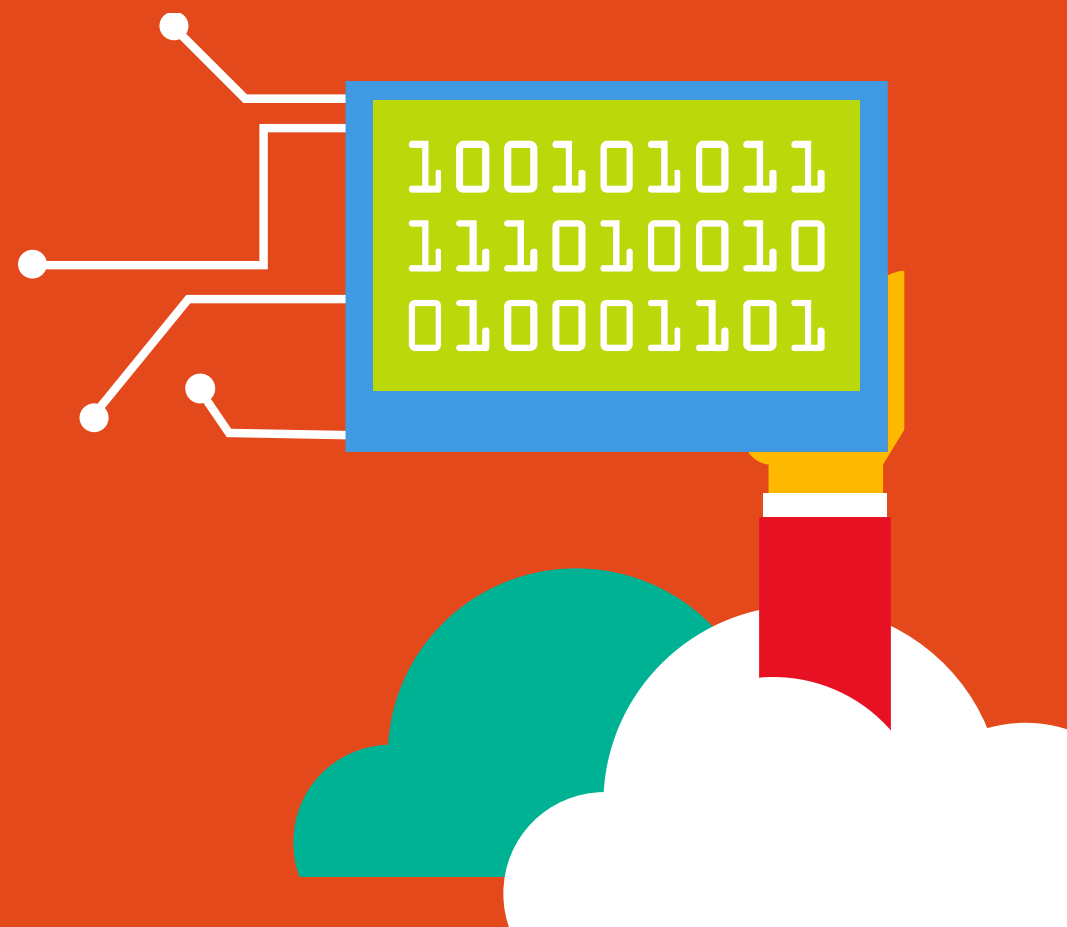




Napredna administracija i povećanje sigurnosti IT-a uz Power BI

Tomislav Poljak,
Microsoft Hrvatska

TEHNOLOGIJA



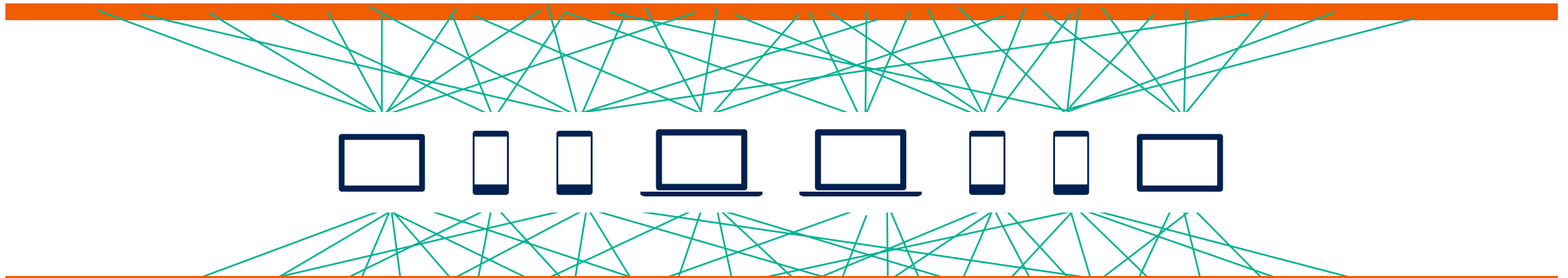
Agenda

- Security 101
- Power BI fundamentals
- Learn how to create and deploy a simple Power BI dashboard
- Learn how to deploy a Power BI dashboard for ConfigMgr

