



Broadcast Encryption

18.03.2013

PSE 2012/13

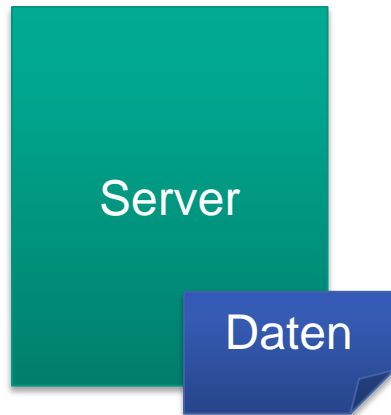


Broadcast-Verschlüsselung



Server

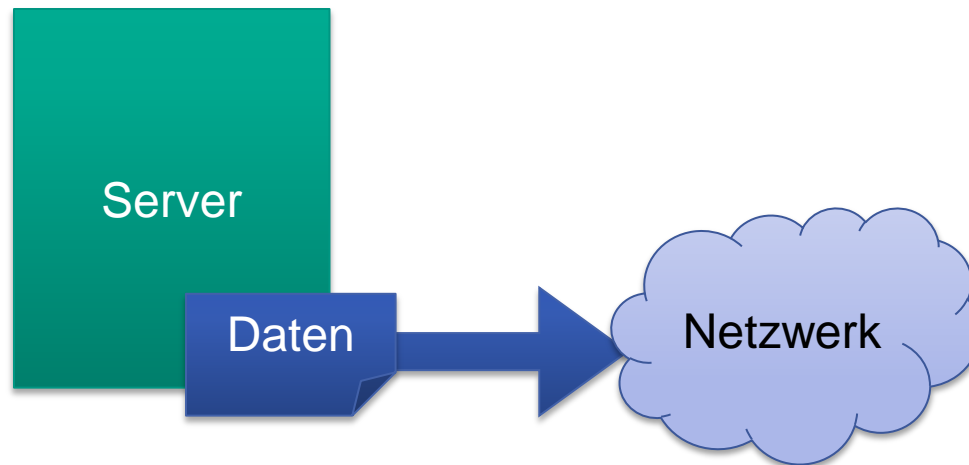
Broadcast-Verschlüsselung



