

Eric Berg

- Global Subject Lead Cloud Compute
- Cloud, Datacenter and Management
- 🔞 Azure, AWS, VMware Cloud
- info@ericberg.de
- www.ericberg.de | www.geekzeugs.de









Health Check?!

an occasion when a **doctor or nurse** examines **someone's body,** takes blood **tests**, etc. in order to **make sure** the person has **no health problems**...

an occasion when an **IT Expert** examines **someone's IT landscape**, with doing **tests**, etc. in order to **make sure** the environment has **no health problems**...

Health = Security ?!



Health Check?!

Health is even more:

Decision Making on IT

Service and Financial Reporting

Monitoring

Policies and Compliance

Standards and Practices

Tools

Security

. . .



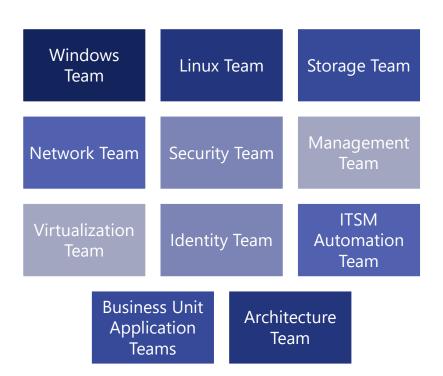




OLD IT

VS.

CLOUD WORLD



Corporate Cloud Architecture & Operations

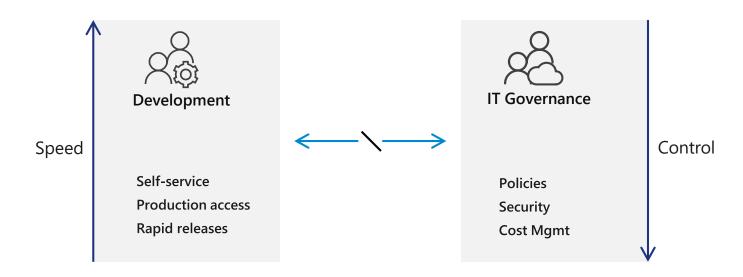
Application DevOps Teams

Security



TRADITIONAL APPROACH NEEDS RETHINKING

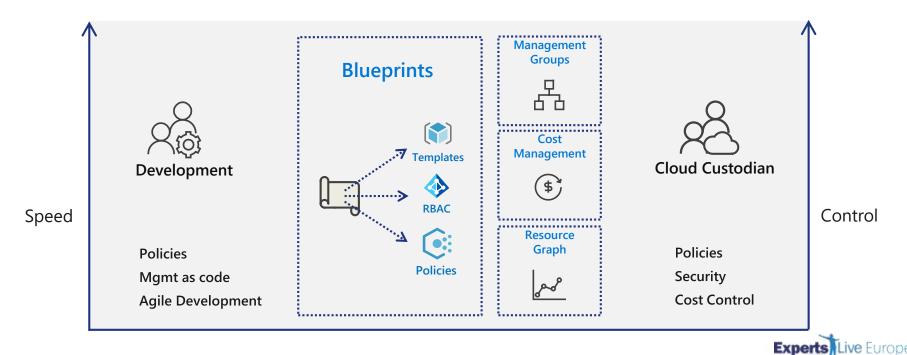
Speed versus Control





BUILT-IN MODERN GOVERNANCE

Speed and Control



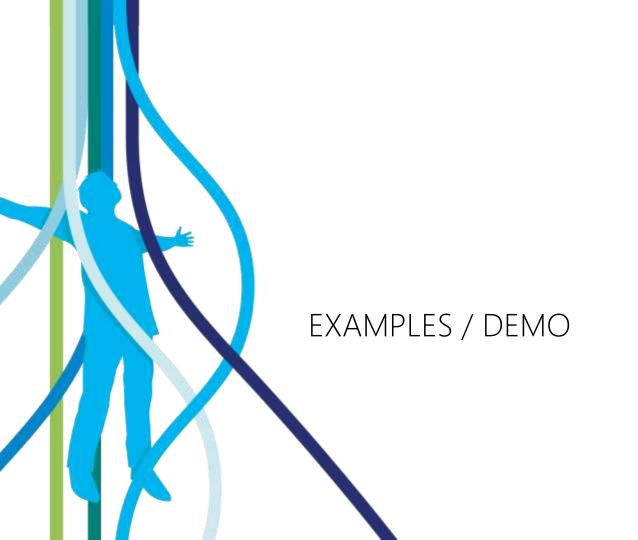
OLD IT

Windows Linux Team eam Team New Release takes months Health Check Yearly or less **Network Team** Automation **Business Unit** Architecture **Application** Team Teams

