Kerberos

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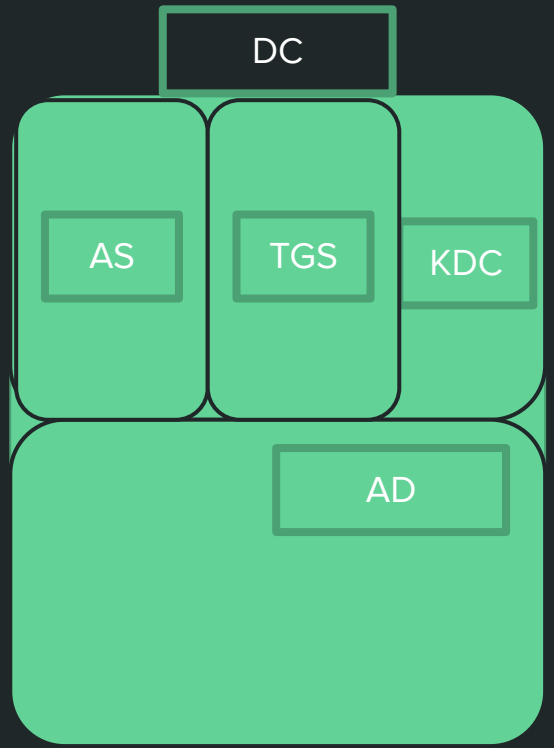
What is it like?

