

SIRS project – Insurance & Banking: BlingBank

Group 49

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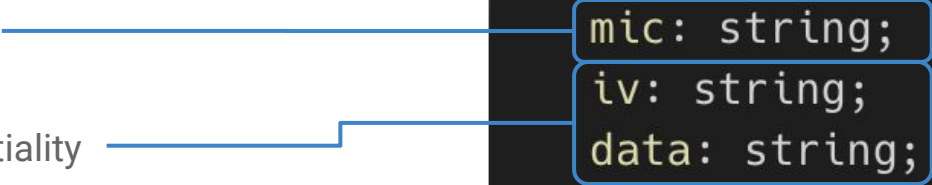
Renato Custódio 110948

Secure Document

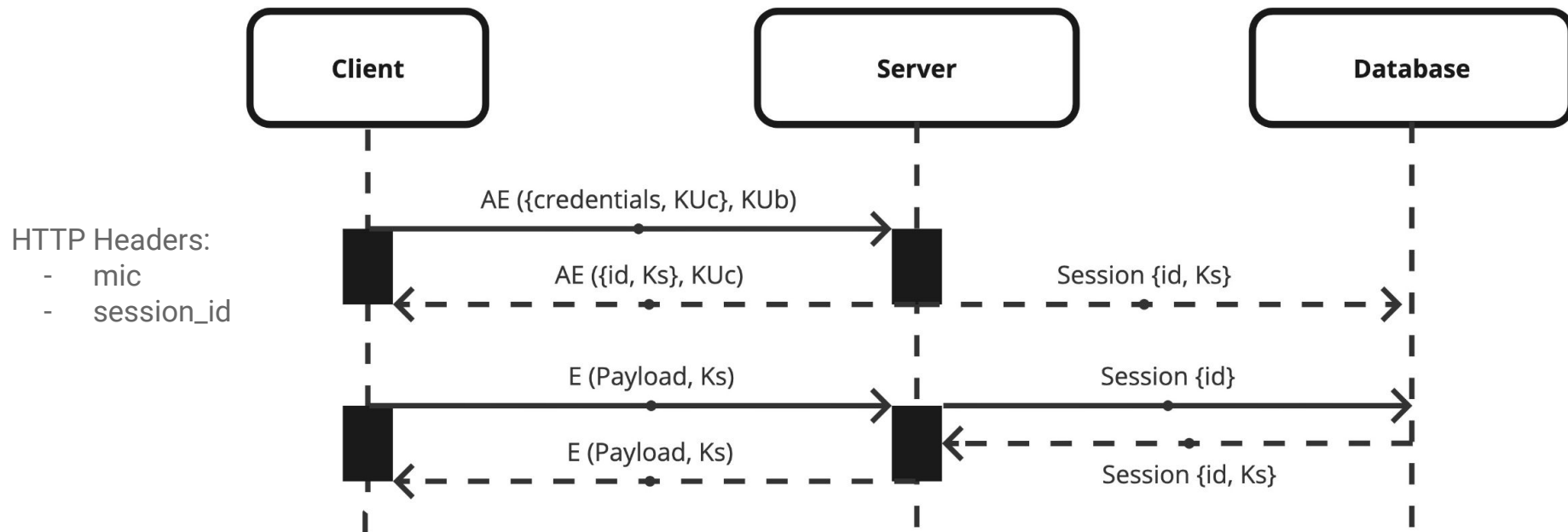
Integrity

Confidentiality

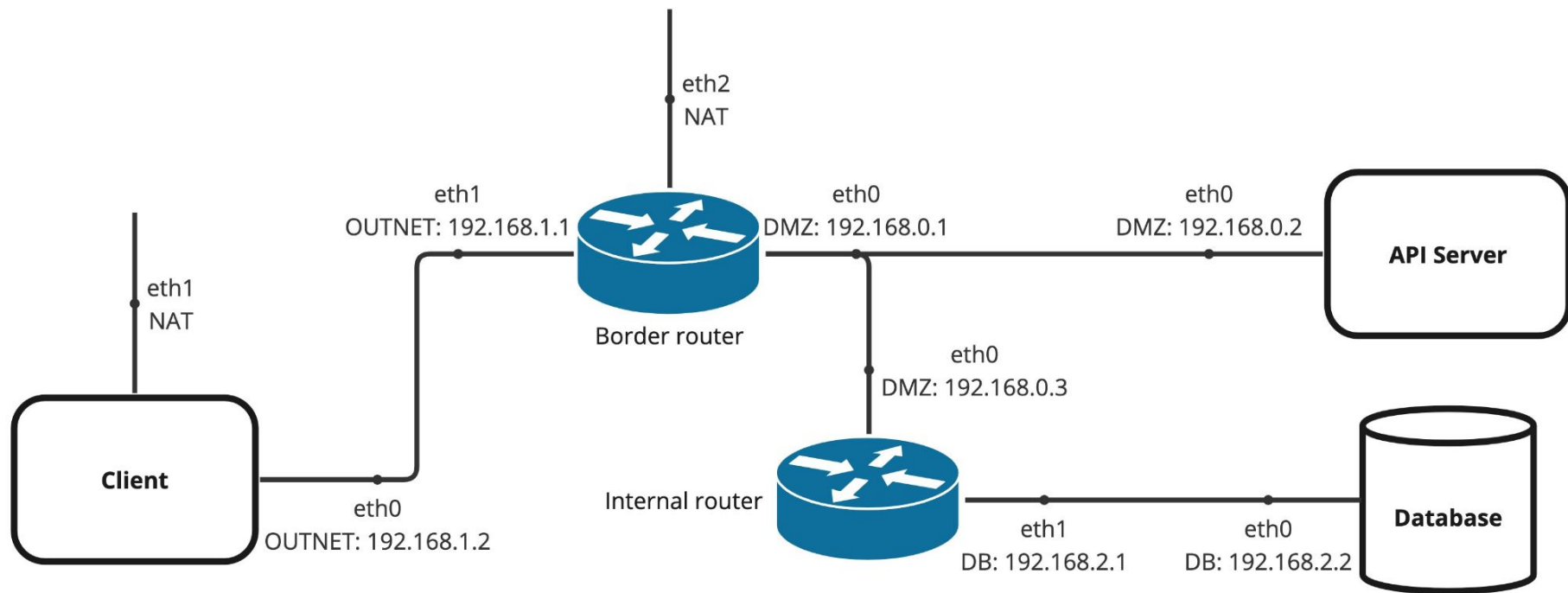
```
export interface ProtectedDocument {  
  mic: string;  
  iv: string;  
  data: string;  
}