VS. NEW CLOUD WORLD

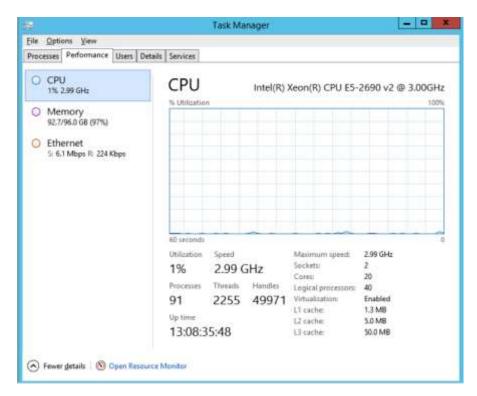






EXAMPLES - NOTHING NEW ©

Never touch a running system

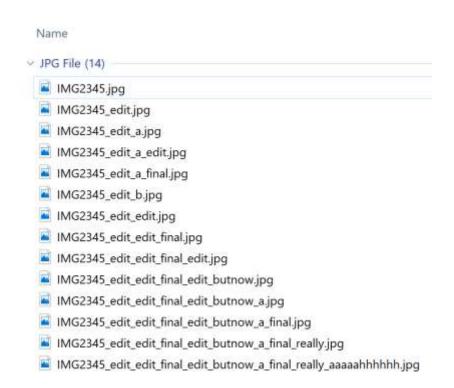




EXAMPLES - NOTHING NEW ©

Never touch a running system

Never touch an old file



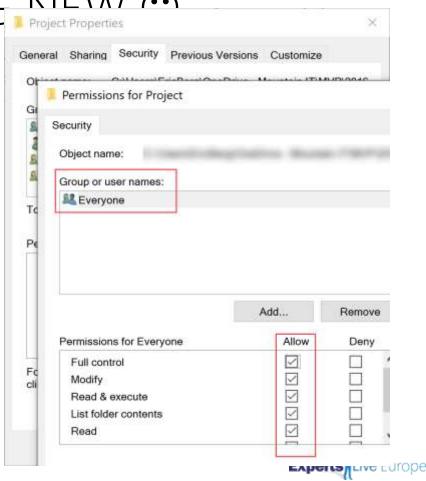


EXAMPLES - NOTHING NEW PORTION

Never touch a running system

Never touch an old file

There are never enough rights



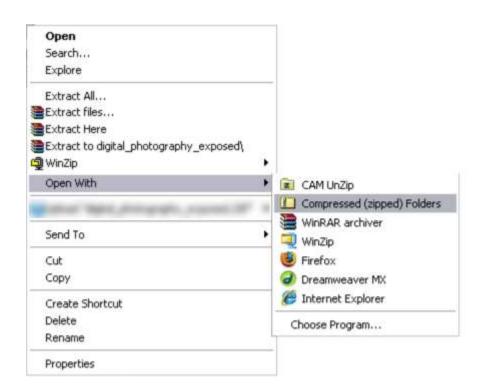
EXAMPLES - NOTHING NEW ©

Never touch a running system

Never touch an old file

There are never enough rights

Use the right tool



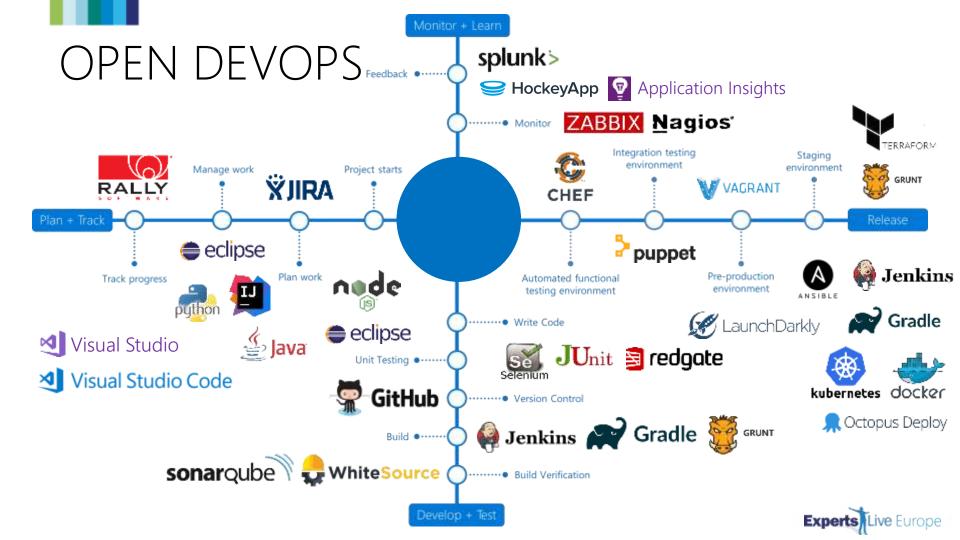


EXAMPLES - CLOUD

