**Lab 1.1 – BIV principes Game Ontwikkeling**

**Doelen:**

**Deel 1: In de ontwerpfase**

**Deel 2: Samenwerking met bedrijven**

**Deel 3: Opnemen van scenes in het buitenland**

**Achtergrond/Scenario**

We gaan met dit Lab in op welke onderdelen van BIV aangeraakt worden, wanneer we ons verplaatsen in de onderstaande beknopte casus. Hierbij kijk je vanuit het perspectief van de gamedeveloper naar de aandachtspunten op het gebied van beschikbaarheid, integriteit en vertrouwelijkheid.

**Vereiste bronnen**

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**Deel 1:**

Een gamedeveloper heeft een game ontwikkeld voor de Apple Store. Ze hebben ook plannen voor een nieuw spel. Het nieuwe spel bevindt zich nog in de ontwerpfase. Er zijn al wat levels uitgetekend op papier.

*Welke BIV-principes zijn waar in bovenstaande tekst en waarom belangrijk?*

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**Deel 2:**

De gamedeveloper heeft veel partijen waarmee zij samenwerkt. Zo werkt het bedrijf met echte acteurs die scenes spelen en met verschillende losse bedrijven die realistische 3d-modellen ontwikkelen. Met deze bedrijven wordt veel samengewerkt.

*Welke BIV-principes zijn waar en waarom belangrijk?*

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**Deel 3:**

De scenes worden in het buitenland opgenomen.

*Welke BIV-principes zijn hierbij en waarom belangrijk?*

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**Lab 1.2 – Checksum**

**Doelen:**

**Deel 1: Winhasher**

**Deel 2: Verifiëren van de checksum in Powershell en CMD**

**Deel 3: Checksum in macOS en Linux**

**Deel 4: De ISO aanpassen en opnieuw verifiëren van de checksum**

**Achtergrond/Scenario**

Een checksum stelt je in staat om bepaalde fouten of informatieverlies te achterhalen. In het geval van een back-up kan het bijvoorbeeld voorkomen dat het opslagmedium defect aan het raken is. Door middel van een checksum weet je of je het oorspronkelijke bestand moet vervangen door de back-up, waarna je kan verifiëren of de back-up wel een identieke kopie is van het origineel.

**Vereiste bronnen**

Winhasher, Windows 10 Powershell en Command Line Interface

**Deel 1: Winhasher** (indien je met macOS of Linux werkt ga naar Deel 3)

1. Download het programma WinHasher <https://github.com/gpfjeff/winhasher>

Table

Description automatically generated

1. Installeer WinHasher en start daarna Winhasher op

![Graphical user interface, text, application, email

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDoRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAUAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGdsb3B1bGlzYQAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADOTYAAJKSAAIAAAADOTYAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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1. Kopieer de SHA1 Hash van de website waar je Winhasher hebt gedownload in het veld Compare to van Winhasher

Table

Description automatically generated Graphical user interface, text, application, email

Description automatically generated

1. Klik op de button Browse en verwijs naar naar het setup bestand van Winhasher
2. Welk resultaat verwacht je als je de hash van het setup bestand gaat vergelijken met de hash die je net hebt gekopieerd?

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1. Klik op de button Compute Hash

