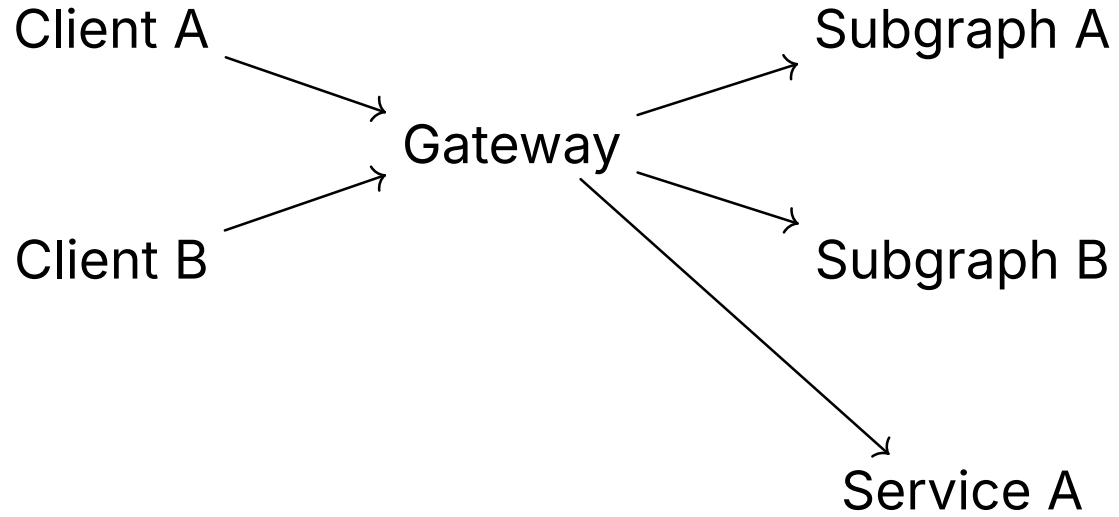




# Authorization in Federated GraphQL

Tom Houlé

# Federated GraphQL



# Why Authorize in the Gateway

- First point of contact to the outside world

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- First point of contact to the outside world
- Whole schema view
- Whole request context
- Entity resolvers make subgraphs lose context

# Entity resolvers make subgraphs lose context

```
1 query {  
2   currentUser {  
3     directMessages {  
4       author { name }  
5       content  
6     }  
7   }  
8 }
```

GraphQL

VS

```
1 query {  
2   _entities(representations:  
3     [{ __typename: "User", id: "1" }]) {  
4     ... on User {  
5       directMessages {  
6         author { name }  
7         content  
8       }  
9     }  
10 }
```

GraphQL

# Federation v2 Standard Directives

```
1 directive @authenticated on
2     FIELD_DEFINITION
3     | OBJECT
4     | INTERFACE
5     | SCALAR
6     | ENUM
```





# Federation v2 Standard Directives

```
1 directive @requiresScopes(scopes: [[federation__Scope!]!]) on
2     FIELD_DEFINITION
3     | OBJECT
4     | INTERFACE
5     | SCALAR
6     | ENUM
```



# Federation v2 Standard Directives

```
1 directive @policy(policies: [[federation__Policy!]!]) on
2     FIELD_DEFINITION
3     | OBJECT
4     | INTERFACE
5     | SCALAR
6     | ENUM
```



# Limitations

# Extensions as the next steps

# Why integration with the query planner matters

# ABAC and ReBAC

# Conclusion

Workshop tomorrow in ...

# Links