Running Resources without usage Empty Resource Groups Too many Owners 4 DevOps Stacks "in use"







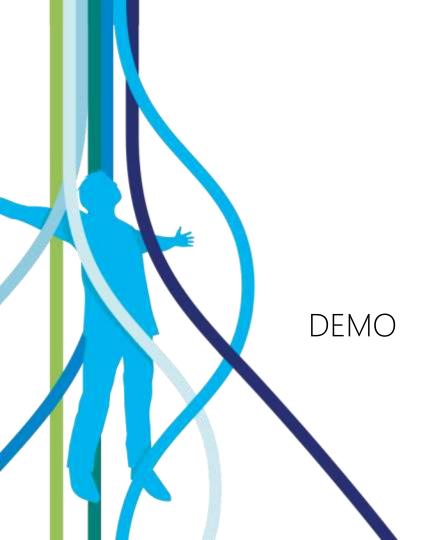
EXAMPLES - CLOUD

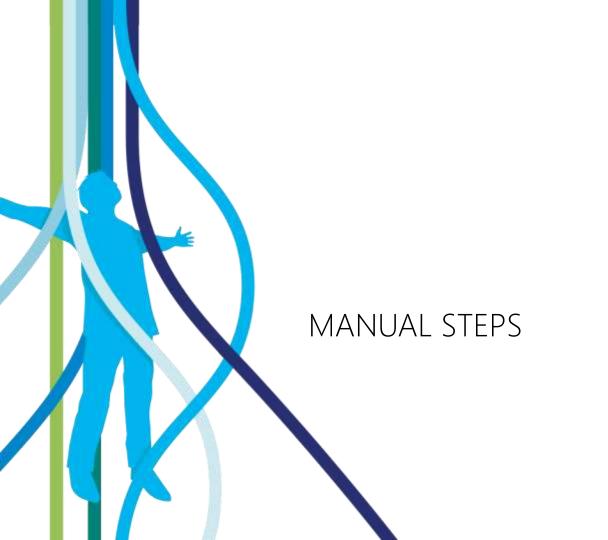
Running Resources without usage **Empty Resource Groups** Too many Owners 4 DevOps Stacks "in use" No cost control No policy set up No logging and auditing No monitoring No clue of shared responsibility model



• • •







MANUAL STEPS

Check Role-Based Access Controls

Check Resource Groups - Naming, Location, Usage

Check Resources - Naming, Location, Usage

Check Tags

Check Security

Check Updates

Check Activity Logs

Check Cost Management

...