![Graphical user interface, text, application, email

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDoRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAUAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGdsb3B1bGlzYQAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADMjAAAJKSAAIAAAADMjAAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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p6nq1ho1r9p1KdYIs4B2liT6AAEn8KA3NL+1rD/n7i/wC+qP7WsP8An7i/76rCsfFOiak8KWd6ryTOURGjZWJALYwQCOATzWvgelAE39rWH/P3F/31R/a1h/z9xf8AfVQ4HpRgelAE39rWH/P3F/31R/a1h/z9xf8AfVQ4HpRgelAE39rWH/P3F/31ViGeK4j8yB1kTOMqao4HpUmk/wDHvN/13f8AnQBz1x/yH9W/6+U/9ERUUXH/ACH9W/6+U/8AREVFAGmn/I4W/wD15T/+jIaj8Z6Xc6noaGxTzbi0uIrpIsgeYY3DbcnpnGKdEHHjG33sp/0KfouP+WkPvW9QNHnurXF145+x2lnpV/Zx2cn2iaW8t2h+YKQEXcBuzk8j0rn72K61zw7oukf2HqHm6dbyRXAuLJwm4W7qNpIw3zYwR7V7FRR0aA8ajbSl1lo7vw3d3IOjwRRQLpzM0ThpAcpt+Tn+LitCzGpeHbS/0/VNN1G6ub/T4kjlt7d5l3qhBDMoIB5716cljbR30l6kKi5kQRvKOrKCSB+pqene979Rdf68v8jz/wCG+m/2Teajbz6VJaTyxwSCU2pRWXyUBG/GCdwORVKTw8bTTb+WPRj5H9tGa4ght8NcQBewAywyen1r02ilLX7rfl/kC0PJrfw//amu2lwmiTw6NJfPJFazW7RiMCBwS0ZHygt2I71Jpfg6KNdFEmiYAivBOGt+OWOwNx+QP4V6rRR0sv60a/UDxHVrLVp9EsbLULDUImh09PszW2lLcu8mPmV3dG8vHHTBrp/AtlHpC6wmp6NOryW8MshNkW85fIQMucfM24HK9c16PRVc2rff/hwetvIZCVMKGNSilRhSu3A9MdqfRRUgUdV/1EP/AF3T+dcLr+nXmpfESxjsNXudLddPlJkt443LDenHzqRXc6uwW1iZuizIScdBmqf2y037t67sYztOaOqf9bB0seQaimqadc39nLqyyWr6kFvL++JiXHkoV3NDs2jOBkYqWW71W30e1Gk6ob+9EsgX7I0hjFr8u5gXJLY4w2T1PNesPcWEisr+WwY5YFM5/ShbiwTGzy1wMDCYwPTpQtF934L+vloD1d/6/r/gHk3ivV7GRETT9QgthY2cb2s13fTq90CoIKKrgMR33A+9R6/eWd7pGpHxBqM0eqiFDZW32hkDxmNTuCAgPlt2SQa9aZ9MfG6OFtowMxdP0pWl052DOsTMBgEx5IH5U76387g9fuPKZrjVZvE9w0+r2VlfRXW22t5HnMzRZ42xK+xgR32nFaEF1pj3bzavrd7b+IxeMotoZm3bd+FAh6FSuMtt6HOa9HM+ntKJCIzIOjmPkfjigzaeZvNIjMn9/wAvn88VNtLD63PIYBc32kX13NqN95traW7Qlbh12sXkBJAPPHrWrq15HpEWp6TLI/2SS7jRZ7u8lRLfKbyzSBgwBPGMjqBXpQuLAAgeWAeo2df0oeewkBEgjcN1DR5z+lU2m/68v8hLR3PMfAd3JceIrKN7uO7jt57mOKSKR5E2+XGflZyWIyT1Jr1qqcc9hFjyhGmOm2PH9Kk+323/AD1/Q027pCS1LFFV/t9t/wA9f0NH2+2/56/oakZYoqv9vtv+ev6Gj7fbf89f0NABfWaX9lJbSsyrIMbkYgg9jkVgDT9cvSNM1GULZRH57mNsPcL2Xjp6E1v/AG+2/wCev6Gj7fbf89f0NACugjks0XosygZPsa0b3/jwuP8Ark38qyjcxT3VqsTbiJgcAHpg1q3v/Hhcf9cm/lQBRg/494/9wfyqSoYJE+zx/Ov3B39qk8xP76/nQA6uW1wxJ460Nr4oLcxzCPzOnm5Tb+OM4/Gun8xP76/nVTUtP07V7NrXUoYriFuqOaNmmHSxyHjG/tLLxDp9xYi3kvbZ5pJkTG/It3K7sc/nVV9Y1zTY1f8AtuO9bULGS4jFwI40tWUZGGAHy84+bPSutsvDWgacka2VhbxCJiyY5wSCCeT6Eii08NaBYtcm0sLeM3QxNjnePTk0rf19/wDXyHfW/oeet4s8SWVm2mm5ubrUJrqKJWlWKOSIMjtkPtEbD5Rg4Ndp4Lu9bntru38QgGa2lCKzTxSSEFQfn8vCg8+g4xVyDwr4dt9OmsIdPtltZjmSPPDH881d03T9O0i0FtpsUVvCDnYhqk9/67EvoXqKb5if31/OjzE/vr+dIY6n6V/qJv8Aru/86i8xP76/nUmknNvMRyPPf+dAHP3H/If1b/r5T/0RFRTLoP8A8JBq21lA+0J1XP8Aywi96KANZP8AkcLf/ryn/wDRkNblcxbXxl8dWELQNG0ulTzEMeUPmQDaR+P6V09ABRRRQAUUUUAFFFFABRRRQAUUVneINQl0rw3qOoW4VpbW1kmQOMglVJGfbigDRorn7ew8aXFtFMNW0VRIgbH2CXjIz/z1rM1rVPEfh9ovtmr6JcSGaFWtY7SRJGR5VQkZkOMbvSgDs6KRmCqSxwAMk1zEfxB0Z35jvUgbd5N09uRDPgE/I/RuAT+FAHUUVDZ3Ud9ZQ3UGTFPGsiZGDgjIqajYAooooAKKKq6lqEGlabPfXZYQ26GRyoycAZPFAFqimQyrPCksf3XUMM+hp9ABRRTJpo4IXlmcJGg3MzHAA9aAH0UyGaO4gSaB1kjkUMjqchgeQafQAUVmR+IdNfVZtONwEuYnCbH43EruwvrwCavW11BeW6z2sqyxMSA6nIODg/qKPMCWiqep6nb6RYm7vCwiVlU7VycsQB+pq4DkUAFIyhlKsAQRgg96qX+qW2nSWqXJYNdTCGPaufmIJ5/KrlAFb+zbL/n0g/79ij+zbL/n0g/79irNFAFb+zbL/n0g/wC/Yo/s2y/59IP+/YqzRQBW/s2y/wCfSD/v2KP7Nsv+fSD/AL9irNFAFb+zbL/n0g/79ij+zbL/AJ9IP+/YqzRQBW/s2y/59IP+/Yo/s2y/59IP+/YqzRQBW/s2y/59IP8Av2KmihjgTZCixr1wowKfRQByFx/yH9W/6+U/9ERUUXH/ACH9W/6+U/8AREVFAFfR9QXVvHWjaikbRLd+H55hG3Vd0tscH867eufjtol8cWsyoA66dcRqRxhfMgOMdOwroKXewBRRRTAKKKKACiiigAooooAKxPGn/Ii65/14Tf8AoBrbqpqunx6to93p0zskd1C8LMnUBhjI/OgDm38SeJNGCac2lnUHuo0/s+4hUBB8oyJPTHrznNQa54a/sfwjNfahN9s1a6vbM3Nyf+viP5V9FH9K1Y9A1yKJI4/GOohUUKo+zW/AH/bOorrwrqWoxpDqXinULq3WWOVoWggUOUcMASqA9VFAHQ3LRJayNccRBTv4zxXlt9fnRtPhstC1yHVdKu4pIUs/LBktV8tiH3ZzgYxggda9X69aow6HpNtNJNb6XZRSygiR47dFZweuSBzStqx3PN86p4Z0nSLnTtTvruW70x2ME0peNWWDcuxO3IFSpcXpme10XxDeX32mwe4nd7gubeRSpAB/gyC3HtXpn2W3/d/uIv3QxH8g+QYxgenFRWul6fY+b9isba387mTyYVTf9cDmnK7d/X9f8/wEtLf12PMLDxNrer6hb7bueKDWpI3tAuR5axMN49gyqxP1rs/GN7caNb2Wrx3MkdtaTYuowfleNsZJHtj9a30srWLyvLtoU8n/AFe2MDZ249KfPBDdQtDcxJNE4wySKGVh7g05aqyBb6nkep6l4oeHSIBffZ01KOW7klub57URsSu2ISKrYwCePaqepyazqmg6jFrGuSbLXSJJSLKdzHIRI4BJYAtwADxzj3r2O602xvrdYL2yt7mFTlY5oldR+BFB02xMZjNnblGj8or5S4Kf3cY6e1LTWw76ps8wOq3mjw7NB1q51VJdOMsxklMwt3BUAr/d4Lce1S3d9c2cOo2mjeJprm3a1jlN5dXDP5UhkQFQ4BKZBP0z7V6PaaRptgsi2On2tssv+sEMKpv+uBzSQ6Ppltby29vp1pFDNzJHHAqq/wBQBg0PX+vUmKtb+u3+R5Adf1+WwttMs9QmCPdyRy3d5ftGFARCoW4QMSCSeSB6dq7LTxqV98M9Th1e+jnlVJUWezuHc7R0HmMoLH3xzXWf2JpX2H7F/Zln9kzn7P8AZ18vPrtxirMVrbwWwt4YI44ANoiRAFA9MdKJaxa7jWjT7HmNrMh03StPm8RXlhYR6Ss0dxHdlWkl5ypfvjH3fbFMTWb7U4c61rV1pTW9ik1uIpTD9oclgc/3vurx716O+haRLapbSaXZPBGxZImt0Kqc5yBjAOakutK0+98v7ZYW1x5X+r82FW2fTI4pPVt93/n/AJ/gCVv69P8AL8Txy38zUfGunajql3cWc7zQtLslMS7zak4I9zxj3xVzTtTm1K6mTVfFF9YrDZebEI7ox7386UZ/2uFAx7V6xPpen3LbrmxtpjuD5khVvmHQ8jqPWsw+D9HfWpNRns7ecvEsSwyQIyR7WZsqCOCSxqnqrbB5nP69cXmqfCW2nvWaK7uFgMjBcFWLrzisXxJea34WmvbLSNSvLwSwwSF725ZvJ3ybWYNglVA54HFepywRTReXNEkicfK6gjjpxTZLO2mZzNbxSF02OWQHcvofUe1KWrdur/pBHRJPoeNtda3CkCahqltdxxXcTwtBfSXTxsUkyTIyL6DgdMVu+EtRnF34ckt9eu9Ul1GDN9DNOZFi/dltwX+D5gB+Nd42g6YNPezt7G2t4myQIYVXaSMbgAOvvUeh+HNN8P2UMNhawrJHEsTXAiVZJABjLEDnpVJrX+uhLWljVoooqSgooooAKKKKACiiigAooooAKKKKAOQuP+Q/q3/Xyn/oiKiidc6/q3/Xyn/oiKigDdmtjFrEd8vPlwSRbOmdzIc59tn60r6o6f8ALsD/ANtP/rUUUAM/th/+fUf9/f8A61H9sP8A8+o/7+//AFqKKAD+2H/59R/39/8ArUf2w/8Az6j/AL+//WoooAP7Yf8A59R/39/+tR/bD/8APqP+/v8A9aiigA/th/8An1H/AH9/+tR/bD/8+o/7+/8A1qKKAD+2H/59R/39/wDrUf2w/wDz6j/v7/8AWoooAP7Yf/n1H/f3/wCtR/bD/wDPqP8Av7/9aiigA/th/wDn1H/f3/61H9sP/wA+o/7+/wD1qKKAD+2H/wCfUf8Af3/61H9sP/z6j/v7/wDWoooAP7Yf/n1H/f3/AOtR/bD/APPqP+/v/wBaiigA/th/+fUf9/f/AK1H9sP/AM+o/wC/v/1qKKAD+2H/AOfUf9/f/rUf2w//AD6j/v7/APWoooAP7Yf/AJ9R/wB/f/rUf2w//PqP+/v/ANaiigA/th/+fUf9/f8A61H9sP8A8+o/7+//AFqKKAD+2H/59R/39/8ArUf2w/8Az6j/AL+//WoooAP7Yf8A59R/39/+tR/bD/8APqP+/v8A9aiigA/th/8An1H/AH9/+tR/bD/8+o/7+/8A1qKKAD+2H/59R/39/wDrUf2w/wDz6j/v7/8AWoooAP7Yf/n1H/f3/wCtR/bD/wDPqP8Av7/9aiigA/th/wDn1H/f3/61H9sP/wA+o/7+/wD1qKKAD+2H/wCfUf8Af3/61H9sP/z6j/v7/wDWoooAP7Yf/n1H/f3/AOtR/bD/APPqP+/v/wBaiigA/th/+fUf9/f/AK1KurO3/LsP+/n/ANaiigCkLIve3dyx/wCPmUSbf7uI0TGe/wBzP40UUUAf/9k=)