Security 101

Identity and Access Management

The current reality



On-premises



Managed devices

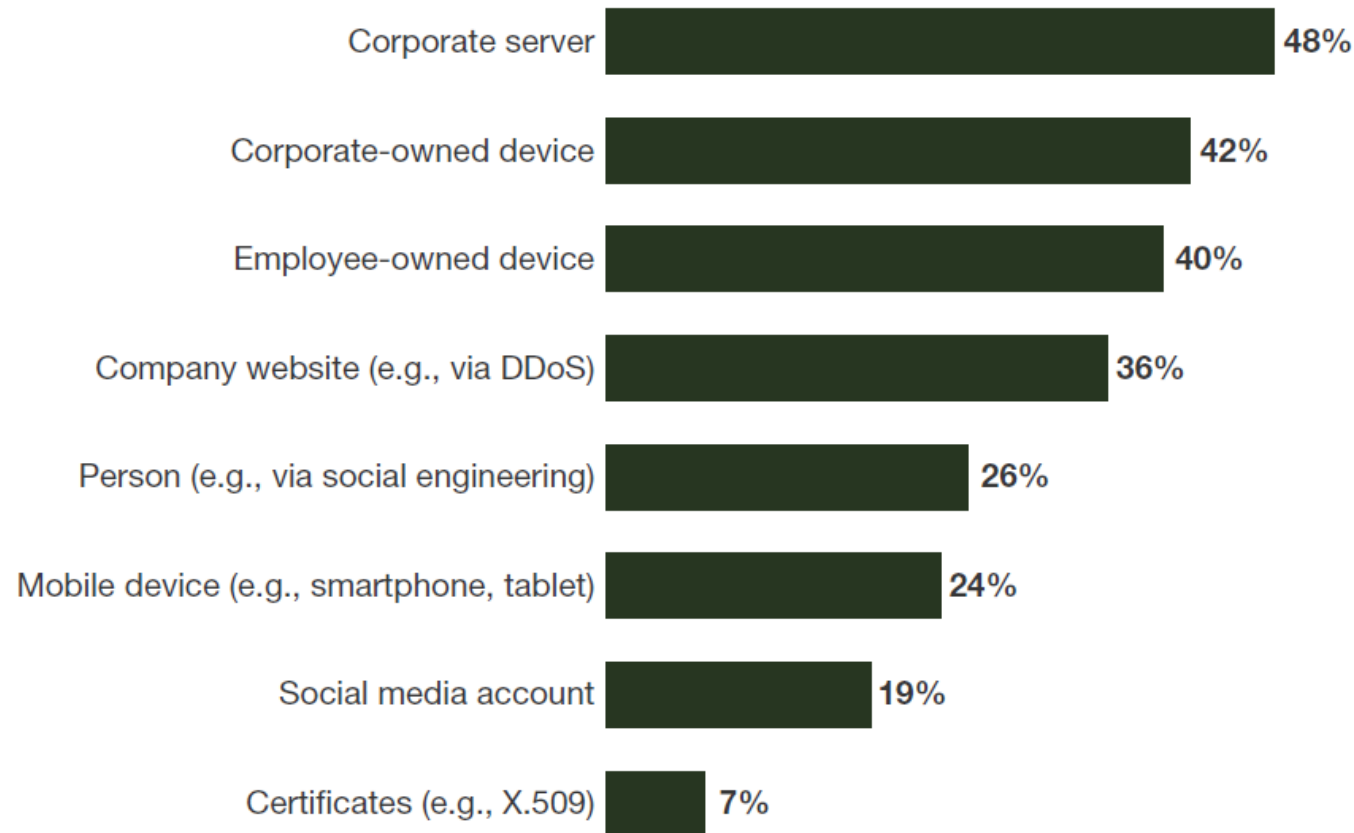


Active Directory



Most targeted group of assets - Forrester

“Which of the following was targeted as a part of this external attack?”