NOW THINK ABOUT LARGE SCALE – MORE THAN xxx SUBSCRIPTIONS – HAPPY HEALTH CHECK







MAIN RULES

YOU NEED AZURE GOVERNANCE AS BASIS FOR HEALTH CHECK

IMPLEMENT GOVERNANCE IN TOOLS

IMPLEMENT GOVERNANCE IN MINDS

AUDIT AND KEEP LOGS FOR ANALYSIS

ESTABLISH A CODE FIRST PRACTICE

HEALTH CHECK AS YOUR DAILY BUSINESS

RENAME HEALTH CHECK TO CLOUD OPERATIONS:-)



AZURE GOVERNANCE ARCHITECTURE

1. Environment Factory: **ARM Templates** Deploy and update Policy Definitions Role-based cloud environments in a repeatable manner using composable **Azure Portal** CLI 3rd party artifacts Management Groups Subscriptions **CRUD** Query Azure **Policy Engine Azure** Resource Blueprints Graph **Azure Resource Manager (ARM)** Virtual Resource Storage Network Machine **Provider**

Experts Live Europe

TOOLS TO USE

AZURE POLICY

AZURE RESOURCE GRAPH

AZURE AUTOMATION

AZURE MONITOR

AZURE SECURITY CENTER

AZURE ADVISOR

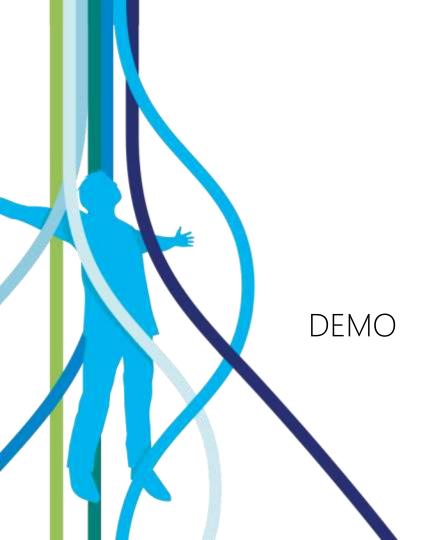
AZURE AD PIM

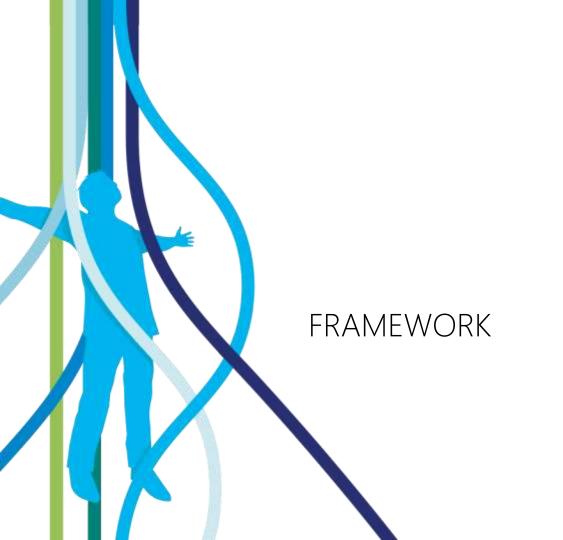
AZURE AD MFA

. . .





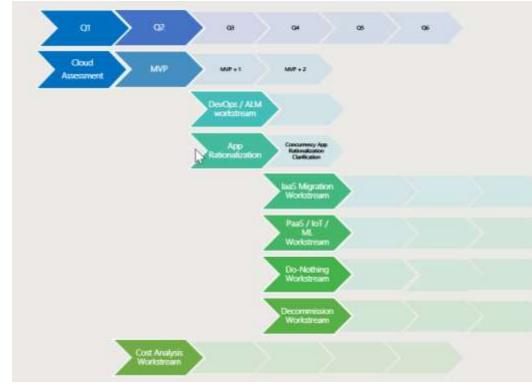




FRAMEWORK

. . .

Bring the tools together
Build your workflows
Define your output
Alerts - Logs - LogicApps
Integrate in Tool-Stacks





Thank you Sponsors!



make it noble











ShareGate:







ALTARO







Please submit your feedback

Don't forget to rate this session in the conference app

Thank you!