1. Sluit Winhasher af

**Deel 2: Verifiëren van de checksum in Powershell en CMD**

1. Start de Powershell op
2. Navigeer naar de folder waar het setup bestand van Winhasher in staat
3. Tik het volgende commando in:

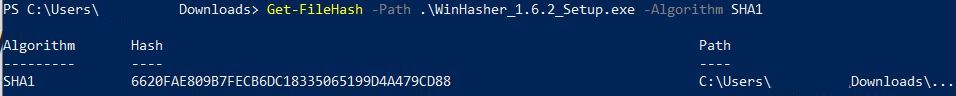
Get-FileHash -Path <naam van het setup bestand> -Algorithm SHA1

Je commmando kan er ook zo uit zien:

Get-FileHash -Path .\Winhasher\_1.6.2\_Setup.exe -Algorithm SHA1

Bevind je je niet in de folder waar het setup bestand zich bevindt dan zal je commando er bijvoorbeeld zo uit kunnen zien:

Get-FileHash -Path C:\Users\Administrator\Downloads\Winhasher\_1.6.2\_Setup.exe -Algorithm SHA1



1. Sluit de Powershell af door het commando Exit in te tikken
2. Open de CMD en navigeer naar de folder waar het setup bestand van Winhasher in staat
3. Tik het volgende commando in

certutil -hashfile <pad naar het bestand> SHA1

Text

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**Deel 3: Checksum in macOS en Linux**

(Voor Linux ga naar stap 14)

1. Download checksum uit de App store en installeer checksum

A picture containing graphical user interface

Description automatically generated

1. Download de App handbrake <https://handbrake.fr/rotation.php?file=HandBrake-1.3.3.dmg>

Graphical user interface, text, application, email

Description automatically generated

1. Start de app checksum op

Graphical user interface, application

Description automatically generated

1. Selecteer de tab SHA 1
2. Sleep het bestand Handbrake-1.3.dmg naar checksum

Graphical user interface, application

Description automatically generated

Graphical user interface, application

Description automatically generated

1. Kopieer nu van de website de SHA 1 checksum en plak dit in de app checksum

Graphical user interface, text, application, email

Description automatically generated

**Graphical user interface, text, application

Description automatically generated**

1. Doe nu hetzelfde voor de SHA 256 string

Graphical user interface, text, application

Description automatically generated

1. Sluit de app checksum af
2. Start nu de Terminal op
3. Tik nu het commando shasum –a 1 in. Nu kan je het volledige pad intikken waar de dmg van Handbrake staat. Eenvoudiger is om een Findervenster te openen waar de dmg van Handbrake zich bevindt en de dmg naar de Terminal te slepen. Het padnaam wordt automatisch voor je ingevuld.

A screenshot of a cell phone

Description automatically generated

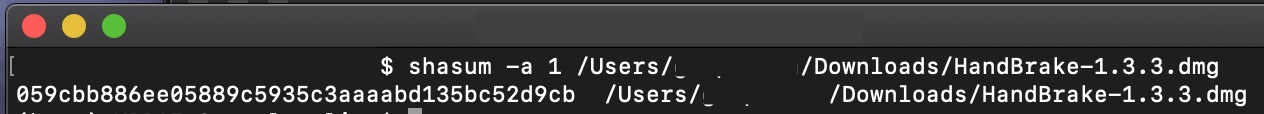
1. Welke resultaat verwacht je?

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1. Nu ga je de SHA256 hash controleren. Welk commando moet je gebruiken om de SHA256 hash te verifiëren?

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1. Probeer het commando. Is de uitkomst wat je had verwacht?

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1. Voor deze oefening controleer je de MD5 en SHA1 hash van een Ubuntu minimal ISO. In dit voorbeeld wordt Ubuntu 14.04 LT “Trusty Tahr” gedownload. <https://help.ubuntu.com/community/Installation/MinimalCD>

A picture containing text

Description automatically generated

1. Start de terminal van Linux op.
2. Gebruik je een Desktop editie van Linux dan kan je de link kopiëren en plakken in de Terminal. Gebruik je een Servereditie dan zal je de link handmatig moeten intikken

wget http://archive.ubuntu.com/ubuntu/dists/trusty/main/installer-i386/current/images/netboot/mini.iso

![Text

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDoRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAUAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGdsb3B1bGlzYQAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNTgAAJKSAAIAAAADNTgAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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1. Tik het commando ls in om te verifiëren dat het bestand is gedownload

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1. Tik het volgende commando in:

sha1sum mini.iso



1. Vergelijk de uitkomst met de checksum op de website

A picture containing text

Description automatically generated

1. Tik nu het volgende commando in:

md5sum mini.iso

1. Vergelijk de uitkomst met de checksum op de website



**Deel 4: De ISO aanpassen en opnieuw verifiëren van de checksum**

**Werk voor deze opdracht in tweetallen waarvan een van jullie een Windows laptop heeft. De bedoeling is dat de ISO gedeeld m.b.v. bijvoorbeeld Google Drive.**

1. Maak een tekstbestand aan en sla dit op.
2. Download de Ubuntu minimal ISO (Ubuntu 14.04 LTS “Trusty Tahir”) <https://help.ubuntu.com/community/Installation/MinimalCD>

