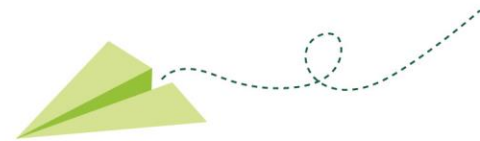




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Connect | Educate | Inspire | Secure





# (ISC)<sup>2</sup> Belux Chapter 4/apr/2019

## Dockers and Cloud security





## AGENDA

- » Foreword
- » **Container security pipedreams: A docker security 101**  
(Ronald Bister )
- » Break & getting to know each others
- » **Cloud security 101** (Peter Geelen)



# Forewords





# Container security pipedreams: A docker security 101

## Ronald Bister

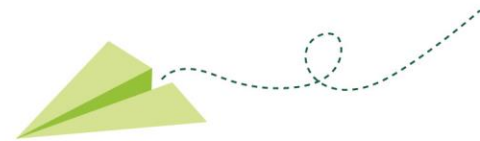


# Break!

Go get to know great people.



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# Cloud security 101

## Peter Geelen



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## Content

- » Cloud security? Where to get started?
- » **CCSK & CCSP, the evil twin.**
- » **CCSK**
- » **CCSP**
- » **Cloud security highlights & take-aways**





# Cloud security? Where to get started?

IT security operations	
IT security architecture	
Cloud security basics	
Cloud security professional	

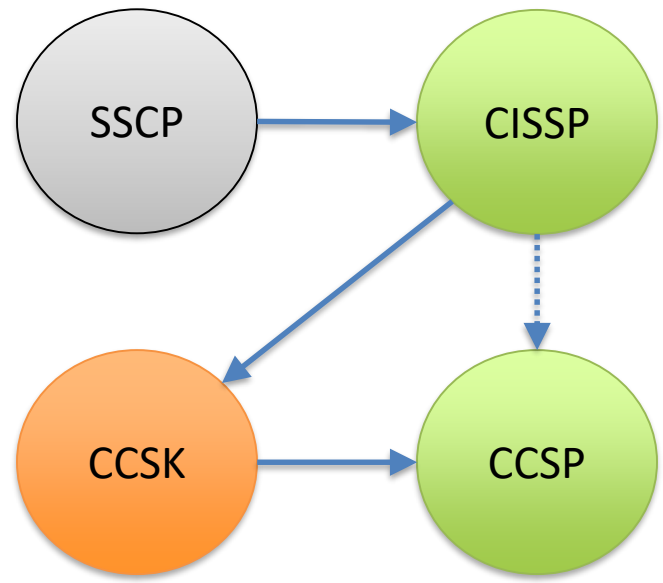




## Cloud security? Where to get started?

IT security operations	SSCP
IT security architecture	CISSP
Cloud security basics	CCSK
Cloud security professional	CCSP





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# CSA CCSK



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## CCSK (V4!)

- » Cloud security alliance
- » Small twin of CCSP
- » Online exam (2 shots)
- » Free study
- » Multiple choice exam
  - upgrade shot
  - difficulty



# CCSK (V4!)

1. Domain 1 Cloud Computing Concepts and Architectures
2. Domain 2: Governance and Enterprise Risk Management
3. Domain 3: Legal Issues, Contracts and Electronic Discovery
4. Domain 4: Compliance and Audit Management
5. Domain 5: Information Governance
6. Domain 6: Management Plane and Business Continuity
7. Domain 7: Infrastructure Security



## CCSK (V4!)

- 8. Domain 8: Virtualization and Containers**
- 9. Domain 9: Incident Response**
- 10. Domain 10: Application Security**
- 11. Domain 11: Data Security and Encryption**
- 12. Domain 12: Identity, Entitlement, and Access Management**
- 13. Domain 13: Security as a Service**
- 14. Domain 14: Related Technologies**



# CCSK (V4!)

- » *ENISA Cloud Computing: Benefits, Risks and Recommendations for Information Security*
- » *Cloud Security Alliance - Cloud Controls Matrix*





## CCSK (V4!)

- » <https://ccsk.cloudsecurityalliance.org>
- » [CCSK Study Materials](#)  
([https://cloudsecurityalliance.org/education/ccsk/#\\_prepare](https://cloudsecurityalliance.org/education/ccsk/#_prepare))
- » [https://cloudsecurityalliance.org/artifacts/ccskv4\\_exam\\_prep\\_kit](https://cloudsecurityalliance.org/artifacts/ccskv4_exam_prep_kit)
- » Download prep kit





