

CI/CD/CDon't?

Deliberations on the threat model of continuous delivery systems

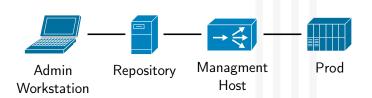
Jens Heinrich

Universitätsbibliothek Johann Christian Senckenberg

2020–03–14/15 CiderSecurityCon

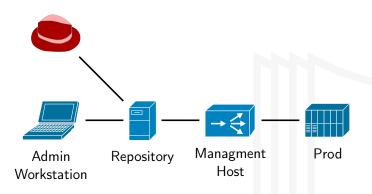
Concept-Pipeline





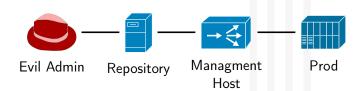






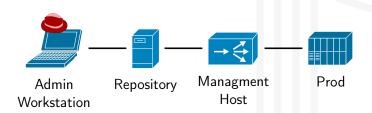
Attack Vectors-Evil Admin





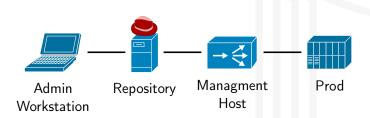






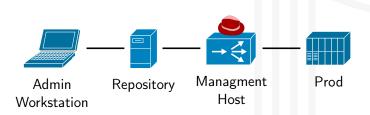






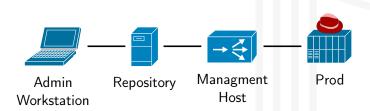






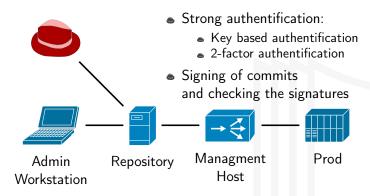








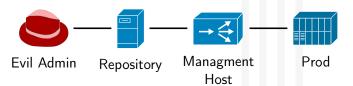




Mitigations-Evil Admin



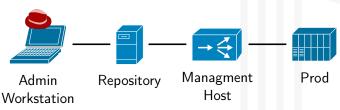
- Privilege Separation:
 - 2-man-rule
 - Enforced tests







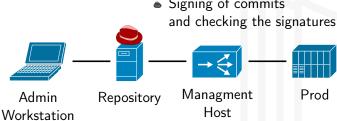
- Hardening measures:
 - Using dedicated hardware
 - Using hardware security modules for storage







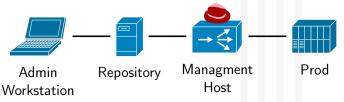
- Privilege Separation:
 - Enforced offsite/ offline backups
- Signing of commits







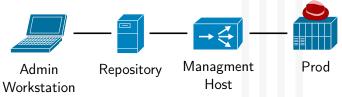
- Privilege Separation:
 - Enforced offsite/ offline backups
 - Splitting the infrastructure in groups
 - Regular self checks/ deploys







- Privilege Separation:
 - Enforced offsite/ offline backups
- Reproducable builds
 - JUST REDEPLOY AND RESTORE





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personally