Base: 192 network security decision-makers whose firms have had an external security breach in the past 12 months (1,000+ employees)

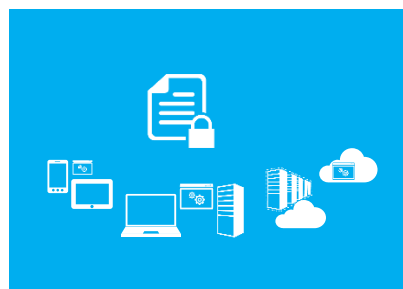
Source: Forrester's Global Business Technographics® Security Survey, 2016

Typical Attack Timeline & Observations



Attack Sophistication

*Attack operators exploit any weakness
Target information on any device or service*



Target AD & Identities

*Active Directory controls access to business assets
Attackers commonly target AD and IT Admins*

Attacks not detected

*Current detection tools miss most attacks
You may be under attack (or compromised)*



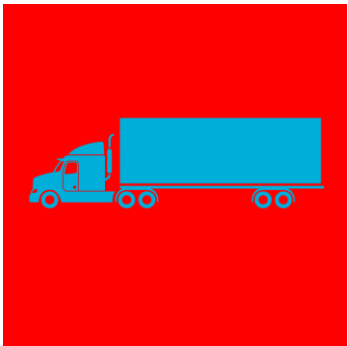
Targeted Attacks - Strategies and Tactics



Gain control of your identity store (Active Directory or 3rd party)

Public - admin rights, interesting projects/groups

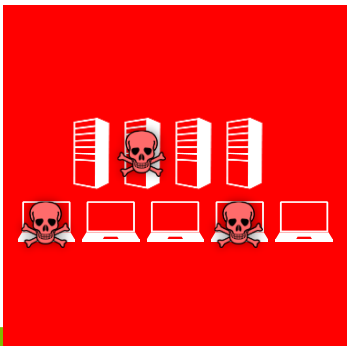
Secrets - passwords/hashes



Download terabytes of your data

Initially... Large exfiltration(s) of many types

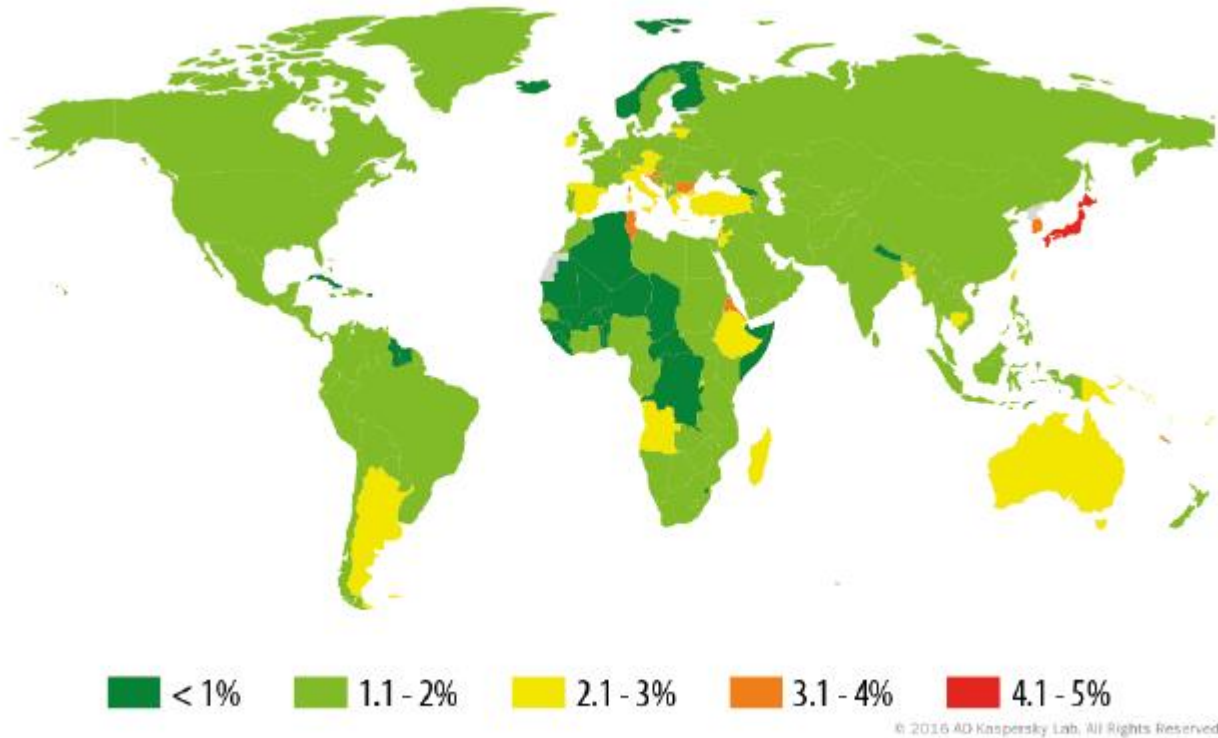
Then... target specific data (new/valuable/strategic)



Hide malware on multiple hosts

Custom compiled for organization

IT Threat Evolution in Q3 2016 - Kaspersky



Geography of Trojan-Ransom attacks in Q3 2016 (percentage of attacked users)

Top 10 countries attacked by cryptors

	Country*	% of users attacked by cryptors**
1	Japan	4.83
2	Croatia	3.71
3	Korea	3.36
4	Tunisia	3.22
5	Bulgaria	3.20
6	Hong Kong	3.14
7	Taiwan	3.03
8	Argentina	2.65
9	Maldives	2.63
10	Australia	2.56

Ransomware (WannaCry, Locky, .zz, TeslaCrypt...)

