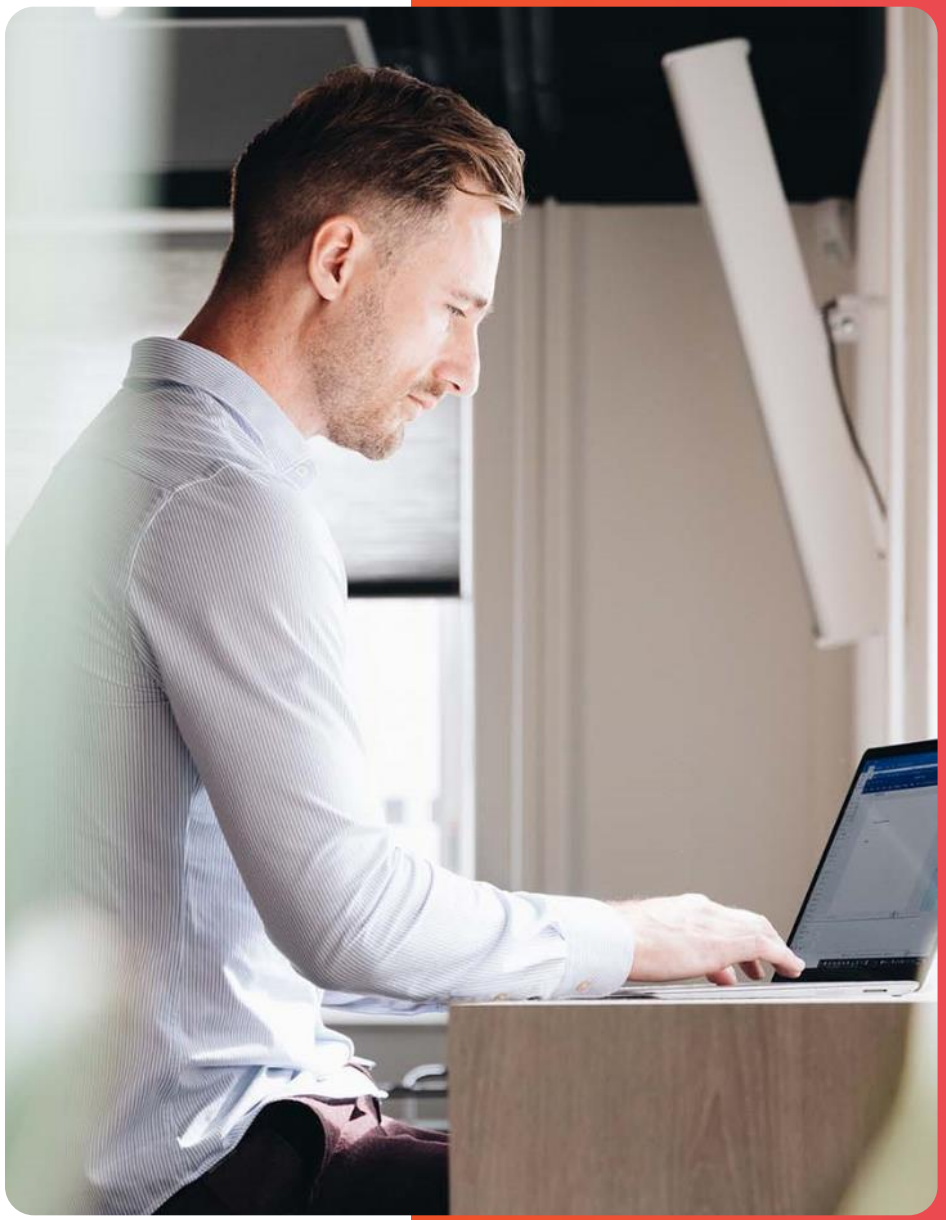
Infrastructure as Code

Webinar – dit.dk

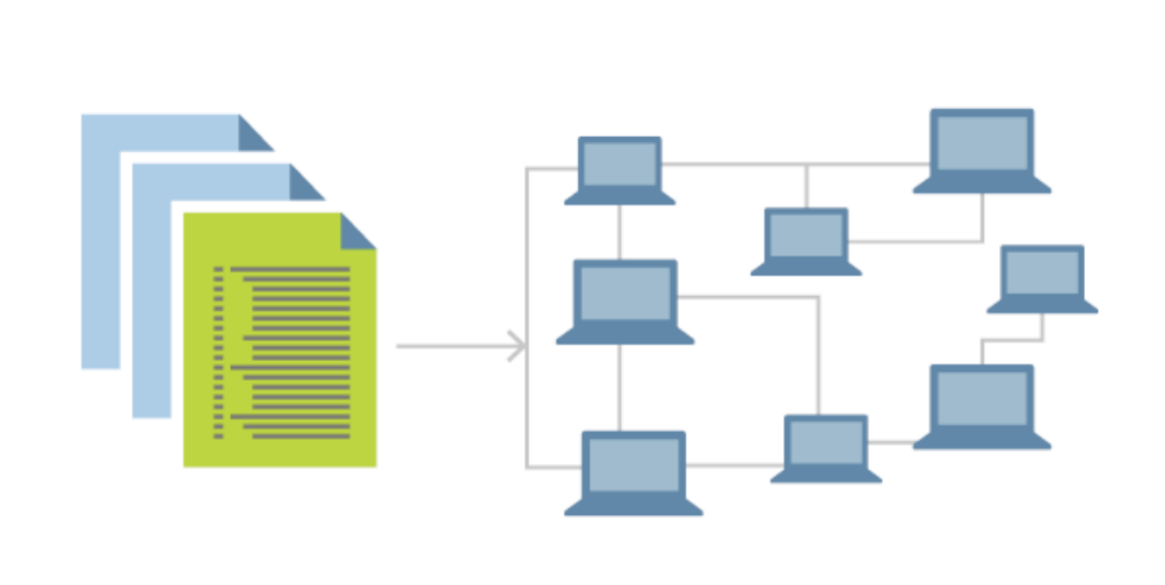


Agenda

Punkter Headline

- Introduktion til IaC
- Live demo
- Erfaringer og bedste praksis
- Q&A

Hvad og Hvorfor Infrastructrue As Code (IaC)?



Undgå manuel konfiguration for at sikre ensartethed.

Lever stabile testmiljøer hurtigt.

Mulighed for test af Infrastruktur for compliance, megalinter eller andet tools.

IaC udbyder

Værktøj	Cloud-understøttelse	Sprog / tilgang	State management	Fordele	Ulemper
Terraform	Multi-cloud (Azure, AWS, GCP, m.fl.)	HCL (deklarativ)	Ja (.tfstate)	Modent, stort økosystem, multi-cloud	Kræver state-håndtering
Bicep	Kun Azure	Bicep DSL (deklarativ)	Nej (ARM håndterer state)	Simpelt, Azure-native, letlæseligt	Kun Azure, ingen rollback
ARM Templates	Kun Azure	JSON (deklarativ)	Nej (ARM håndterer state)	Stabil, officiel Azure standard	Tungere syntaks, svært at vedligeholde
Pulumi	Multi-cloud (Azure, AWS, GCP)	Rigtige sprog (C#, Python, TS)	Ja	Fleksibel, udviklervenlig	Kræver kodekompetencer

Cloud udbyder

Cloud	Mest anvendte IaC-værktøjer	Kommentar
Azure	Bicep, Terraform, ARM, Pulumi	Bicep er Microsofts anbefalede løsning; Terraform bruges bredt i multi-cloud miljøer.
AWS	Terraform, Pulumi, CloudFormation	Terraform er mest udbredt; CloudFormation er AWS' native løsning.
Google Cloud	Terraform, Pulumi	Terraform dominerer; Google har også *Deployment Manager* men den er mindre brugt.
Multi-cloud / hybrid	Terraform, Pulumi	Begge understøtter mange providers og passer godt til enterprise-scenarier.