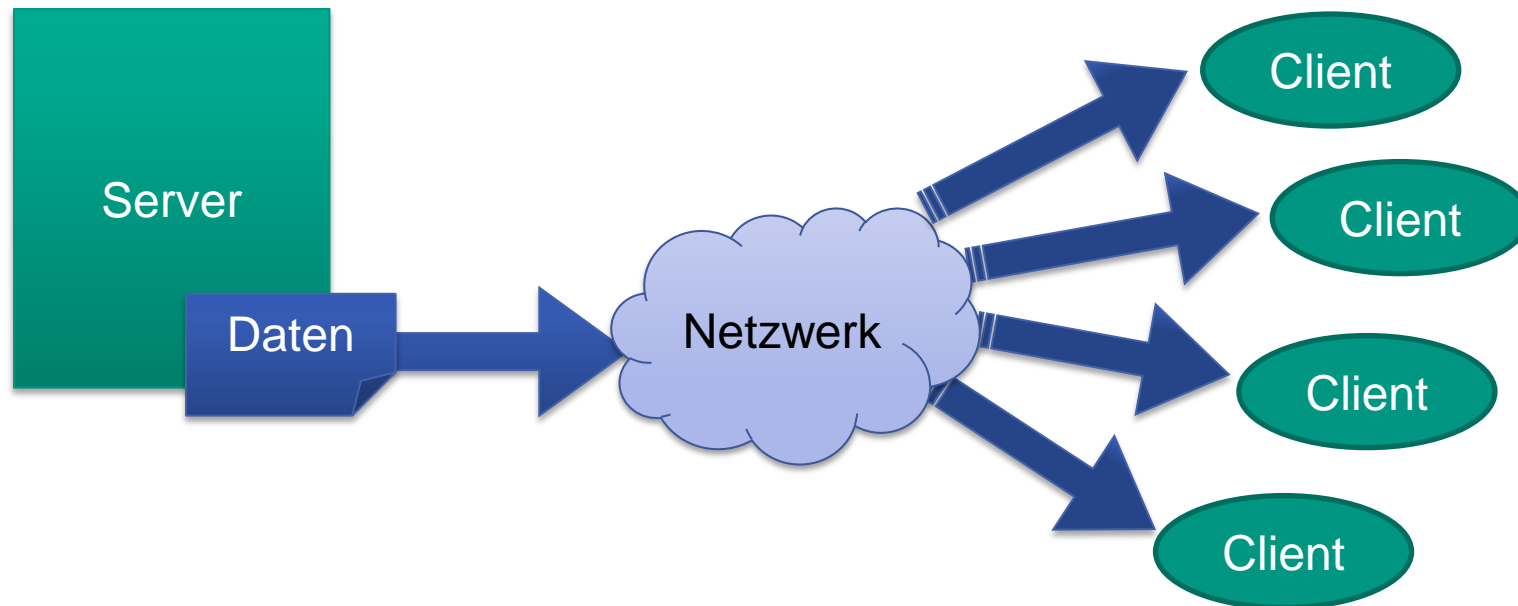
Server

Daten

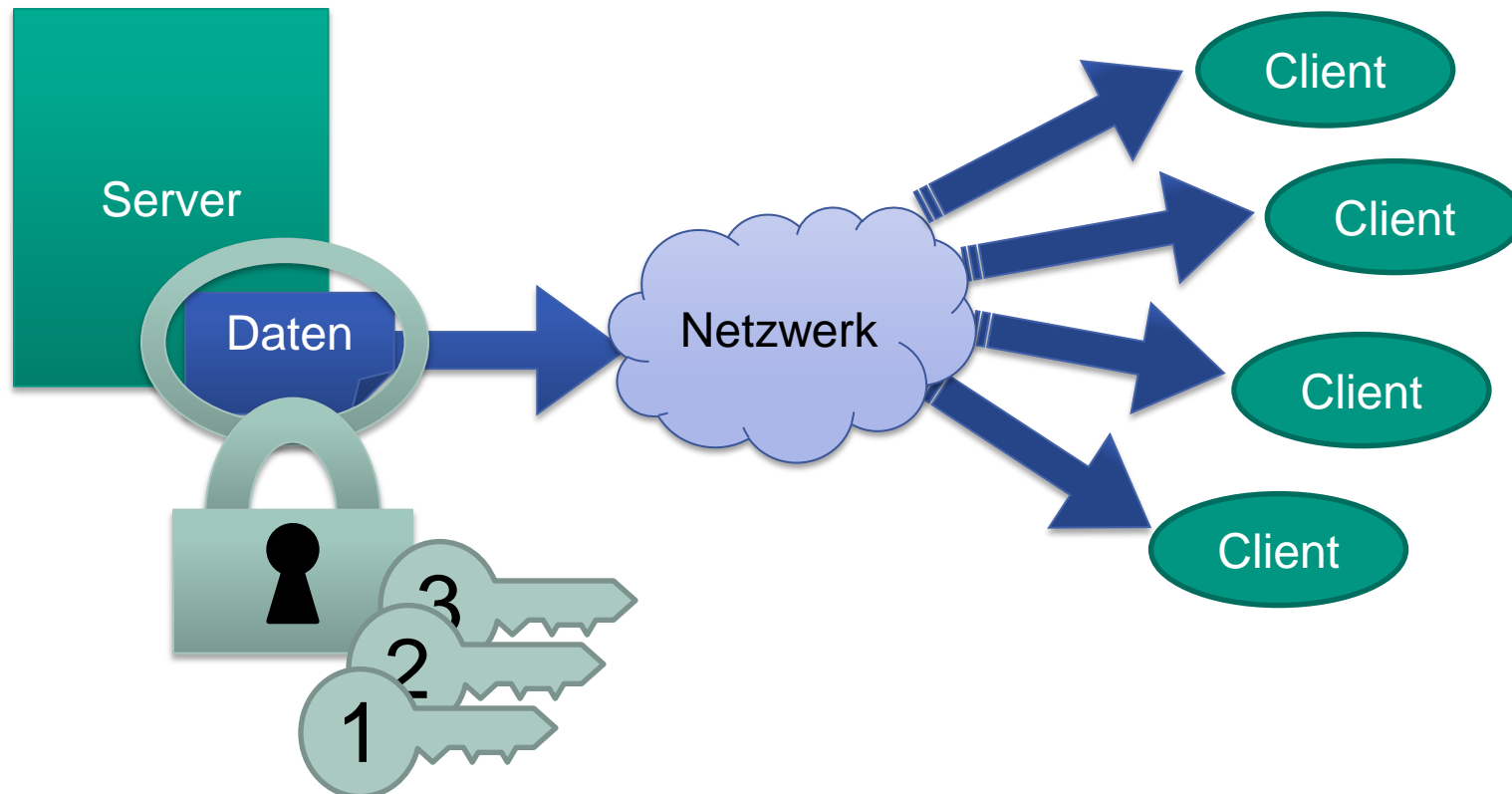
Broadcast-Verschlüsselung



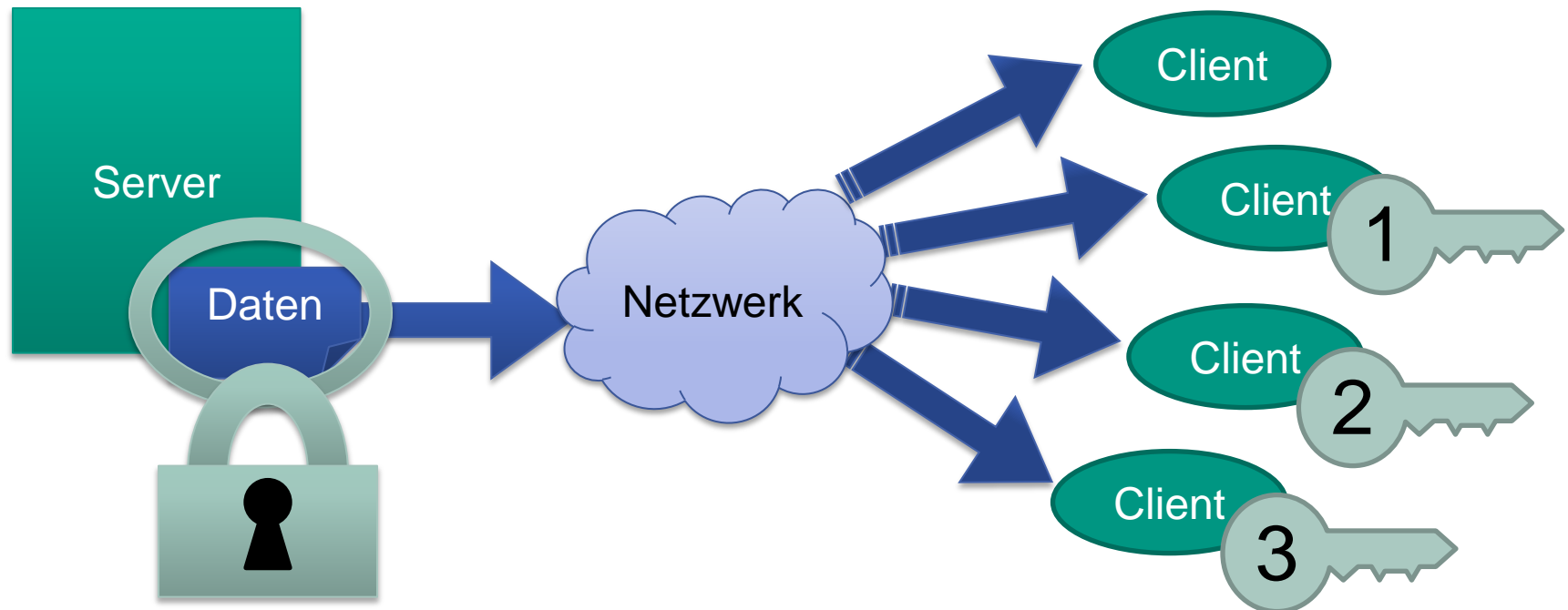
Broadcast-Verschlüsselung



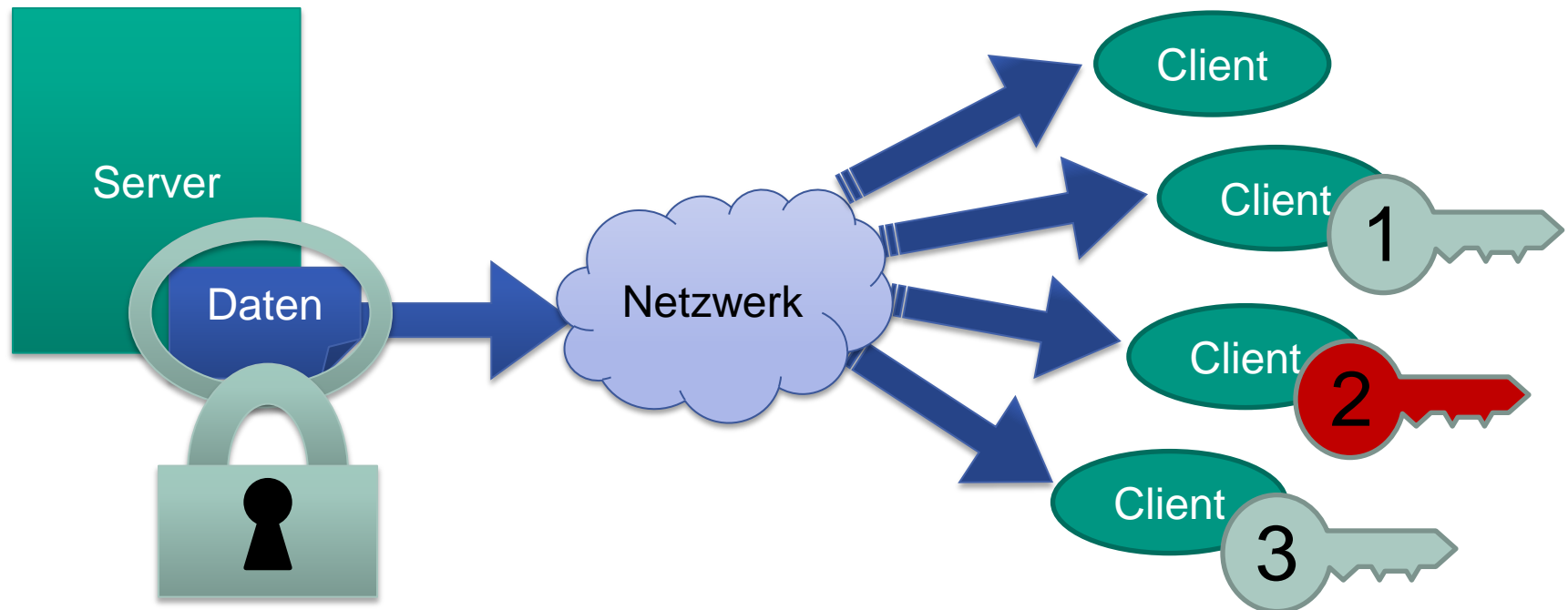