Backup (and check restore!)

Windows update - everything

Update everything – Java, Adobe, Google, Flash, Firefox

E-mail sandboxing

Applocker

Network shares

Office Macro's (enable, disable, control)

Office administrative templates

Group policies and scripts

Demo – what do we use ? (Windows OS)

Why „visualization“ in IT and why Power BI?

[illegible]

I am a scientist. A mathematician.
I love the familiar. I categorize. I am accurate. Linear.
Analytical. Strategic. I am practical.
Always in control. A master of words and language.
Realistic. I calculate equations and play with numbers.
I am order. I am logic.
I know exactly who I am.



Right brain

I am the right brain.
 I am creativity. A free spirit. I am passion.
 Yearning. Sensuality. I am the sound of roaring laughter.
 I am taste. The feeling of sand beneath bare feet.
 I am movement. Vivid colors.
 I am the urge to paint on an empty canvas.
 I am boundless imagination. Art. Poetry. I sense. I feel.
 I am everything I wanted to be.

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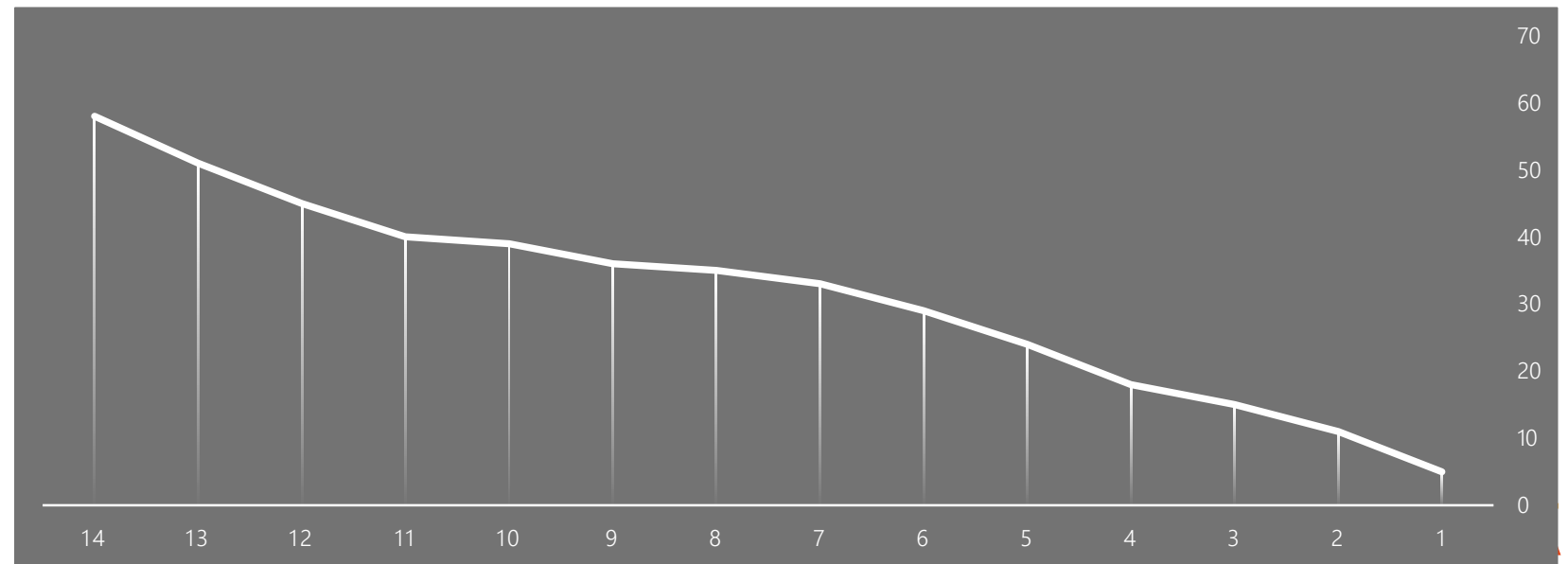
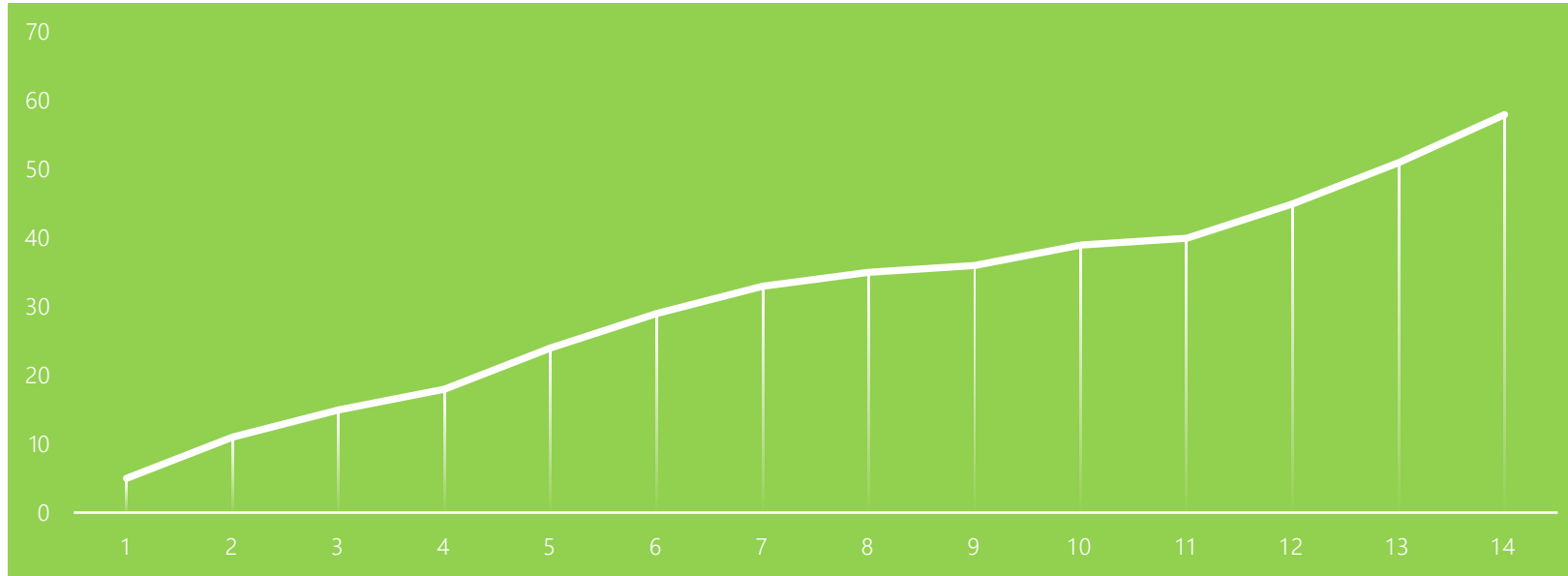
Example of visualization