automatisering, governance og samarbejde mellem udvikling og drift

Infrastructure DevOps CI, testing og compliance testing

Infrastructure DevOps CD, deployment

Governance, eksemple vis ISO27001 ved bruge af CAF og PSRules

Ops Infrastructure og Dev infrastructure til application

Live Demo

Afslutning

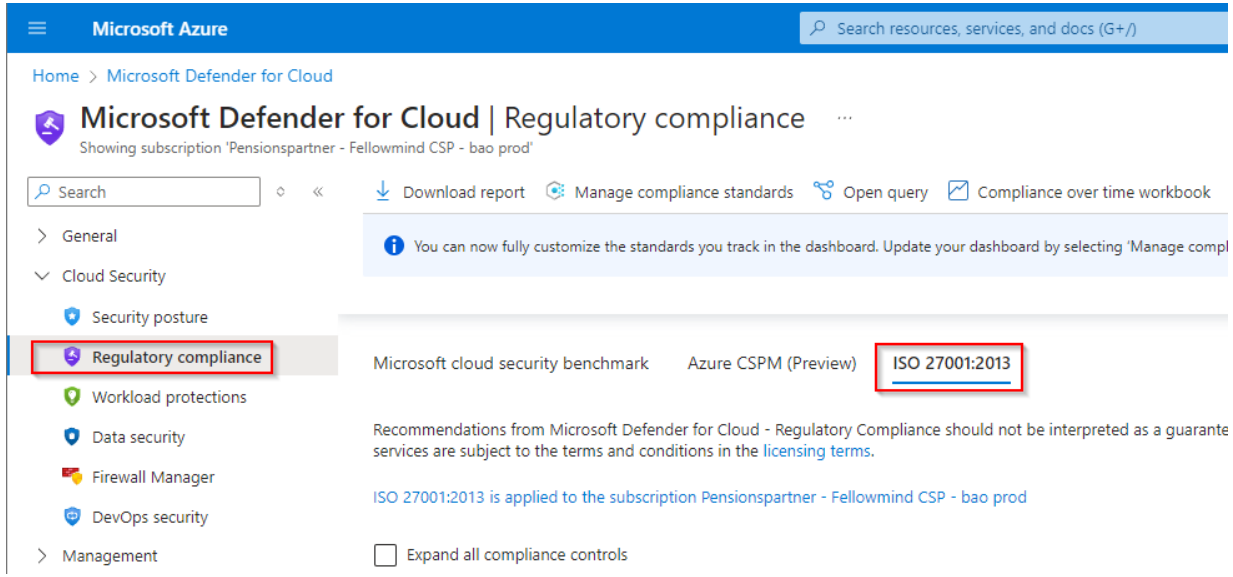
Hvad man bør overveje, inden man går i gang – kultur, værktøjer, governance og sikkerhed samt uddannelse.

Tips til at starte småt og skalere – “IaC som en rejse”.

Anbefalinger til næste skridt: vidensdeling, versionering, automatisering og dokumentation.

De vigtigste erfaringer fra virkelige projekter med IaC. (se næste slide)