Broadcast-Verschlüsselung



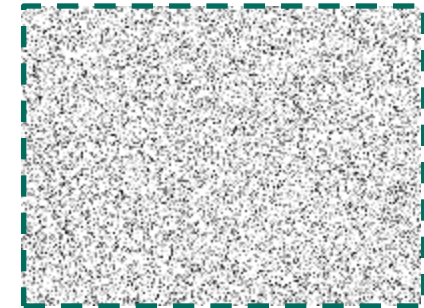
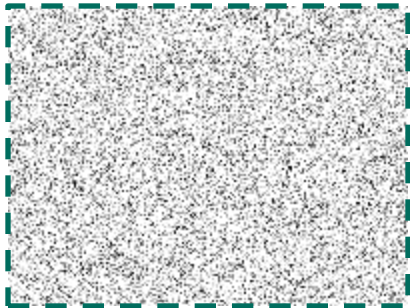
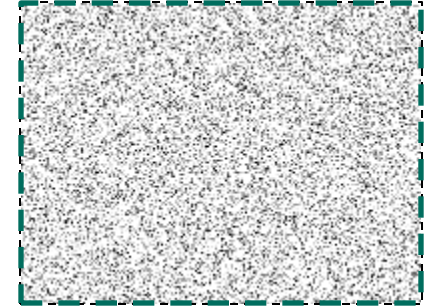
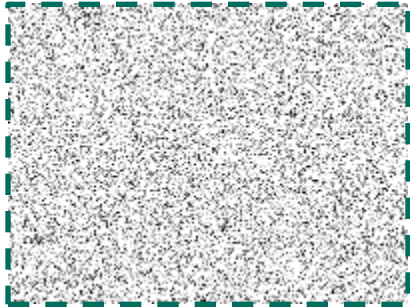
Broadcast-Verschlüsselung