While you are travelling down this road there is a chance that one or more rocks of a varying size may fall from the slopes on one or both sides of you. You should be aware of this before you travel this way so that you are cautious of this particular type of hazard.

VS.



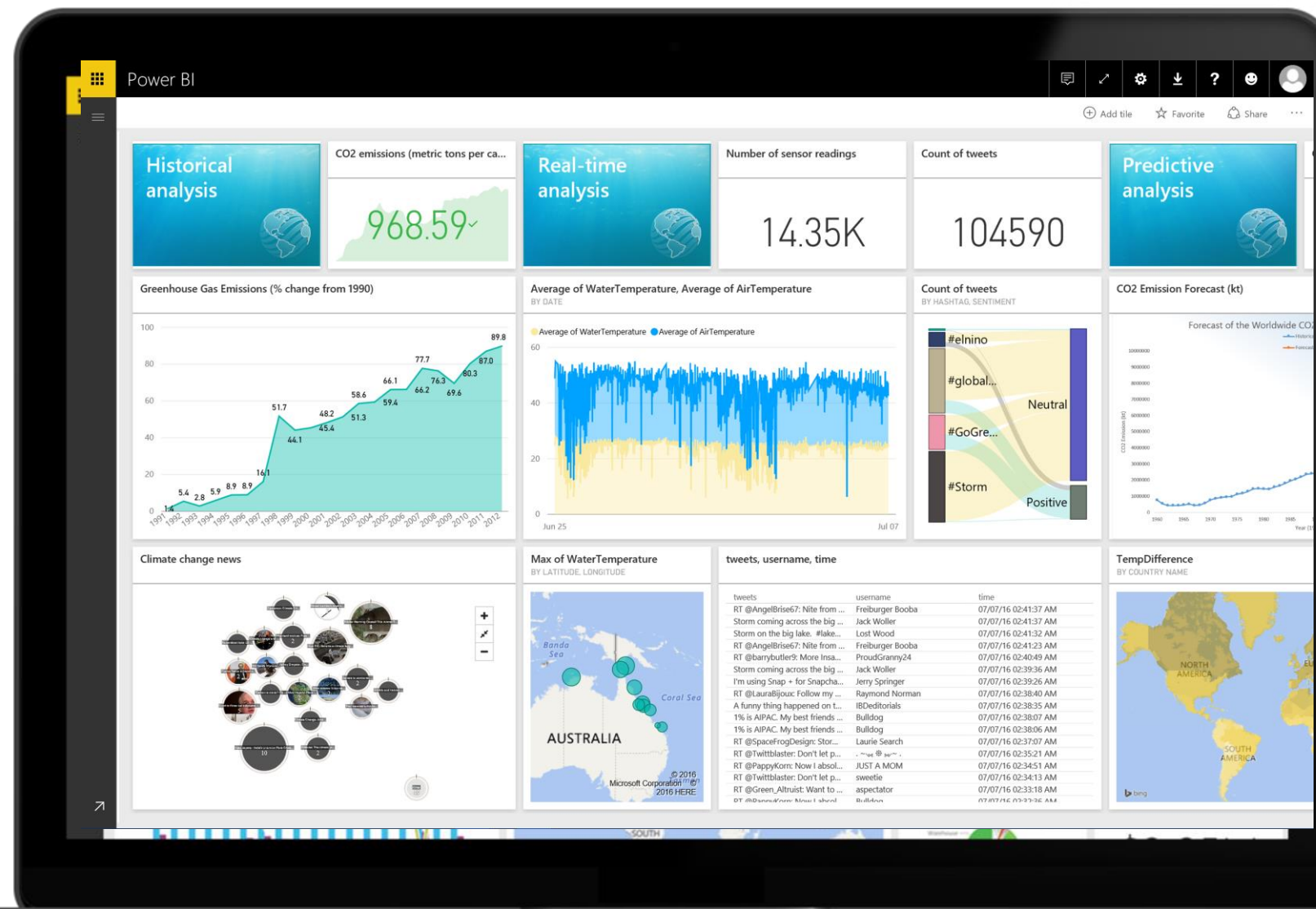
How do we think?



