



It still rains in the cloud

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About me

Tóth Dávid

Principal Software Engineer

Technical Lead

LogMeIn

david.toth@logmein.com

- HTML + Javascript: 15 years
- PHP : 2004-2008
- .net - 9 years (MCP)
- Piano – 20 years
- 1 wife 10 years
- 1 daughter 7.5 years
- 1 son 4.5 years

**What's the
difference
between
welding and
welding?**



Trans-Alaska Pipeline

11/10/2015



Trans-Alaska Pipeline

1300km ↔

1.219 m○



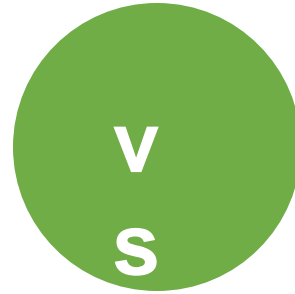
Fun Fact No.1



It's a huge magnet



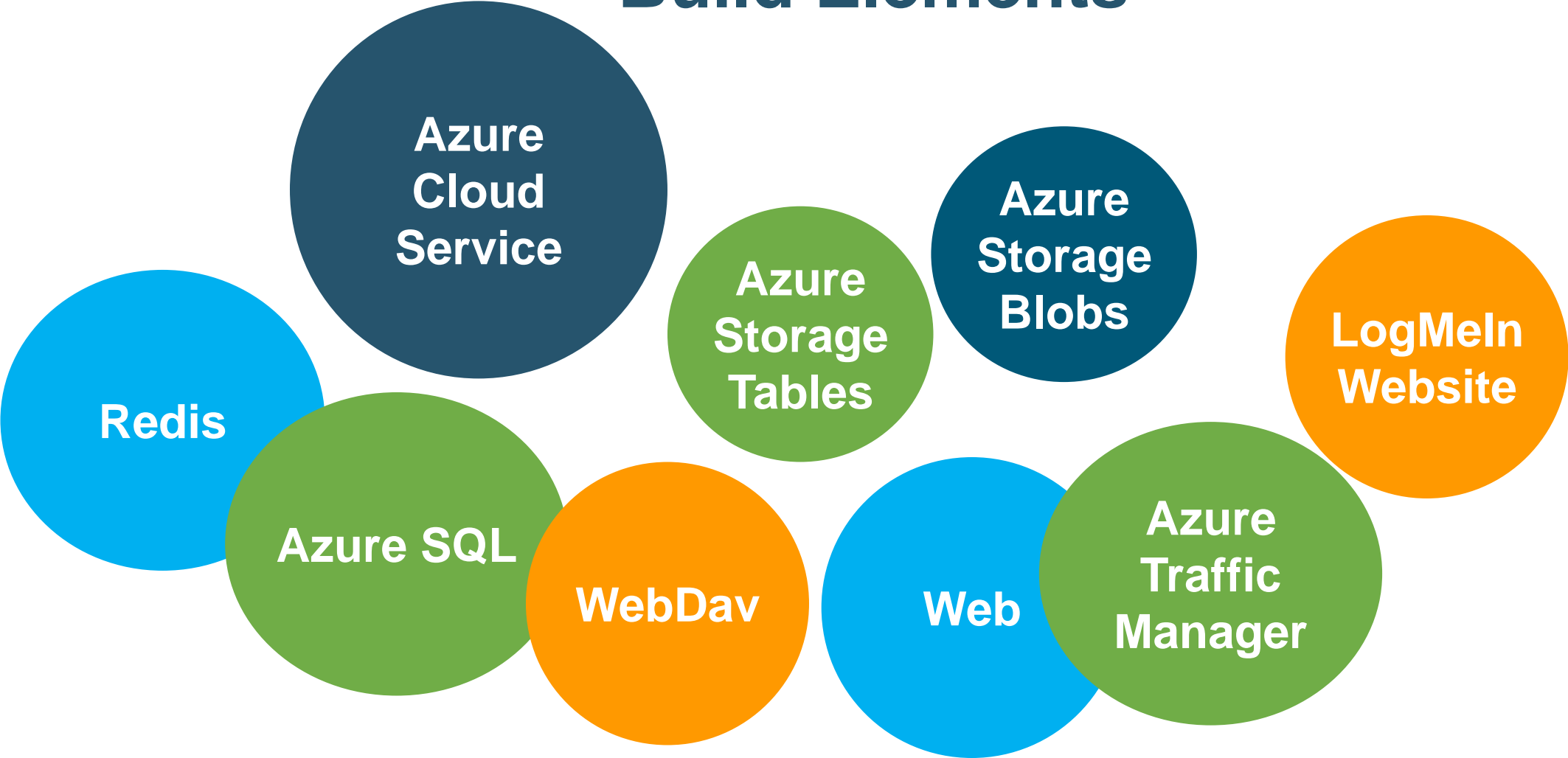
Fun Fact No.2



**„Operating a server or farm is like welding
at home or the
Trans-Alaska Pipeline”**

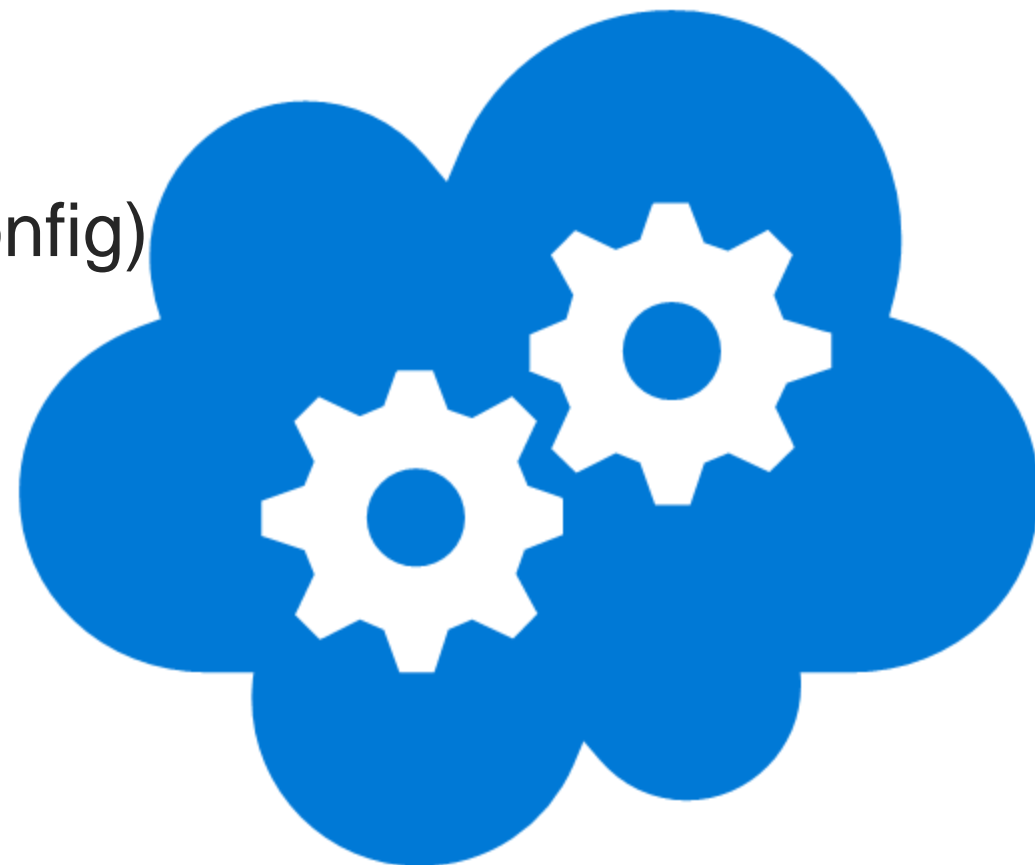
