#6 X.509 Certificates

SEGURANÇA NAS ORGANIZAÇÕES E INFORMÁTICA

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Asymmetric Cryptography

Recap

Private Key

- Sign data
- Decipher ciphered data

Public Key

- Verify signed data
- Cipher data

Asymmetric Cryptography

Recap

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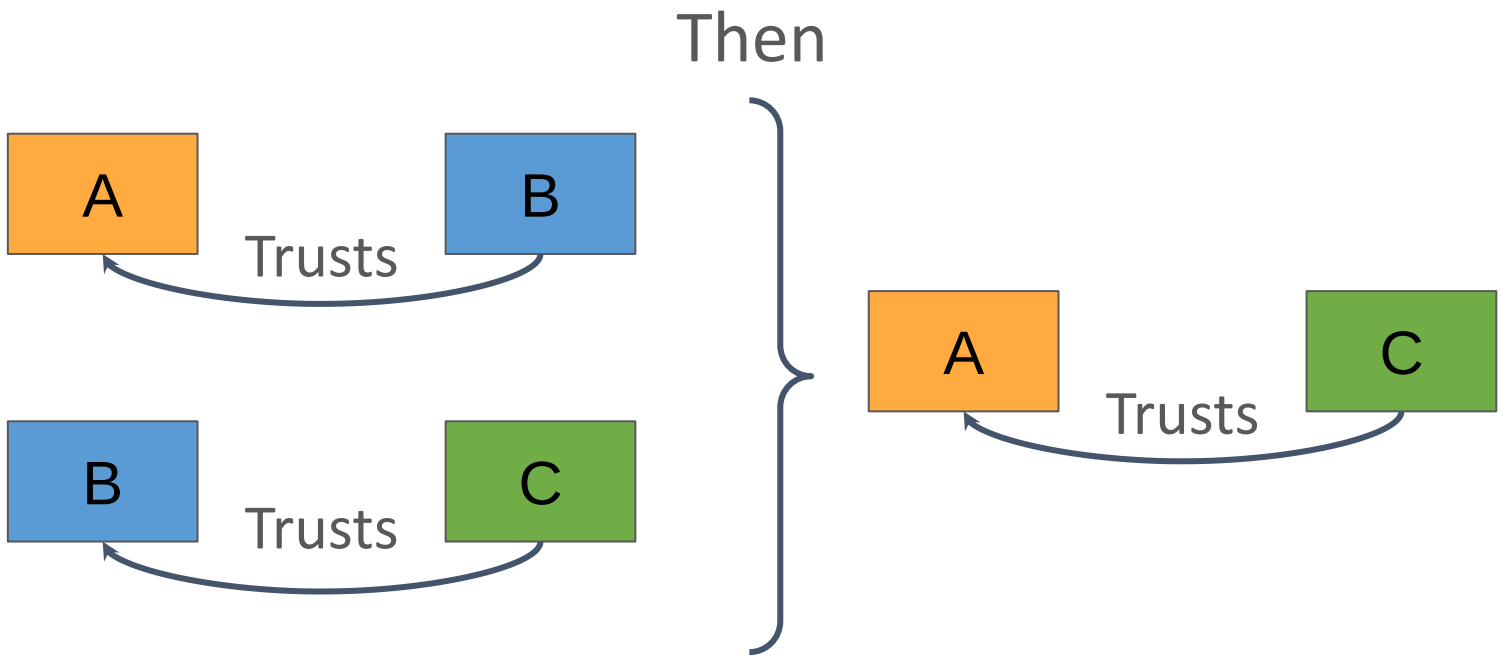
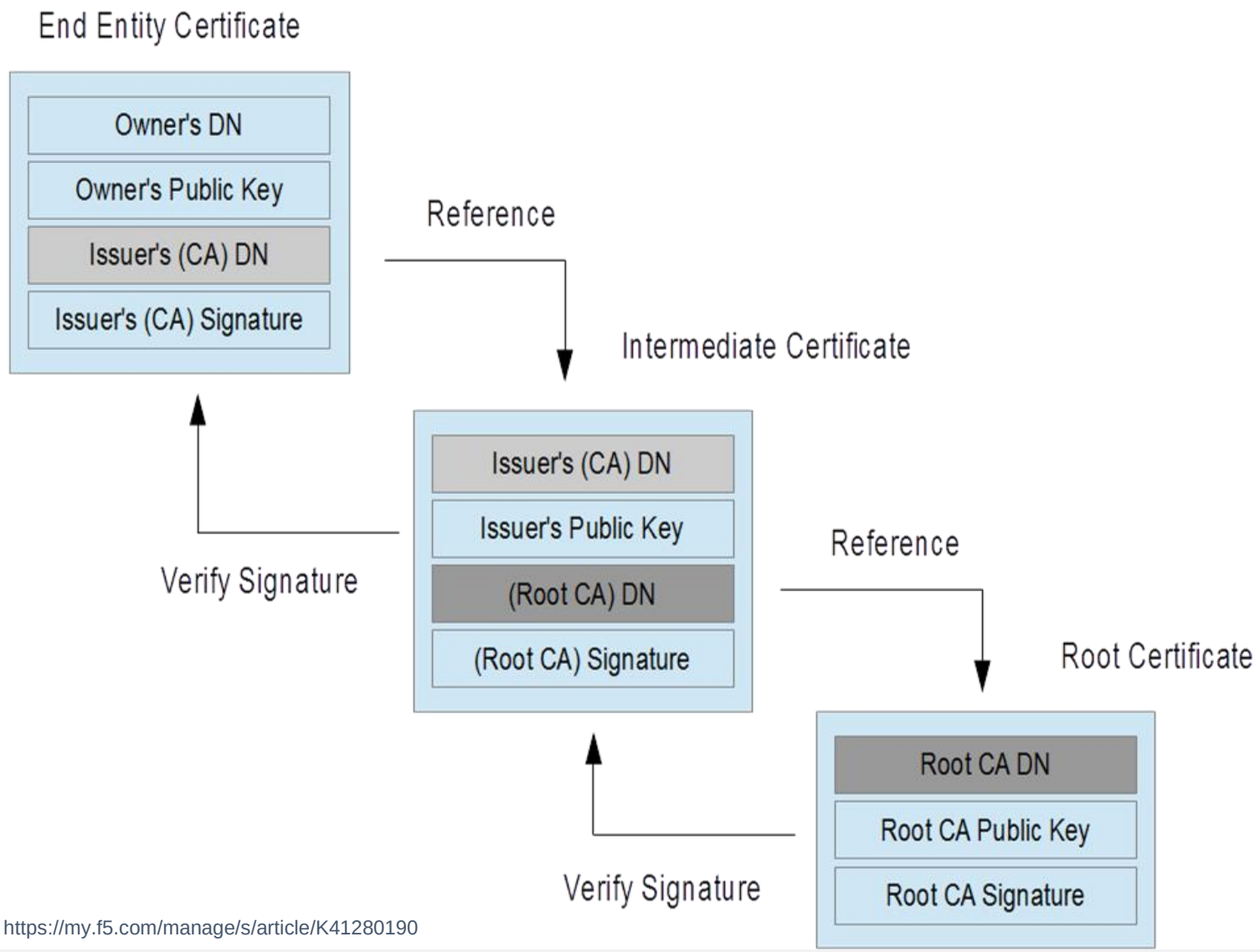
However, how can I trust a Public Key?

