

Mapping to Swift

Compiler Enforces Completeness

```
) -> AccessResult {  
    switch (role, resource, action, isOwner) {  
        // Admin can do anything  
        case (.admin, _, _, _):  
            return .allow
```

Switch must be exhaustive

```
    // All other cases denied (explicit enumeration for exhaustiveness)  
    case (.user, .publicResource, .write, _),  
        (.user, .publicResource, .delete, _),  
        (.user, .sharedResource, .write, _),  
        (.user, .sharedResource, .delete, _),  
        (.user, .privateResource, .read, false),  
        (.user, .privateResource, .write, false),  
        (.user, .privateResource, .delete, false),  
        (.guest, .publicResource, .write, _),  
        (.guest, .publicResource, .delete, _),  
        (.guest, .sharedResource, _, _),  
        (.guest, .privateResource, _, _):  
        return .deny  
}
```

Demo

[TODO ad link to gh playground]