```



Secure channel establishment



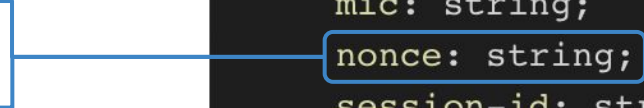
Infrastructure



Security Challenge

HTTP packet format

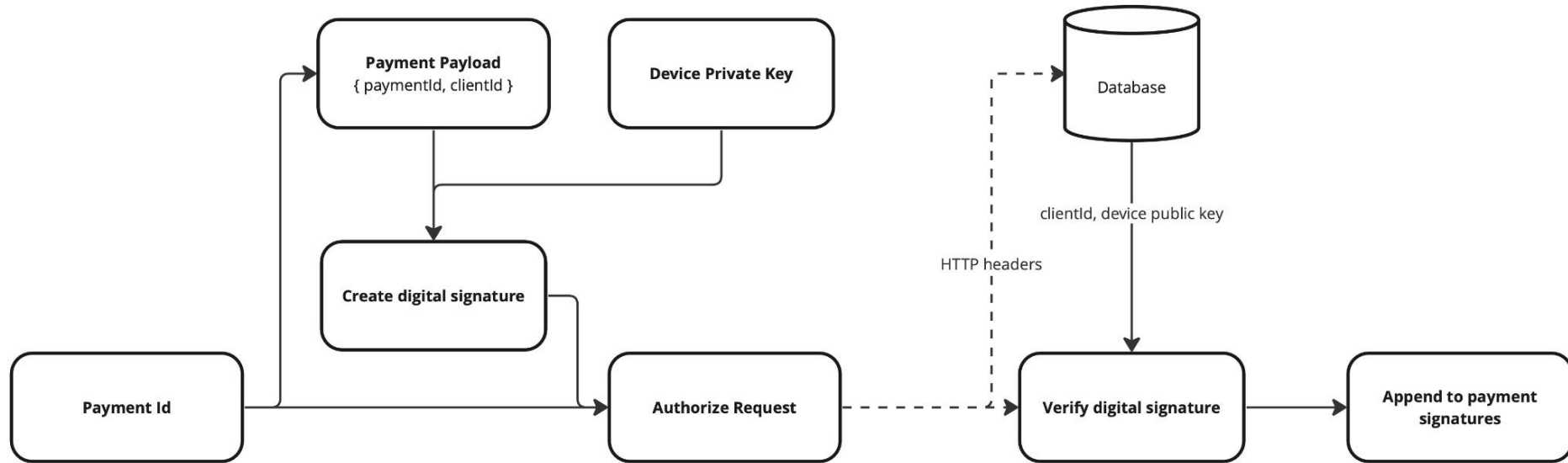
Freshness
IV



```
export interface SecureData {  
  headers: {  
    mic: string;  
    nonce: string;  
    session-id: string;  
  }  
  data: string;  
}
```

Security Challenge

Payments system



Demonstration

Q/A