Trust



In certificates, trust is transitive

Chain of Trust



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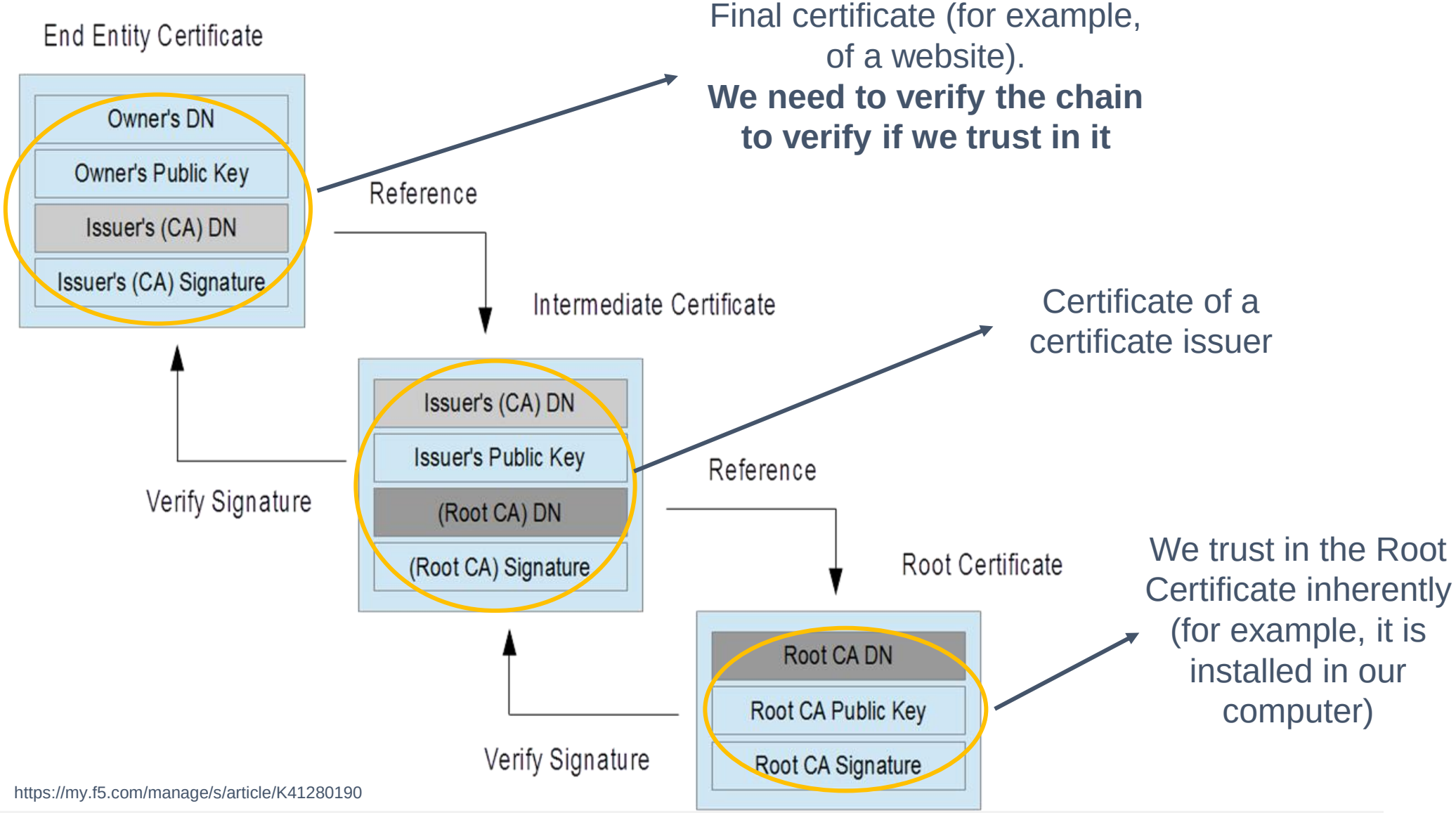
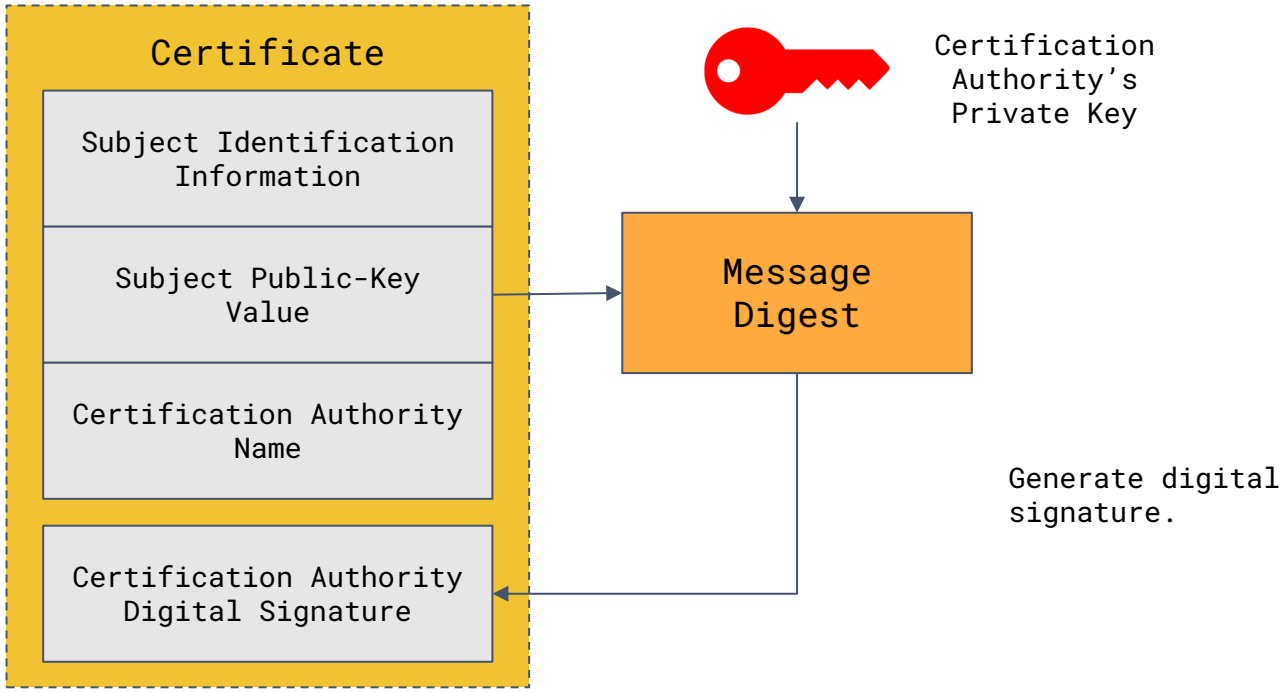
Chain of Trust



https://my.f5.com/manage/s/article/K41280190

Trusting a public key



A certificate is just a format, to convey the trust of an authority on a specific key.