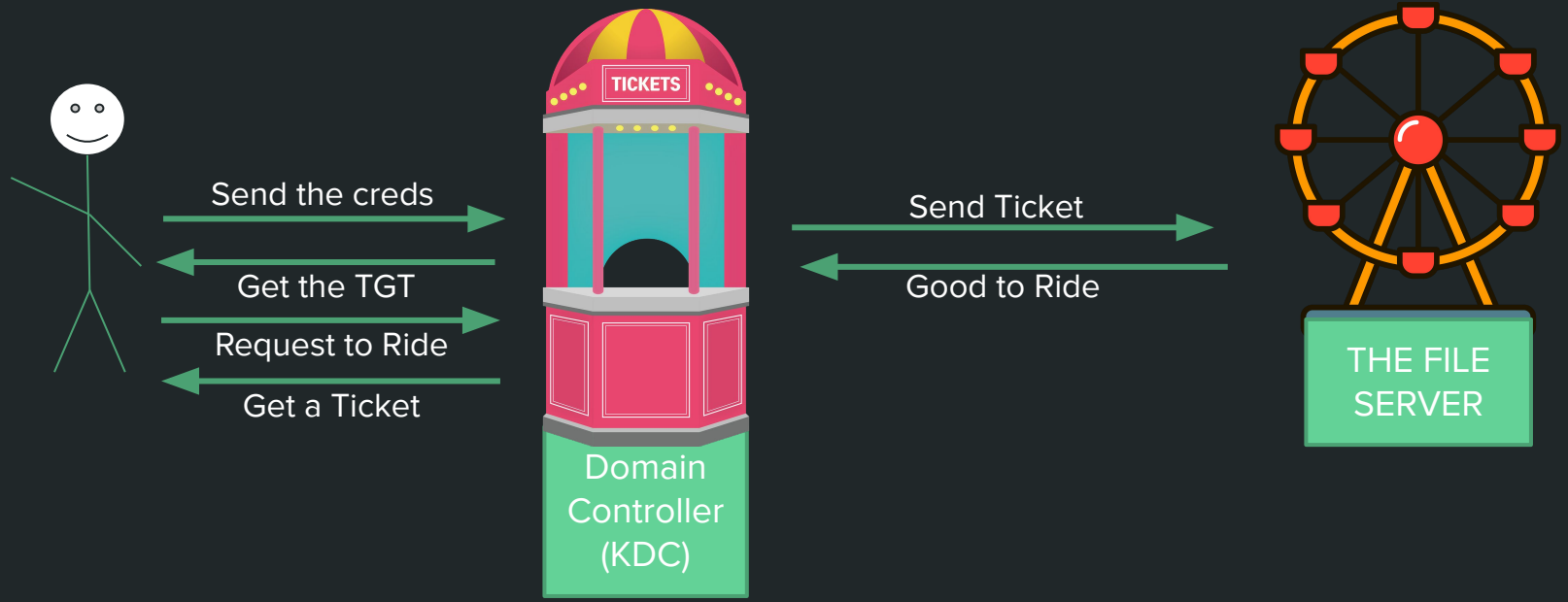
AN AMUSEMENT PARK

Vocab Quiz

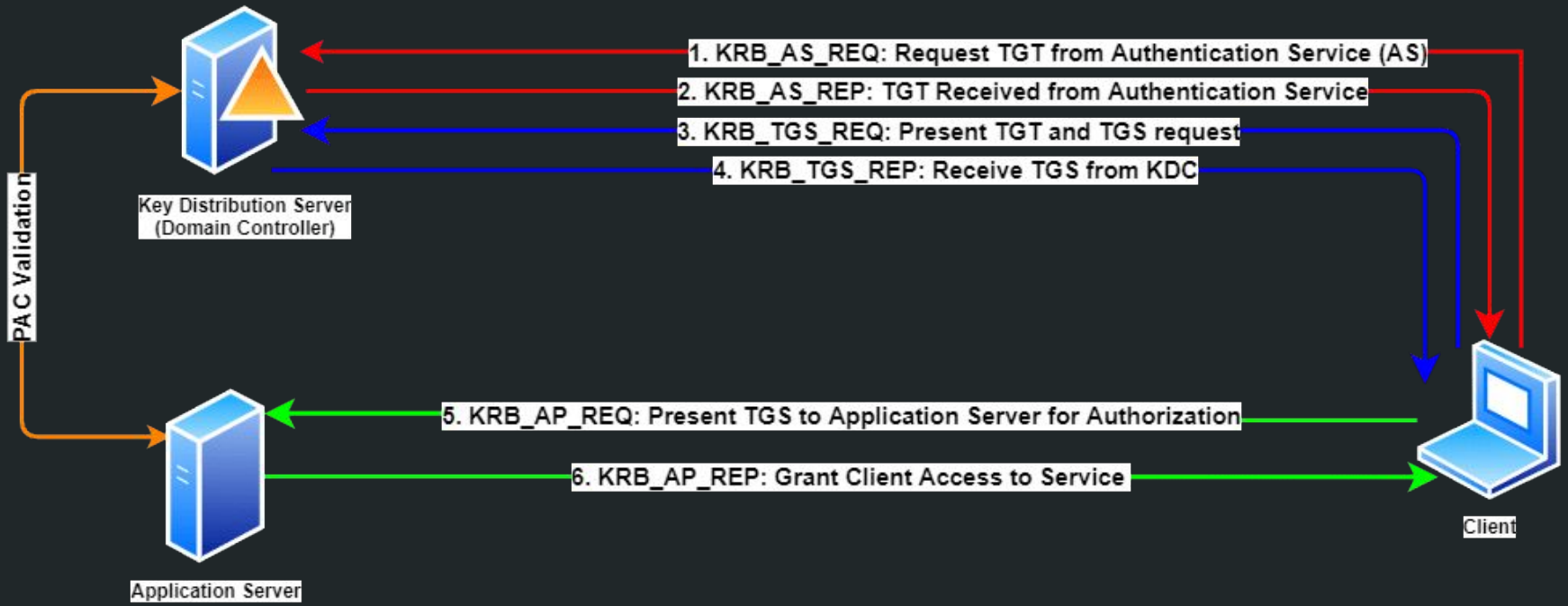
- Domain Controller
  - Main server that generally hosts Active Directory and KDC
- KDC (Key Distribution Service)
  - Two parts, AS and TGS
- AS (Authentication Server)
  - Handles translating credentials into TGTs
- TGS (Ticket-Granting Server)
  - Handles translating TGTs to Tickets
- TGT (Ticket Granting Ticket)
  - Main form of authentication inside of domain
- Ticket/TGS Ticket (Valid Session for Service)
  - Gives access to a service



Ya Right


Send the creds
Get the TGT
Request to Ride
Get a Ticket
TICKETS
Domain Controller (KDC)
Send Ticket
Good to Ride
THE FILE SERVER

The Real Situation



Attacking Words

- Golden Ticket
  - A Forged TGT
  - Need password hash of KRBTGT account
    - Hidden Kerberos account for signing tickets
  - Allows you to create any tickets we want
- Silver Ticket
  - A Forged TGS Ticket
  - Need password has of service account
  - Allows you to create a valid session to that specific service

Common Attacks

- Kerberoasting
  - Ask to ride all the ride!
  - Get all the Ticket!
  - ~Mimicatz~