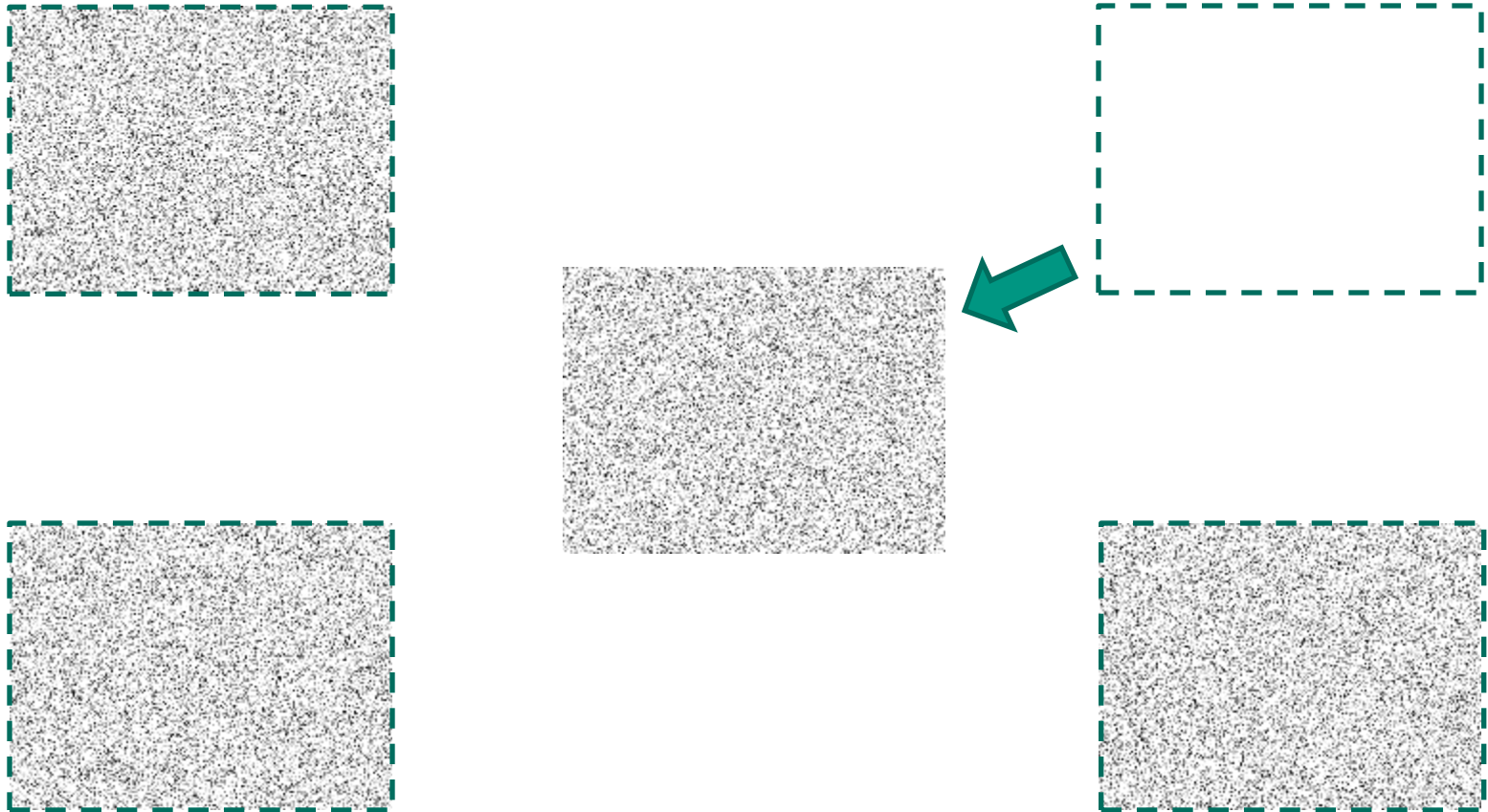
Broadcast-Verschlüsselung



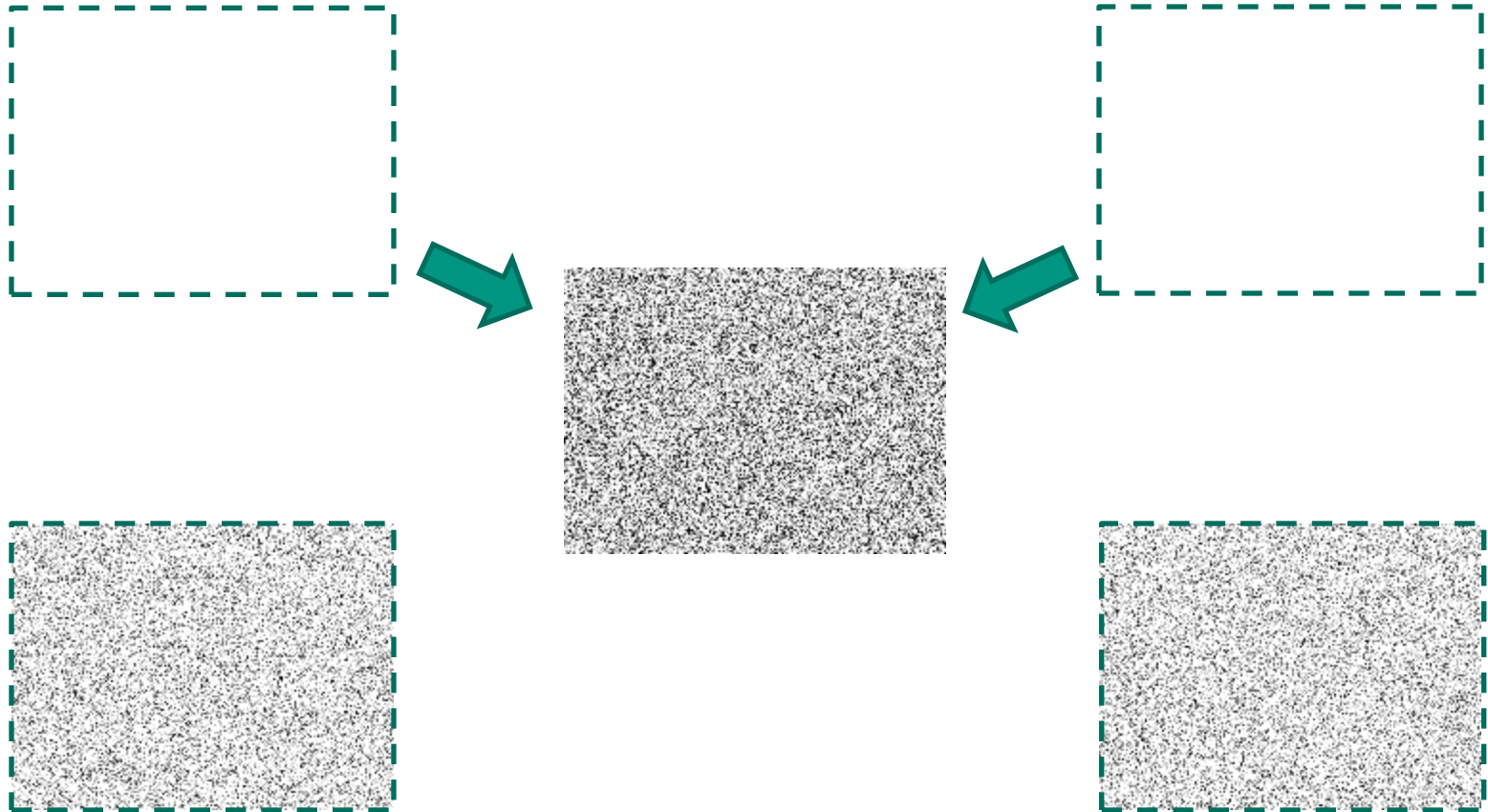
Shamirs-Secret-Sharing