## Download prep kit

- » **CSA Guidance** (DO NOT pay with your privacy)  
» <https://cloudsecurityalliance.org/download/security-guidance-v4/>
- » **Cloud Controls Matrix:** (DO NOT pay with your privacy)  
» <https://cloudsecurityalliance.org/download/artifacts/cloud-controls-matrix-v3-0-1/>
- » **ENISA (no privacy issue)**  
» [https://www.enisa.europa.eu/publications/cloud-computing-risk-assessment/at\\_download/fullReport](https://www.enisa.europa.eu/publications/cloud-computing-risk-assessment/at_download/fullReport)





**Book your exam** (and try 2x or save for vNext)

<https://ccsk.cloudsecurityalliance.org/en>

(no maintenance fee)

# CSA CCM



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# (ISC)<sup>2</sup> CCSP



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# Course Agenda v2017

- » Domain 1: Architectural Concepts & Design Requirements (157)
- » Domain 2: Cloud Data Security (250)
- » Domain 3: Cloud Platform and Infrastructure Security (153)
- » Domain 4: Cloud Application Security (91)
- » Domain 5: Operations (282)
- » Domain 6: Legal and Compliance (177)



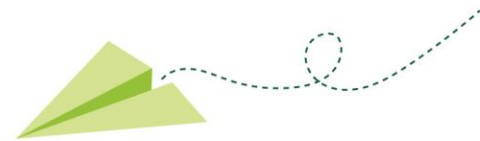
# Course Agenda (> 1 Aug 2019)

- » Domain 1: Cloud Concepts & Design Requirements (**17%**/19%)
- » **Domain 2: Cloud Data Security** (**19%**/20%)
- » Domain 3: Cloud Platform and Infrastructure Security (**17%**/19%)
- » Domain 4: Cloud Application Security (**17%**/15%)
- » Domain 5: Cloud security (**17%**/15%)
- » Domain 6: Legal, Risk and Compliance (**13%**/12%)
  
- » 125Q : Exam 3h (now 4H)

# Cloud security 10 principles





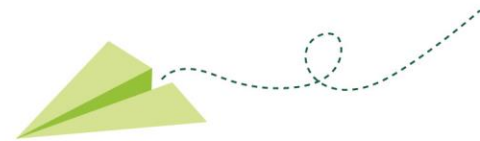


# 1. Plan for a good marriage.



Plan the exit.





## 2. Cloud or data center.



The same new sh....





# 3. Cloud is secure, right?

## YOUR responsibility





# 3. Cloud is secure, right?

## YOUR accountability





# Compensate for loss of control

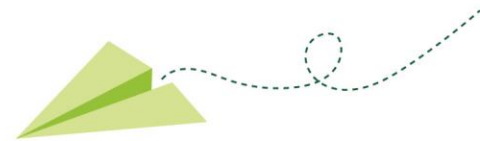
People

Process

Technology



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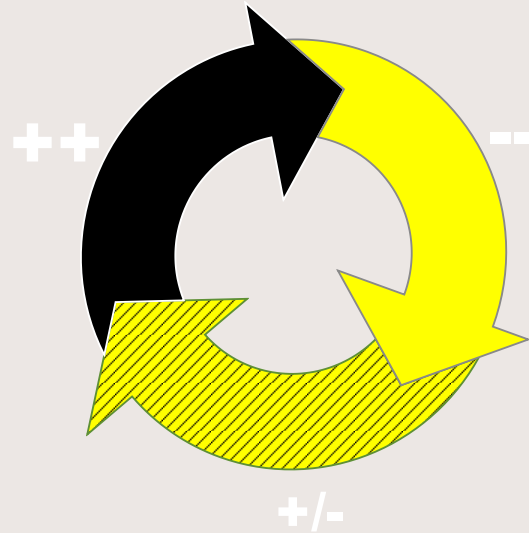


# 3. Identity, identity, identity.

## The circle of life

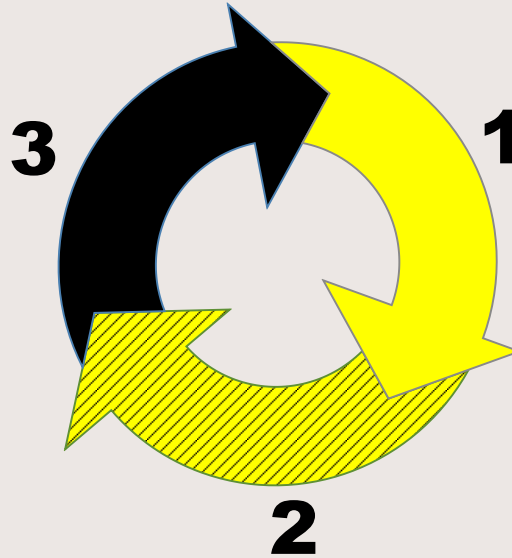


# The circle of life



**Out**

End-of-life  
Fire,  
termination,  
End-of-contract,  
deprovisioning,  
Revocation,  
delete, ...