Power BI definitions

- The Power BI service is an online SaaS and is where Power BI users go to view their reports and dashboards, monitor data, etc
- The Power BI Desktop is the primary tool used to create and publish datasets, reports and dashboards to Power BI.
- Power BI Premium (ex PRO) is dedicated capacity for your organization or team, giving you enhanced performance and larger data volumes, without requiring you to purchase per-user licenses..

Get Dashboards in Minutes



Power BI Desktop

- The Power BI Desktop is the primary tool used to create and publish datasets, reports and dashboards to Power BI.
- The following are some of the features of the Power BI Desktop:
 - Freely downloadable 32-bit/64bit desktop companion, optimized for use with the Power BI Service
 - Provides visual data exploration and reporting tool complementary to Excel.
 - Allows users to effortlessly publish and share interactive visual reports with other Power BI users

Before you begin (after install Power BI Desktop)

- In your source data, make sure:
 - No misspellings
 - Proper date and number formats
 - No blank rows/columns
 - Column headings (tabular format)
 - Select data range and format it as a Table (don't add the Total row!)

Pivot Table Source Data Checklist

#1 - Tabular Format (one row of headers)

#2 - Remove blank rows

#3 - Remove blank columns

#4 - Convert value fields to numbers

#5 - Convert date fields to dates

#6 - No blank cells in date columns

#7 - Rename column headers

#8 - Put your data in an Excel Table

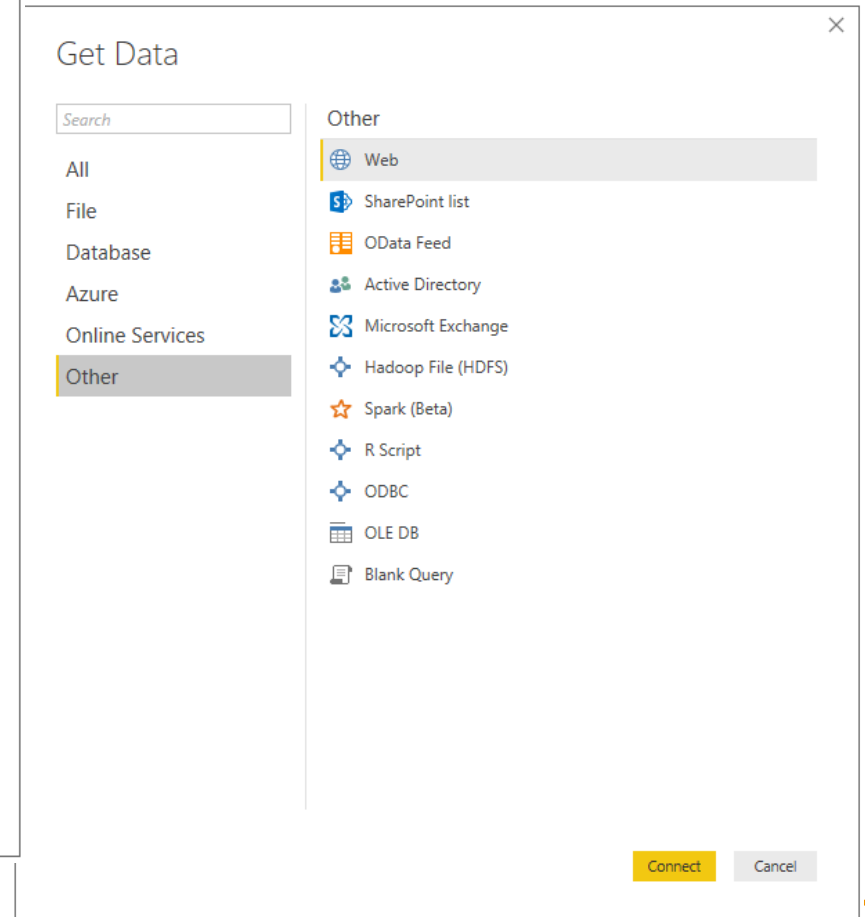
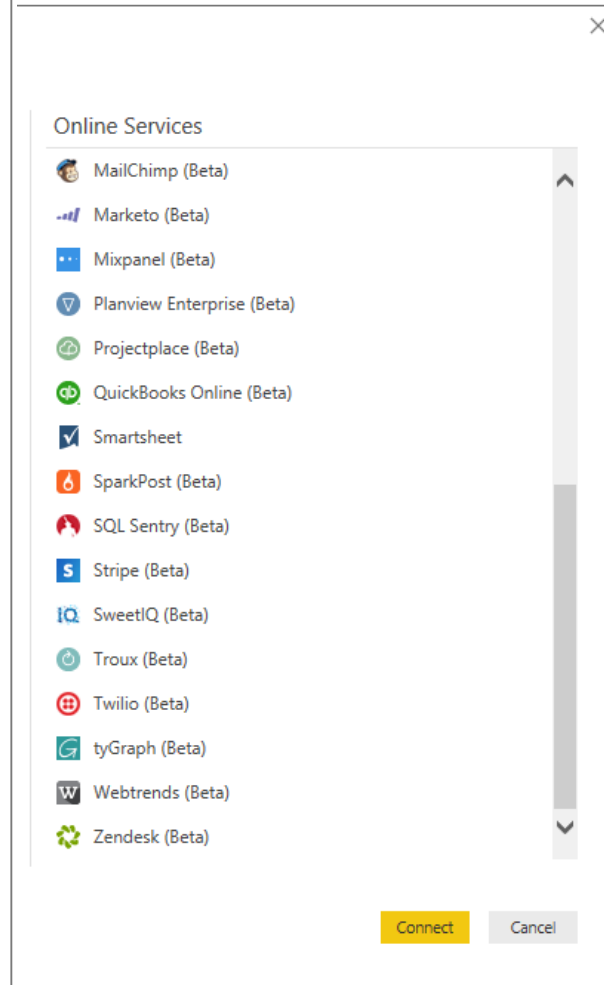
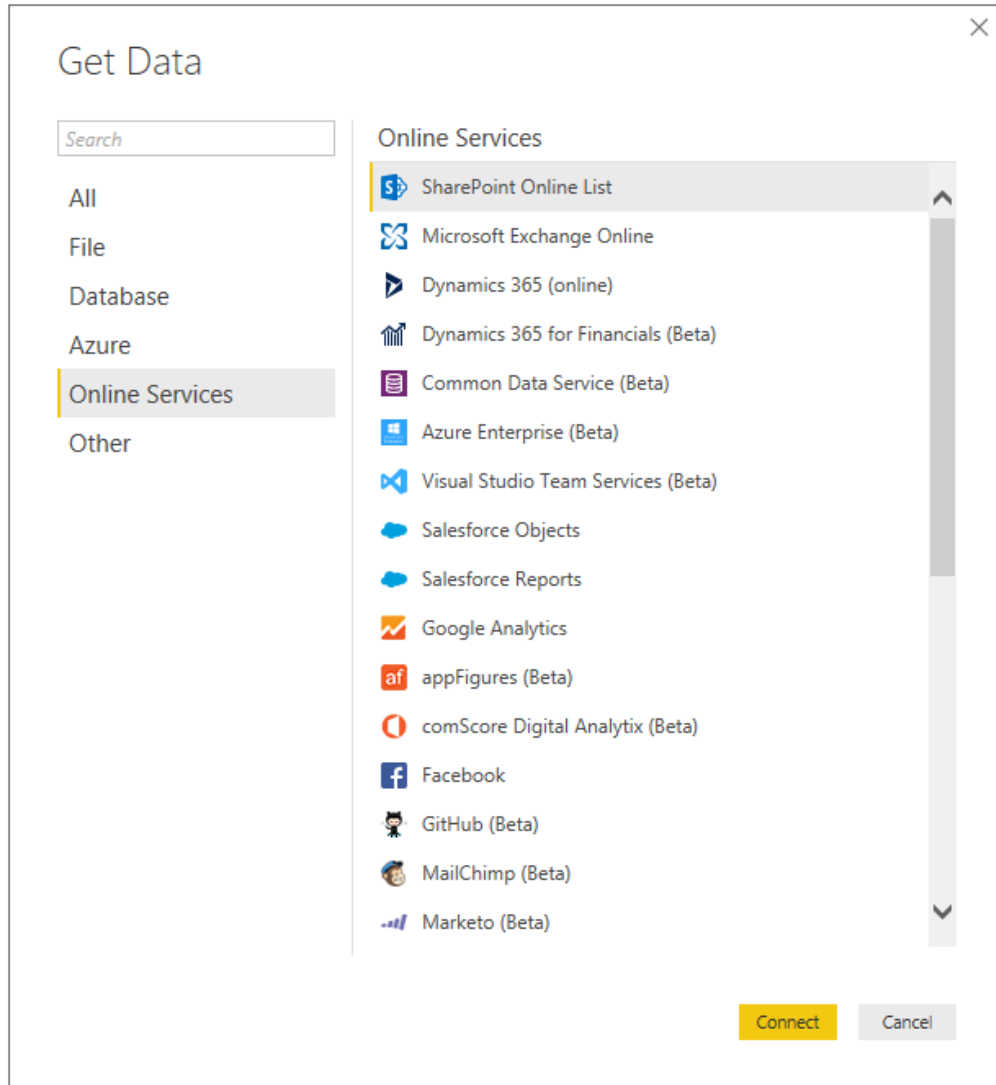
BEFORE