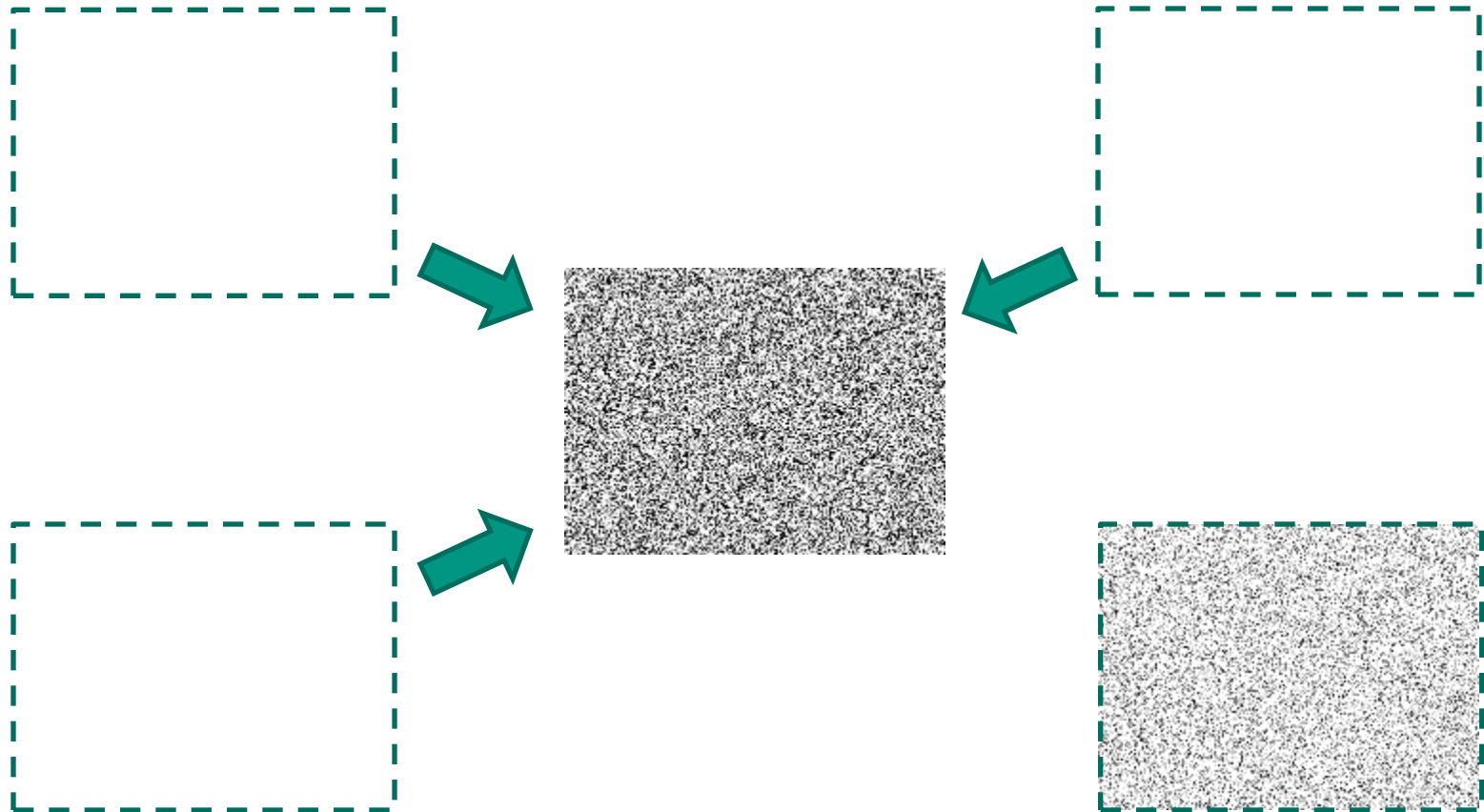
Shamirs-Secret-Sharing



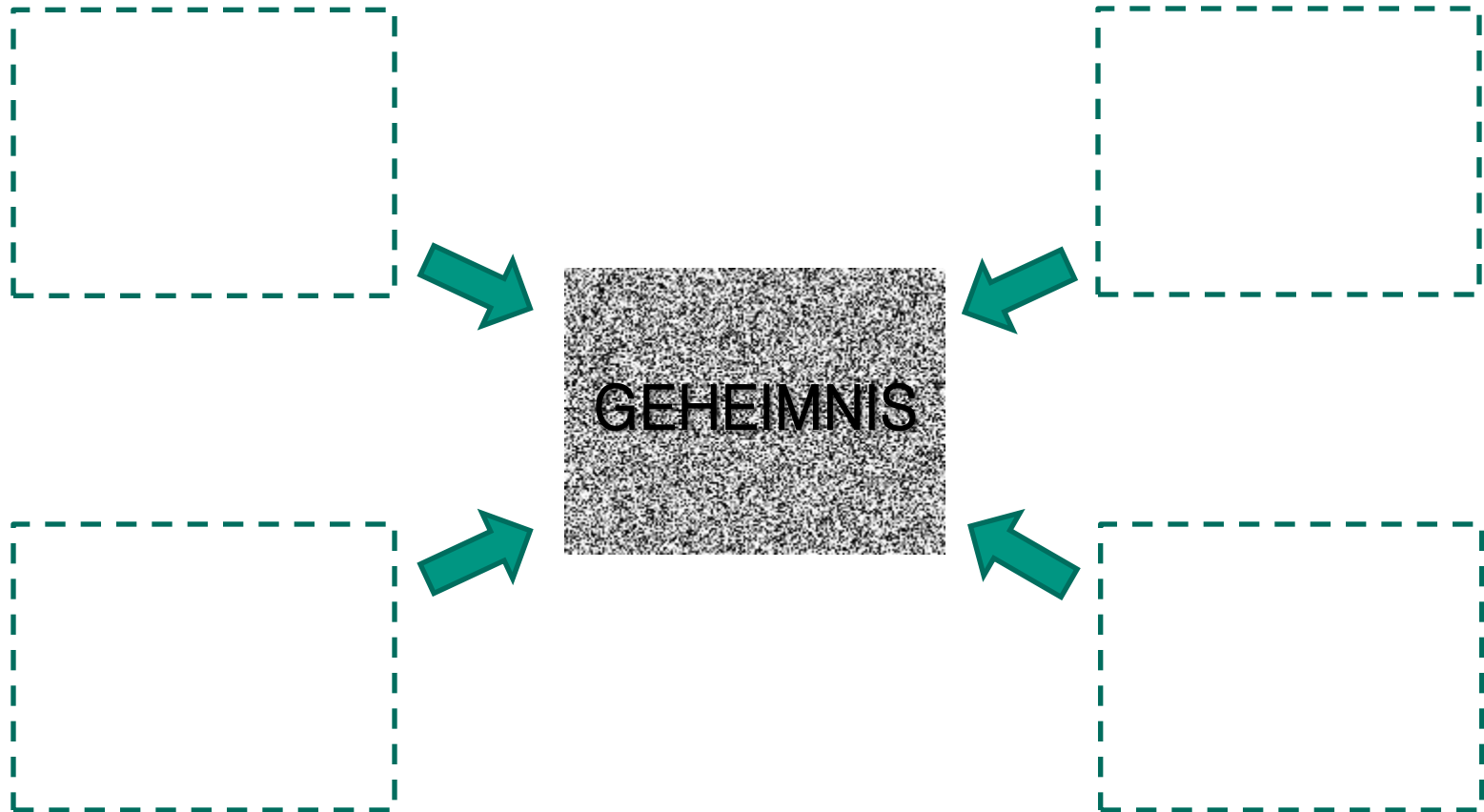
Shamirs-Secret-Sharing



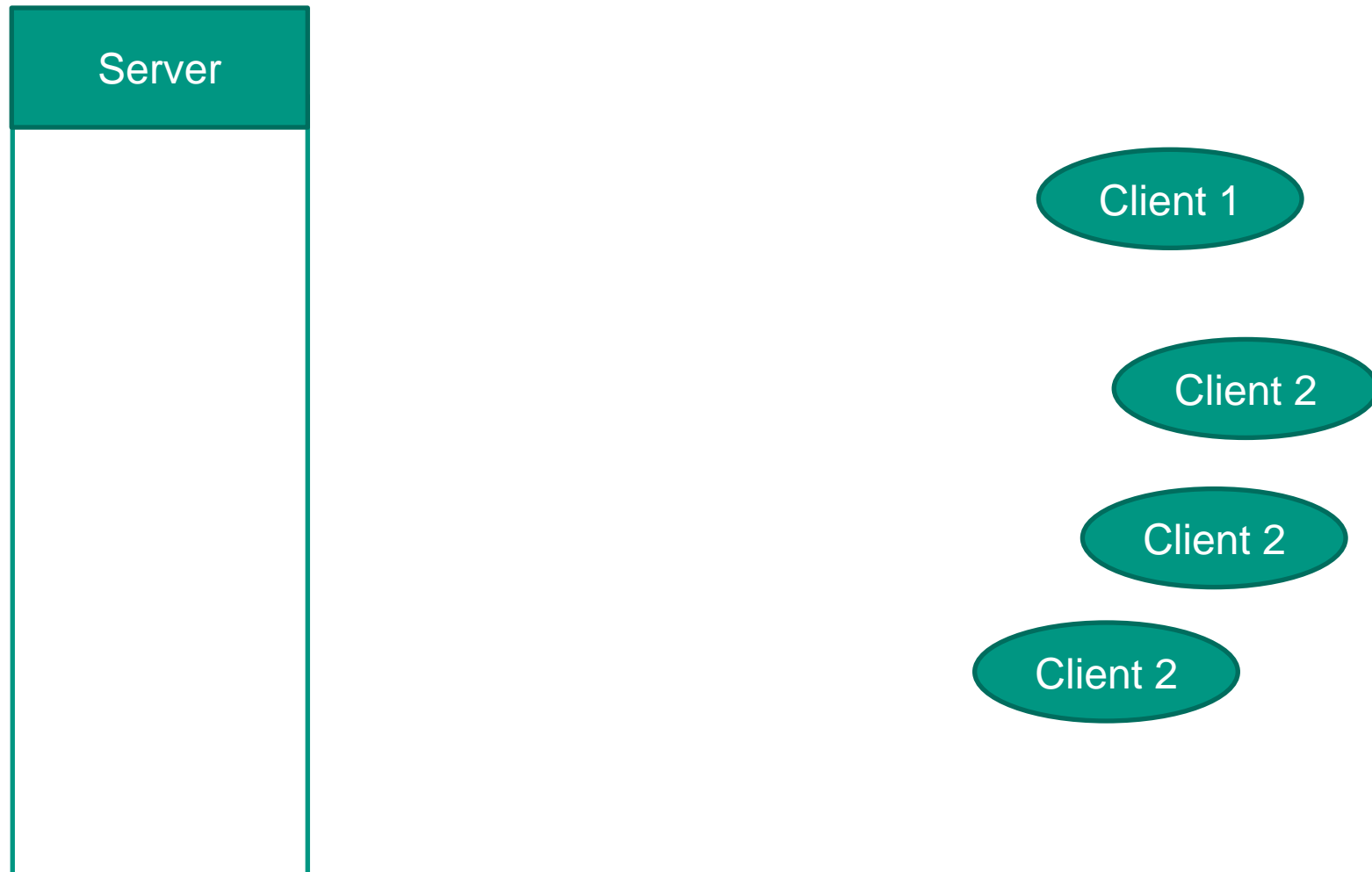