Compliance


Microsoft Azure
Search resources, services, and docs (G+/)
Home > Microsoft Defender for Cloud
Microsoft Defender for Cloud | Regulatory compliance
Showing subscription 'Pensionspartner - Fellowmind CSP - bao prod'
Search
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Cloud Security
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DevOps security
Management
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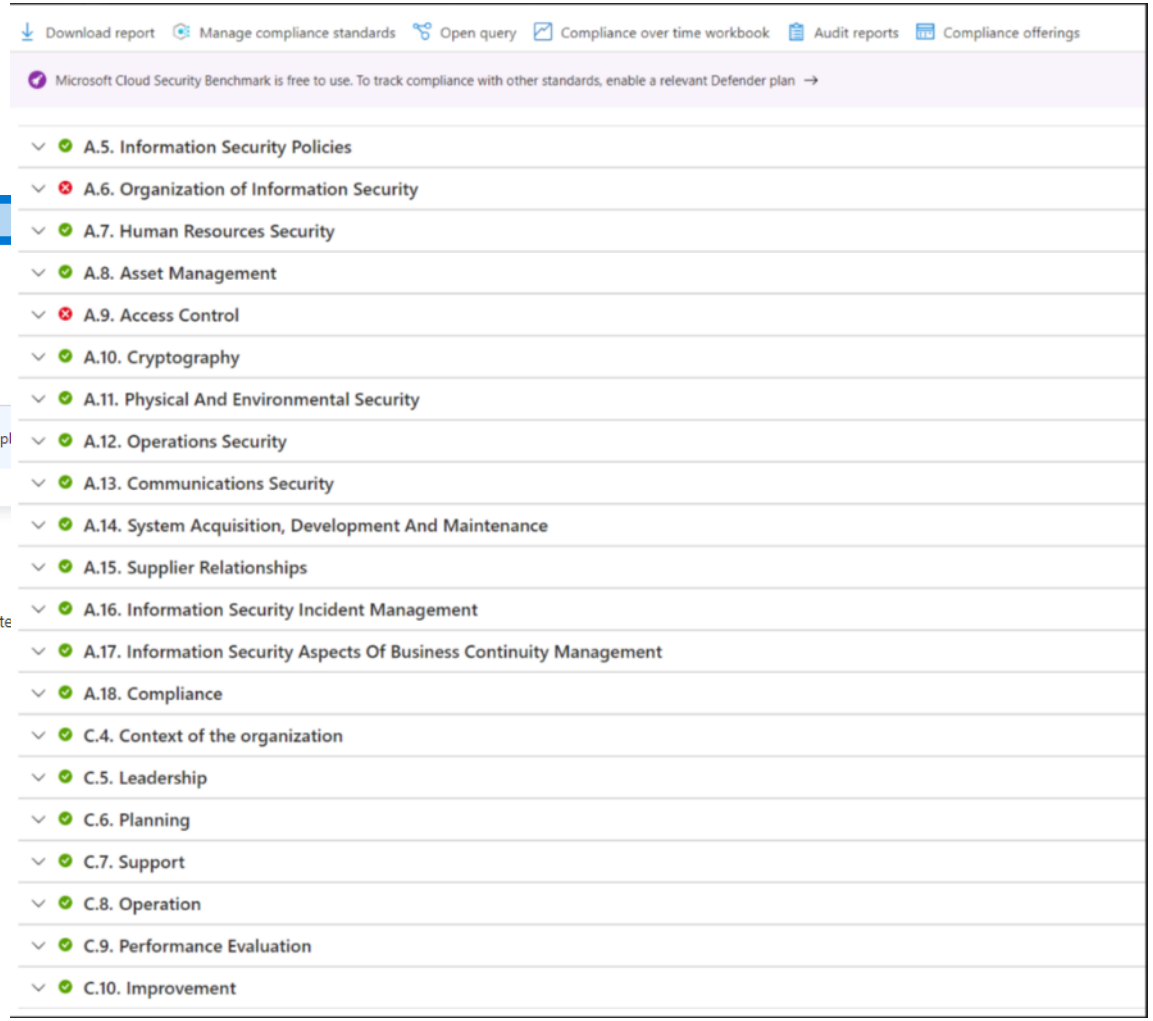
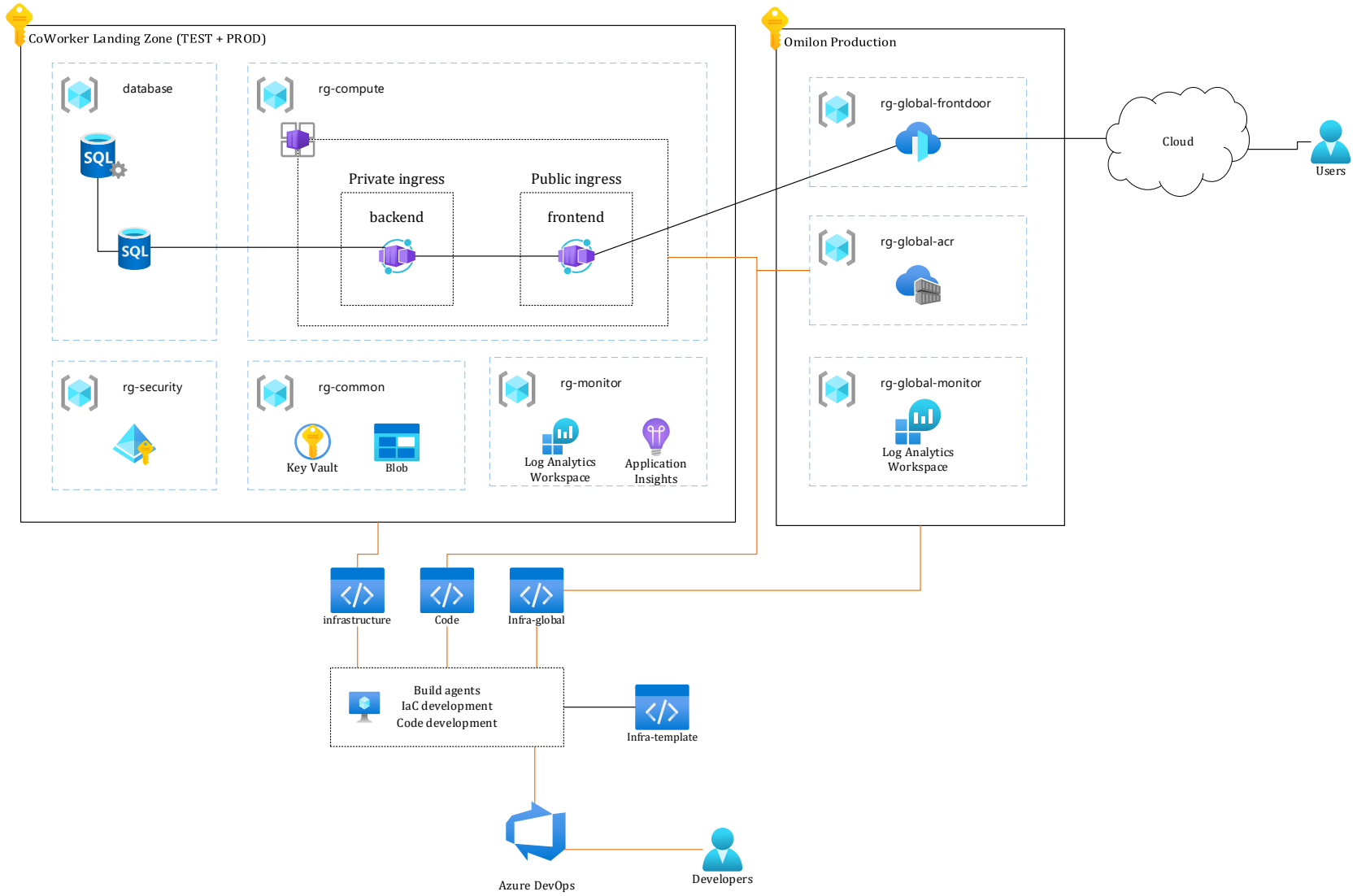
Open query
Compliance over time workbook
You can now fully customize the standards you track in the dashboard. Update your dashboard by selecting 'Manage compl
Microsoft cloud security benchmark
Azure CSPM (Preview)
ISO 27001:2013
Recommendations from Microsoft Defender for Cloud - Regulatory Compliance should not be interpreted as a guarante
services are subject to the terms and conditions in the licensing terms.
ISO 27001:2013 is applied to the subscription Pensionspartner - Fellowmind CSP - bao prod
Expand all compliance controls


Download report
Manage compliance standards
Open query
Compliance over time workbook
Audit reports
Compliance offerings
Microsoft Cloud Security Benchmark is free to use. To track compliance with other standards, enable a relevant Defender plan
A.5. Information Security Policies
A.6. Organization of Information Security
A.7. Human Resources Security
A.8. Asset Management
A.9. Access Control
A.10. Cryptography
A.11. Physical And Environmental Security
A.12. Operations Security
A.13. Communications Security
A.14. System Acquisition, Development And Maintenance
A.15. Supplier Relationships
A.16. Information Security Incident Management
A.17. Information Security Aspects Of Business Continuity Management
A.18. Compliance
C.4. Context of the organization
C.5. Leadership
C.6. Planning
C.7. Support
C.8. Operation
C.9. Performance Evaluation
C.10. Improvement

Platform Reference Architecture



Q & A