A picture containing text

Description automatically generated

1. Download AnyBurn voor Windows 10 <http://www.anyburn.com/anyburn_setup_x64.exe>
2. Installeer en start AnyBurn
3. Klik op de button Edit Image File

Graphical user interface, text, application

Description automatically generated

1. Kies in het volgende venster voor de mini.iso en klik op next

Graphical user interface, text, application, email

Description automatically generated

1. Klik in het volgende venster op de button Add en voeg het eerder gemaakte tekstbestand toe en klik op next

Graphical user interface, text

Description automatically generated

1. In het volgende venster klik je op de button Create Now. De iso wordt opnieuw gemaakt. Er verschijnt een melding dat het bestand reeds bestaat. Bevestig met Yes

Graphical user interface, text, application, email

Description automatically generated Graphical user interface, application

Description automatically generated

1. De mini.iso is gemaakt, maar nu met een extra bestand!
2. Wissel het bestand uit met je groepgenoot
3. Controleer nu de checksum voor MD5 en SHA1 met een van de eerdere methoden
4. Wat verwacht je?

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1. Waar is m.b.t. deze ISO een aanval op uitgevoerd als je kijkt naar BIV en waarom is dat?

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1. Stel dat een hacker kwaadaardige code in de iso heeft verstopt, waar zou je naast de checksum ook allemaal op kunnen letten?

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**Lab 1.3 – Beschikbaarheid**

**Doelen:**

**Deel 1: Berekening beschikbaarheid**

**Deel 2: Berekening beschikbaarheid met redundantie**

**Achtergrond/Scenario**

Een IT-infrastructuur is (ooit) gebouwd op basis van opgestelde requirements. Deze requiremens zijn meestal opgesteld door één of meerdere stakeholders. Stakeholders willen dat de IT-infrastructuur een bepaalde mate van beschikbaarheid moeten hebben. Data-exchange van, naar en binnen de IT-infrastructuur moet een bepaalde mate van integriteit en vertrouwelijkheid hebben.

Een hostingbedrijf wil een zo hoog mogelijke beschikbaarheid hebben in een datacenter. Een zeer ambitieus streven is een beschikbaarheid van 99,999%. Dit houdt in dat de uitval of downtime ongeveer 5 minuten op jaarbasis is. Om de beschikbaarheid zo hoog mogelijk te maken worden veel servers redundant uitgevoerd met allerlei fail-over technieken.

**Vereiste bronnen**

Excel

**Deel 1: Berekening beschikbaarheid**

Een leverancier biedt de volgende devices:

1. Firewall 99,995% €3900,- per jaar
2. Webserver WH18017 90% € 5000,- per jaar
3. Databaseserver DB18017 81% €2600,- per jaar

Om de beschikbaarheid uit te rekenen van bijvoorbeeld de firewall en webserver WH18017 vermenigvuldig je de beide beschikbaarheden:

Beschikbaarheid A x beschikbaarheid B…. x beschikbaarheid n

Voor dit voorbeeld is dat dus 0,99995 \* 0,9 = 0,899955, oftewel een beschikbaarheid van 89,9955% (zorg ervoor dat je in excel ongeveer 10 decimalen achter de komma laat staan)

24 \* 365 = 8760 uren in een jaar

1% is 87,6 uur

Een systeem met een beschikbaarheid van 89,9955% mag dus ongepland 876 uur **onbeschikbaar** zijn. Dit zijn ongeveer 36,5 dagen per jaar!..........

Reken dit voorbeeld na, maar nu voor de firewall, webserver en databaseserver

……….% beschikbaarheid, …………uren ongepland onbeschikbaar p/j, ………. volle dagen p/j

**Deel 2: Berekening beschikbaarheid met redundantie**

Bereken de beschikbaarheid in de volgende situatie (redundantie) en gebruik de gegevens uit lab 1.3.

1. 2 x Firewall
2. 2 x Webserver
3. 2 x Databaseserver

De formule die je hiervoor nodig hebt:

(1- (1-beschikbaarheid A)^aantal ) **\*** (1- (1-beschikbaarheid B)^aantal ) **\***   
(1- (1-beschikbaarheid C)^aantal )

……….% beschikbaarheid, …………uren ongepland onbeschikbaar p/j, ………. volle dagen p/j

Welke conclusie moet je trekken als je een beschikbaarheid van 99,99(9) % zou willen halen?

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