

AWS

5 U M M I T



Large Scale Enterprise Account Management

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Agenda

Introduction

Cloud adoption at Deutsche Bahn

Paradigm shifts in IT security

Basic security principles

Access security architecture

Why we are here

iX 5/2017

Im Gespräch: Gerald Hofer, Geschäftsführer Operations der DB Systel GmbH

"Cloud ist ein Konzernziel"

Tilman Wittenhorst

Der IT-Dienstleister der Deutschen Bahn, die DB Systel GmbH, verlagert ihr Rechenzentrum in die Amazon-Cloud. Bei diesem ehrgeizigen Projekt stellte sich nicht etwa die technische Umstellung als größte Hürde heraus, sondern der Wandel bei den Einstellungen der Mitarbeiter.

More than just a technical migration

Vertical Operating Distribution Shared Model Responsiblity

Security concepts need to adopt these changes.

Paradigm shifts in IT security

Decentralization changes security models





Physical security controls are obsolete





Basic security principles

Security by Default – Four security principles

Identity Federation

Multi Factor Authentication

Short Living Credentials

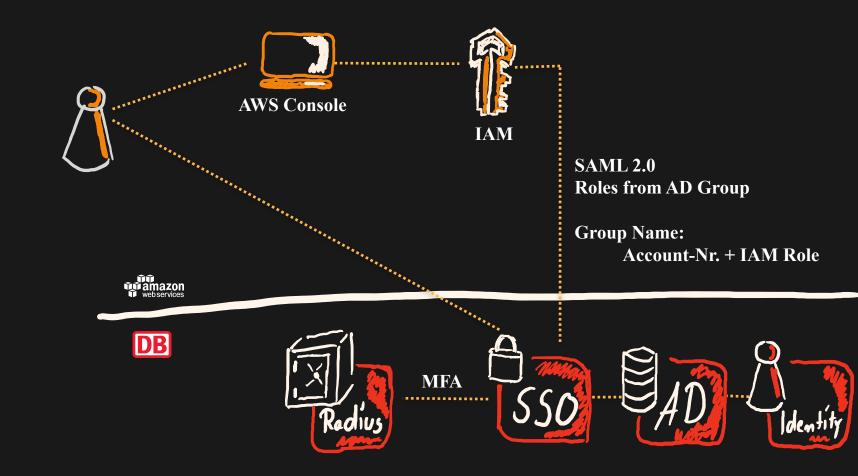
Access Control & Isolation

Access security architecture

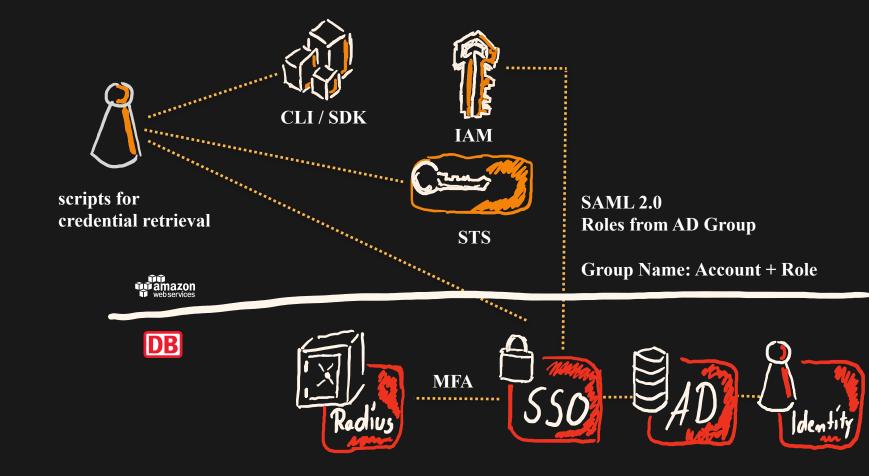
Access Security Architecture



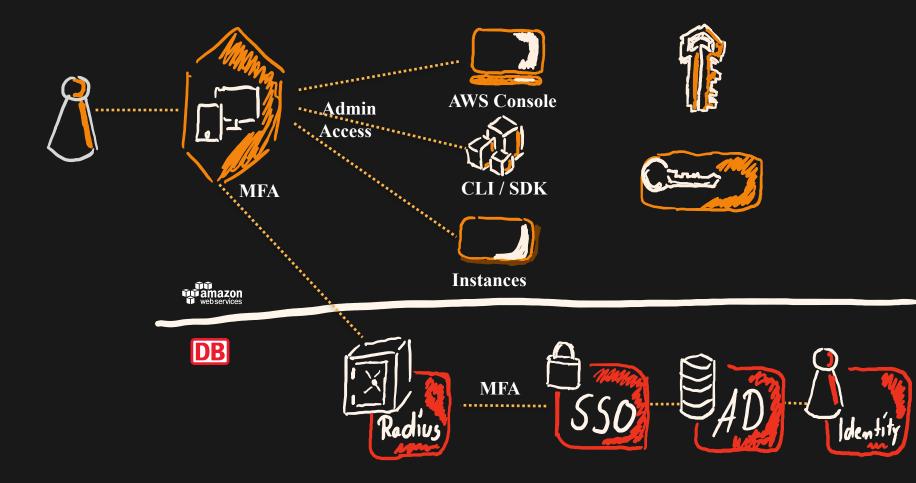
Identity Federation



Short Living Credentials



Access Control & Isolation



Demo





Please log in with your WorkSpaces credentials

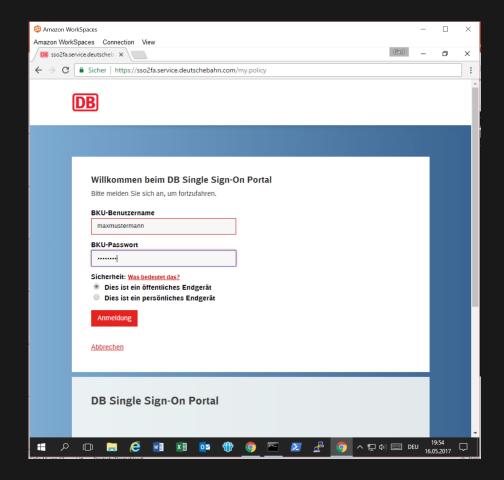
maxmustermann

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Sign In

Forgot Password?



```
D:\Users\maxmustermann>token
Please provide BKU credentials to login.
BKU-Username: maxmustermann
BKU-Passwort:
Please choose the role you would like to assume:
[ 0 ]: arn:aws:iam::123456789012:role/NetworkAdmin
[ 1 ]: arn:aws:iam::123456789012:role/BasisTeam
Selection:
Your new access key pair has been stored in the AWS configuration file {0} under the
saml profile.
After this time you may safely rerun this script to refresh your access key pair.
To use this credential call the AWS CLI with the --profile option (e.g. aws --profile
saml ec2 describe-instances).
                                                       [saml]
                                                       output = json
                                                       region = eu-central-1
                                                       aws access key id = AKIAIOSFODNN7EXAMPLE
                                                       aws secret access key = wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY
                                                       aws session token = FQoDYXdzEBsaDJczmHX3A0yCu1d8vyKrAkTpkLJfSzV6WDHN4cu0Rapn9zN5tmcOOZXLW2FJoN1ha4
                                                       [lab]
                                                       region = eu-central-1
                                                       output = json
                                                       role arn = arn:aws:iam::987654321012:role/ServiceTeam
                                                       source profile = saml
                                                   13
```