LogMeIn Files Architecture

Build Elements



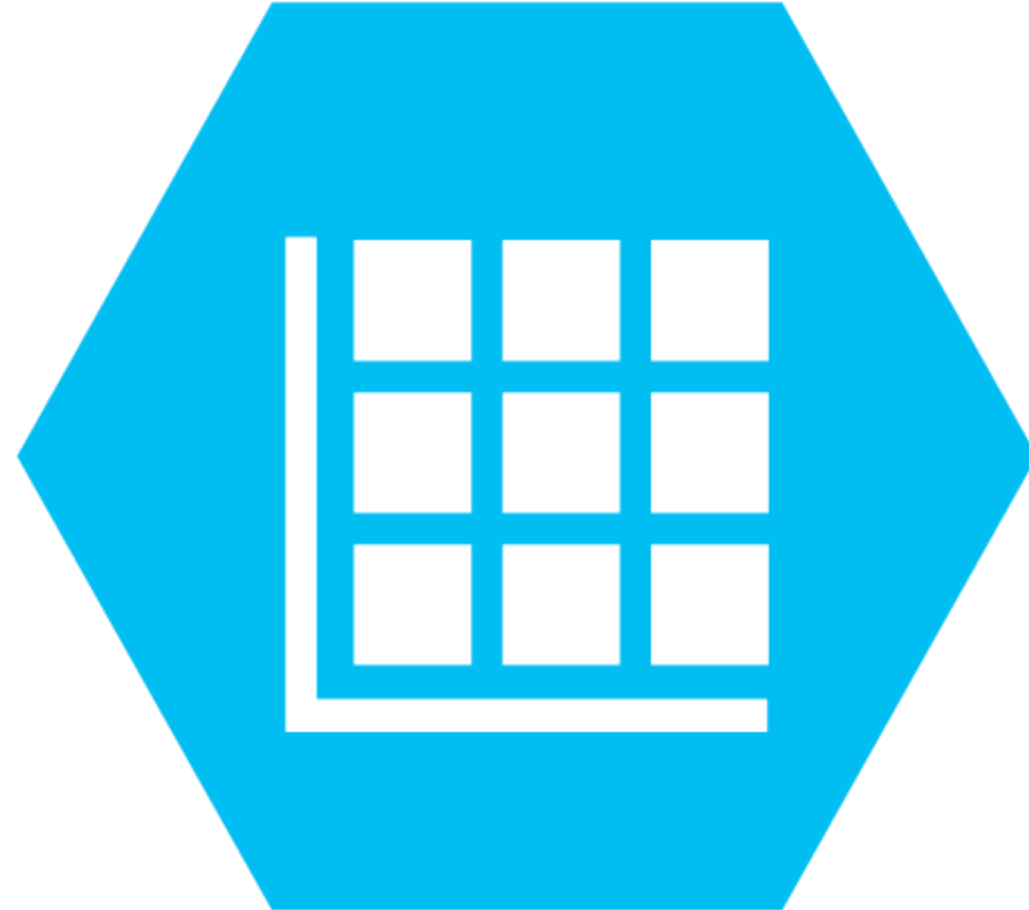
Azure Cloud Service

- Managed VMs (no need to patch, RemoteDesktop)
- Big VM
- Easy Deployment (Package and Config)
- OS Tweaks
- Own IIS
- Pre-deployment Script



Azure Table Storage

- REST API
- Scalable
- NoSQL tables
- PartitionKey, RowKey, Properties
- Multi level Redundancy
 - Local 3
 - Local 3 – Remote 3 (read-access)



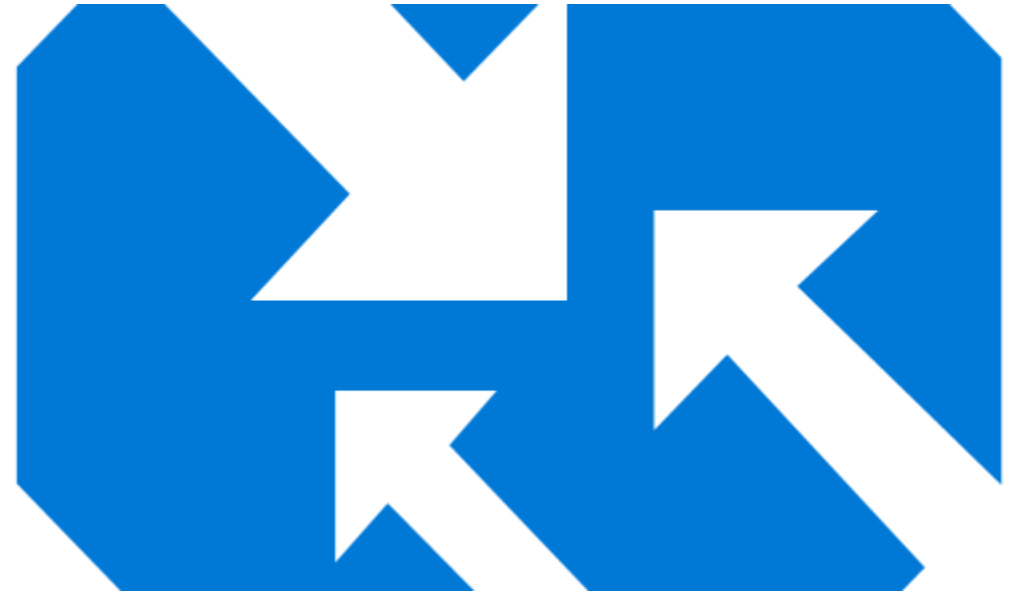
Azure Blob Storage

- REST API
- Scalable
- Container
- Binary storage
- Multi level Redundancy
 - Local 3
 - Local 3 – Remote 3 (read-access)



Azure Traffic Manager

- Connecting two cloud services
- Performance
- Failover
- Multilevel



Redundant Connections



- Failover
- Redunant storage
- At least two from every block

Scalaibility

- Traffic Manager
 - location aware service
- Geo- redundancy és affinity
- Load-Balancing
- Optimál CPU and Memory
- Sharding
- Failover options



Caching

- DB value cache
- Name -> ID cache



Self - DDoS

- DB TPS
- Request worker threads
- Async
- 100.000 ... 10.000.000 host
- Push vs. Poll
- cache



Security

- Access
- Content encryption
- MiddleKey - MasterKey
- „Almost” Zero-Knowledge
- Channel encryption
- XSRF, XSS, ClickJacking...



Interesting stories ;)



App Service Environment



Domain Controller



Ad-Hoc Security Changes



Mallware



Monitoring



Questions?



Thank you!
david.toth@logmein.com