Shamirs-Secret-Sharing



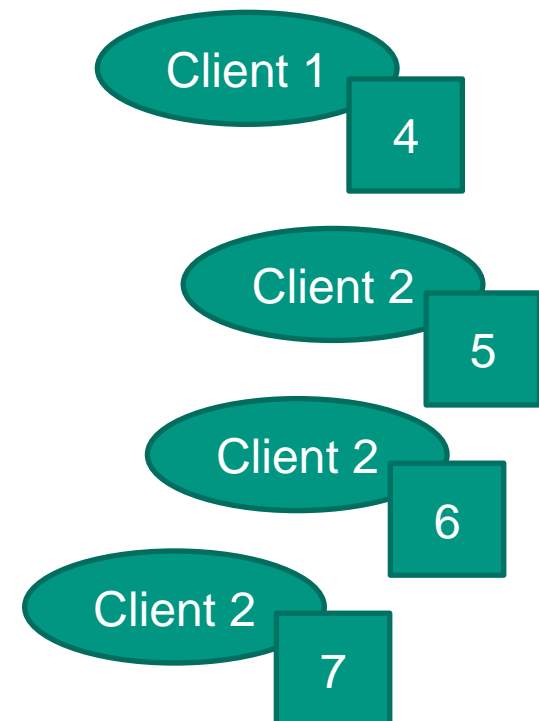
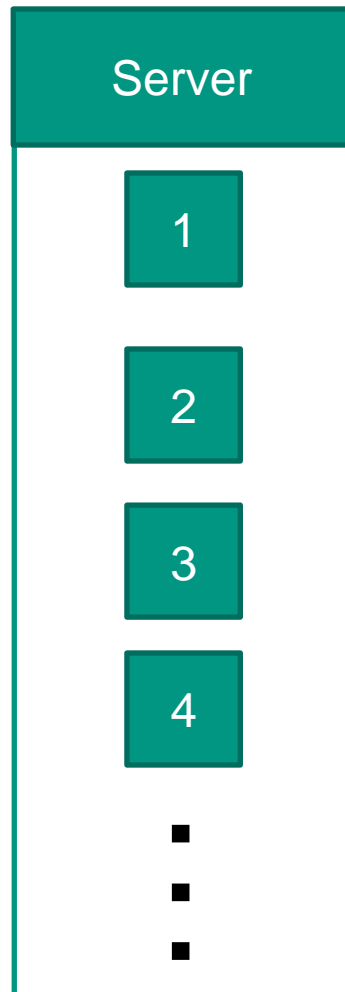
Shamirs-Secret-Sharing