	A	B	C	D	E
1	Order Date	Column3		Quantity	Revenue
2	Dec-1-14	Chai		64	\$1,152.00
3	Dec-2-14	Coffee		82	\$3,772.00
4	Dec-3-14	Green Tea		17	\$50.83
5	Dec-5-14	Cr		88	\$680.80
6					
7	Dec-5-14	Clam Chowder		89	\$858.85
8	Dec-5-14	Syrup		49	\$280.00
9	Dec-8-14	Curry Sauce		29	\$480.00
10	Dec-8-14	Green Tea		12	\$296.01
11		Dried Pears		81	\$2,430.00

AFTER

	A	B	C	D
1	Order Date	Product Name	Quantity	Revenue
2	Dec-1-2014	Chai	64	\$1,152.00
3	Dec-2-2014	Coffee	82	\$3,772.00
4	Dec-3-2014	Gr	17	\$50.83
5	Dec-5-2014	Cr	88	\$680.80
6	Dec-5-2014	Clam Chowder	89	\$858.85
7	Dec-5-2014	Syrup	49	\$280.00
8	Dec-8-2014	Curry Sauce	29	\$480.00
9	Dec-8-2014	Green Tea	12	\$296.01
10	Dec-8-2014	Dried Pears	81	\$2,430.00

Power BI - connect to wide variety of sources



Demo 1

Active Directory

Users and Computers Accounts

Demo 2

SCCM

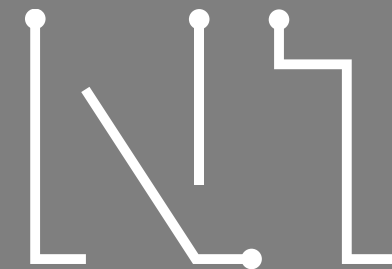
Operational flow

- Start from <https://app.powerbi.com>
- Open Office 365 trail (or not)
- Add Power BI license to the existing tenant or create new Power BI tenant
- Power BI free vs. Pro
- Download Power BI Dashboard
- Setup login into Power BI
- Prepare data for Power BI Desktop
- Import sample data - connecting your data into Power BI
- Manipulating your data - Locate data in the field list
- Create a visualization (Report)
- Save the report
- Create a dashboard
- Share a dashboard
- Publish to the Power BI service

Key message

Conclusion

- Education, certification (CISSP, Microsoft, ...)
- Official public information's
 - Forrester, Gartner,
 - Determined Adversaries and Targeted Attacks <http://www.microsoft.com/en-us/download/details.aspx?id=34793>
 - Security Intelligence Report (SIR) <http://www.microsoft.com/SIR>
 - Credential Theft Portal - Whitepapers and Resources www.microsoft.com/PTH
 - Taste-of-Premier <https://channel9.msdn.com/Blogs/Taste-of-Premier/ToP1716>
 - Microsoft Digital Advisory Services
- Conferences, blogs, LinkedIn, Facebook
- Microsoft and other monthly updates
- Prevent, detect and respond



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