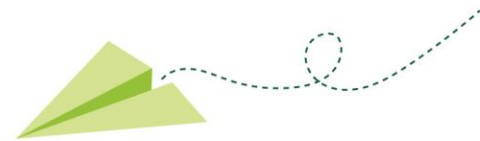
**In**

Start of identity  
Hire,  
onboarding,  
provisioning,  
create,  
Begin, ...

**Change**

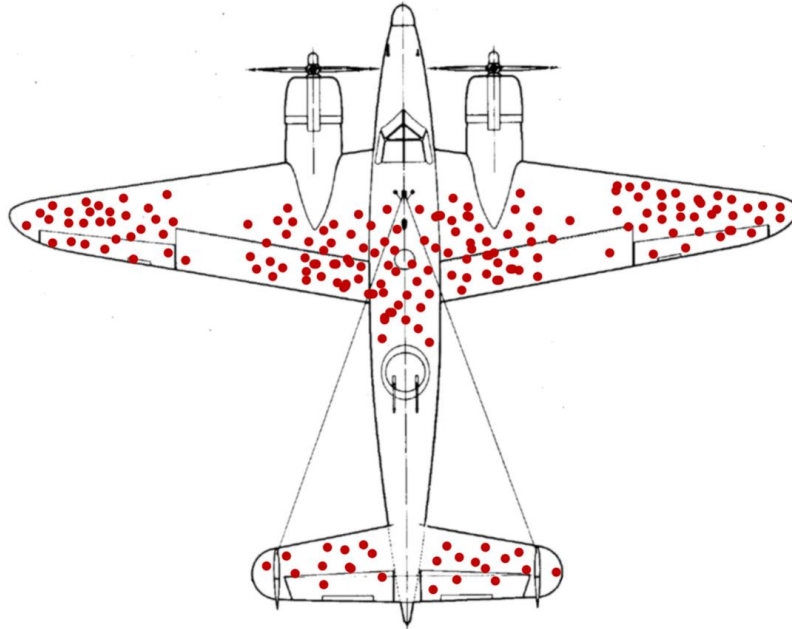
Change of identity, move,  
promotion, Update,  
maintenance, Operations,  
...





# 4. What you don't see





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## 4. What you don't see

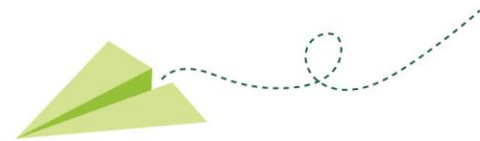
can hurt..





## » In a nutshell



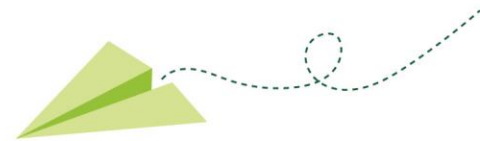


# 5. Zero trust. Use segmentation



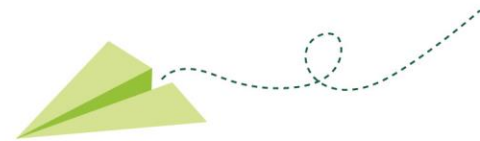
Infrastructure. Data. People.





# 6. Keep patching



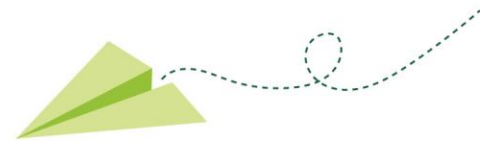


# 7. No security without awareness.



## Plan your communication





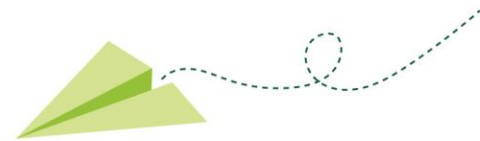
8. Give a lot, take some.



Difficult to crack. Easy to use

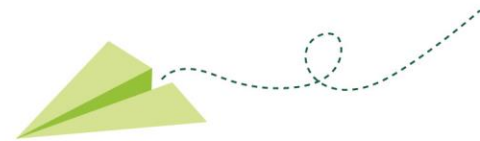






# 9. Manage the exceptions





# 10. Start over again



Security is a moving target.



# More info



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**Need more?**

CCSK > CCSP

ISO27001

ISO27005 (Risk)

ISO27032 (Cyber), 27035 (incident)...

[NIST Cyberframework](#)



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# Q & A



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Thank you for your continuous support!

Book the date  
**Thursday, 23<sup>rd</sup> of may**  
for our next event on  
**FIDO and 2FA: strategy and real life example**



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