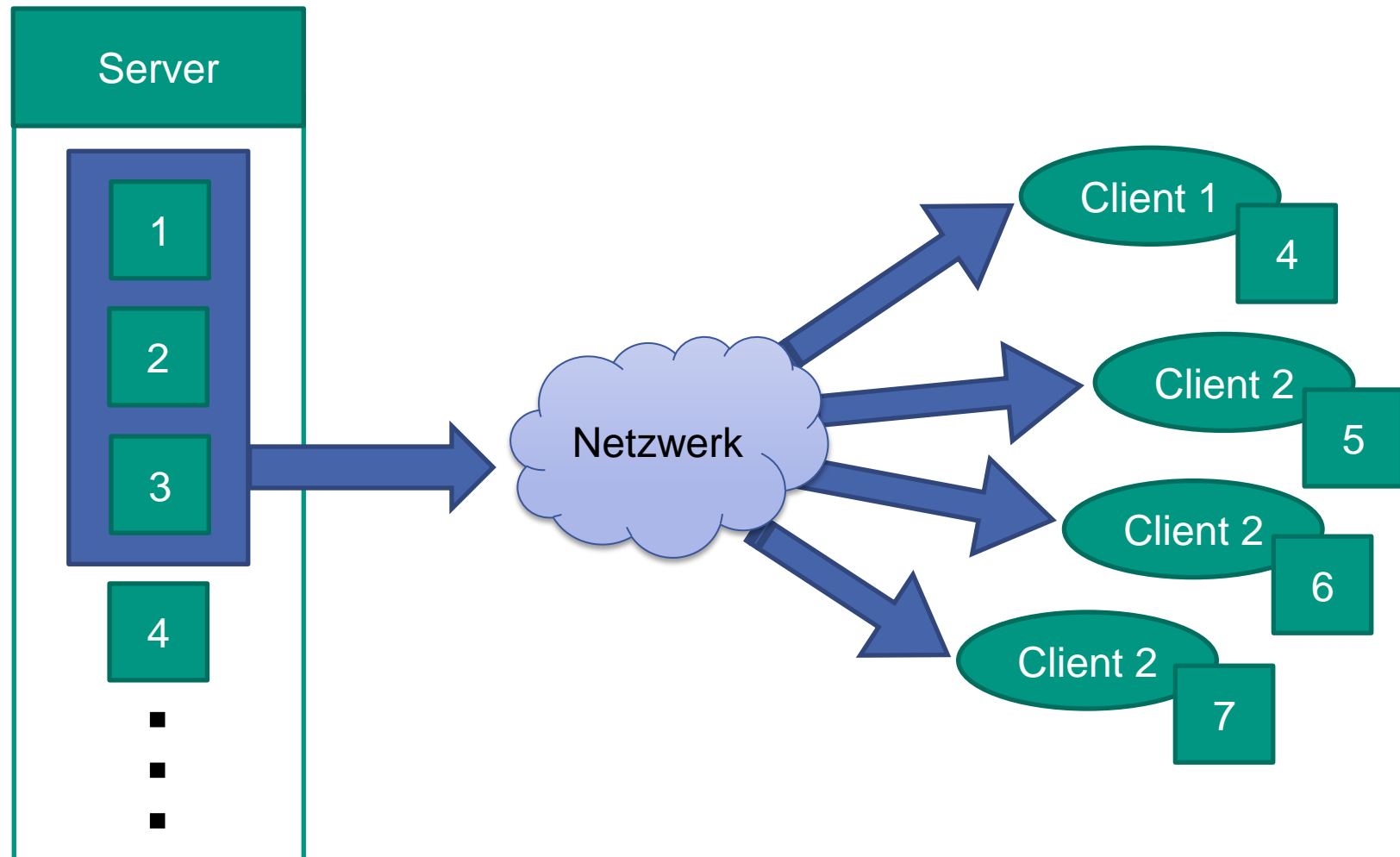
Naor-Pinkas-Revoke-Scheme



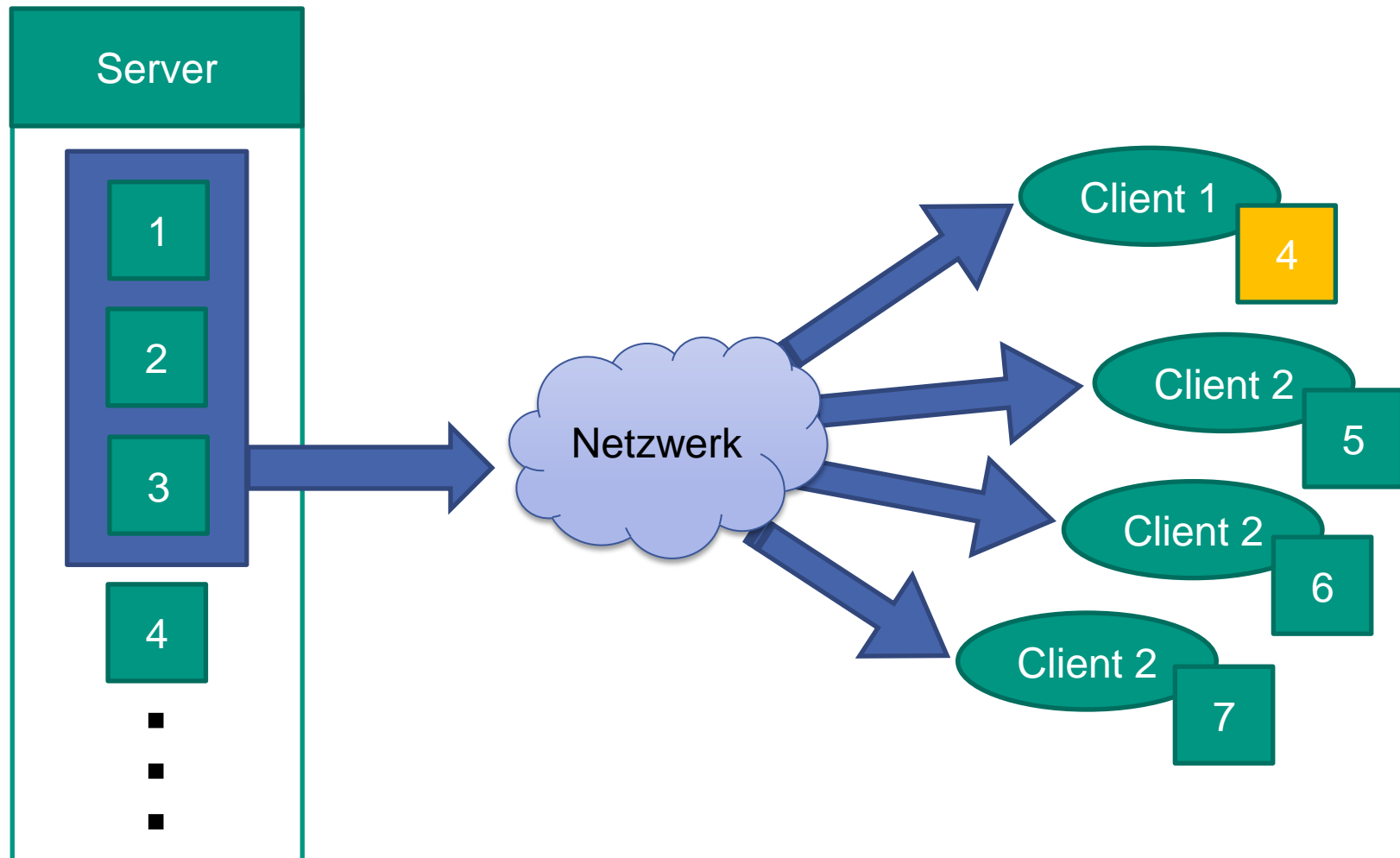
Naor-Pinkas-Revoke-Scheme



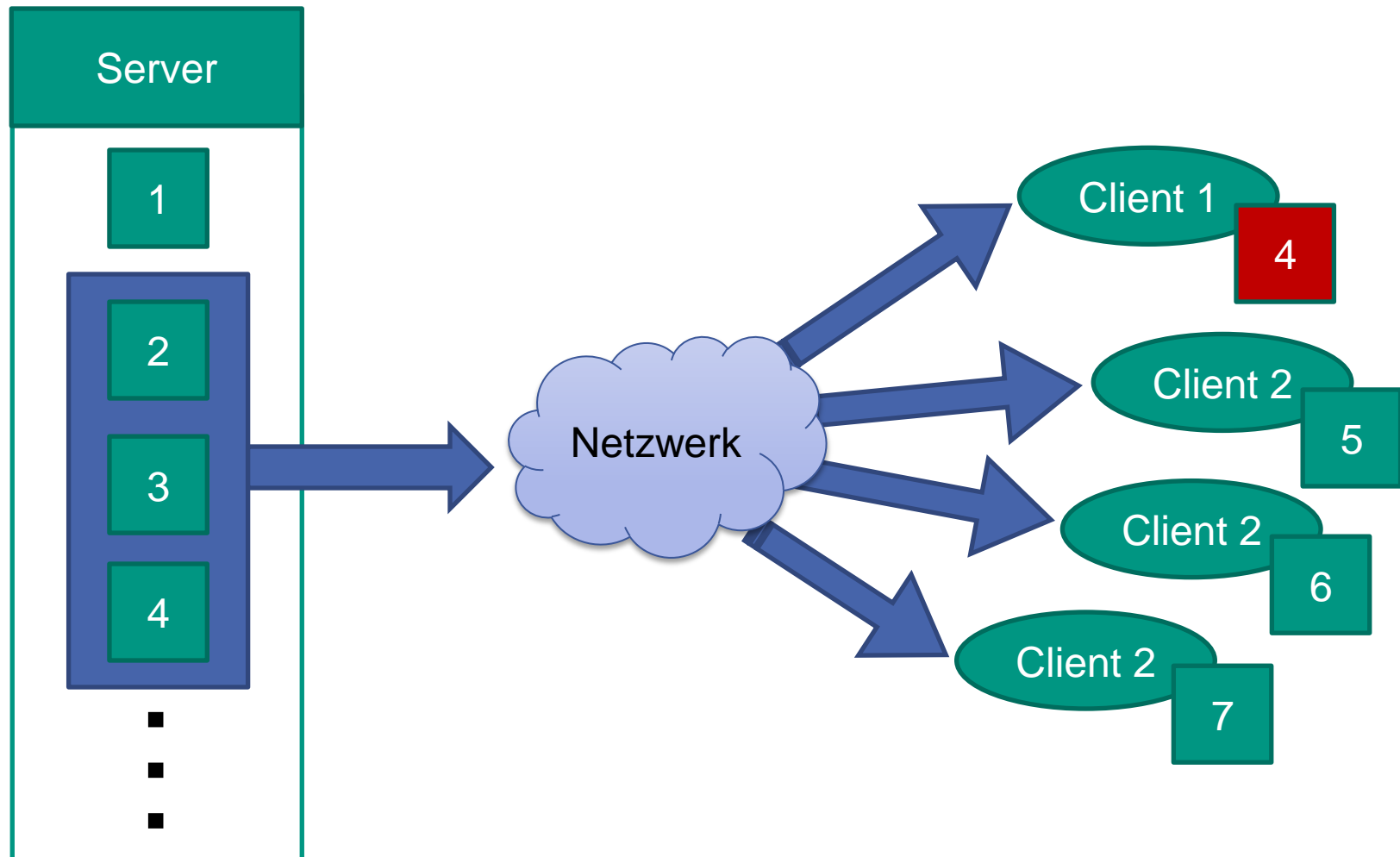
Naor-Pinkas-Revoke-Scheme



Naor-Pinkas-Revoke-Scheme



Naor-Pinkas-Revoke-Scheme



Unser Projekt

- Broadcast-Verschlüsselung in der Praxis ausprobieren!
- Entwickeln eines Produkts
 - Anbieter will Inhalte durch Server verbreiten
 - Rechenstarke Smartphones verbreitet: Android!
 - Soll für Benutzer möglichst einfach sein
- Entstanden ist: **CryptoCast**
 - Client-Server-Kombination für Broadcast mit Verschlüsselung

Technisches

■ Server

- Java und C++
- Konsolenanwendung
 - Benutzerverwaltung
 - Verschlüsselung
 - Senden beliebiger Datenströme

■ Client

- Android ab 2.3
- Empfangen
- Entschlüsseln
- Wiedergeben der Inhalte (bei uns: MP3)



