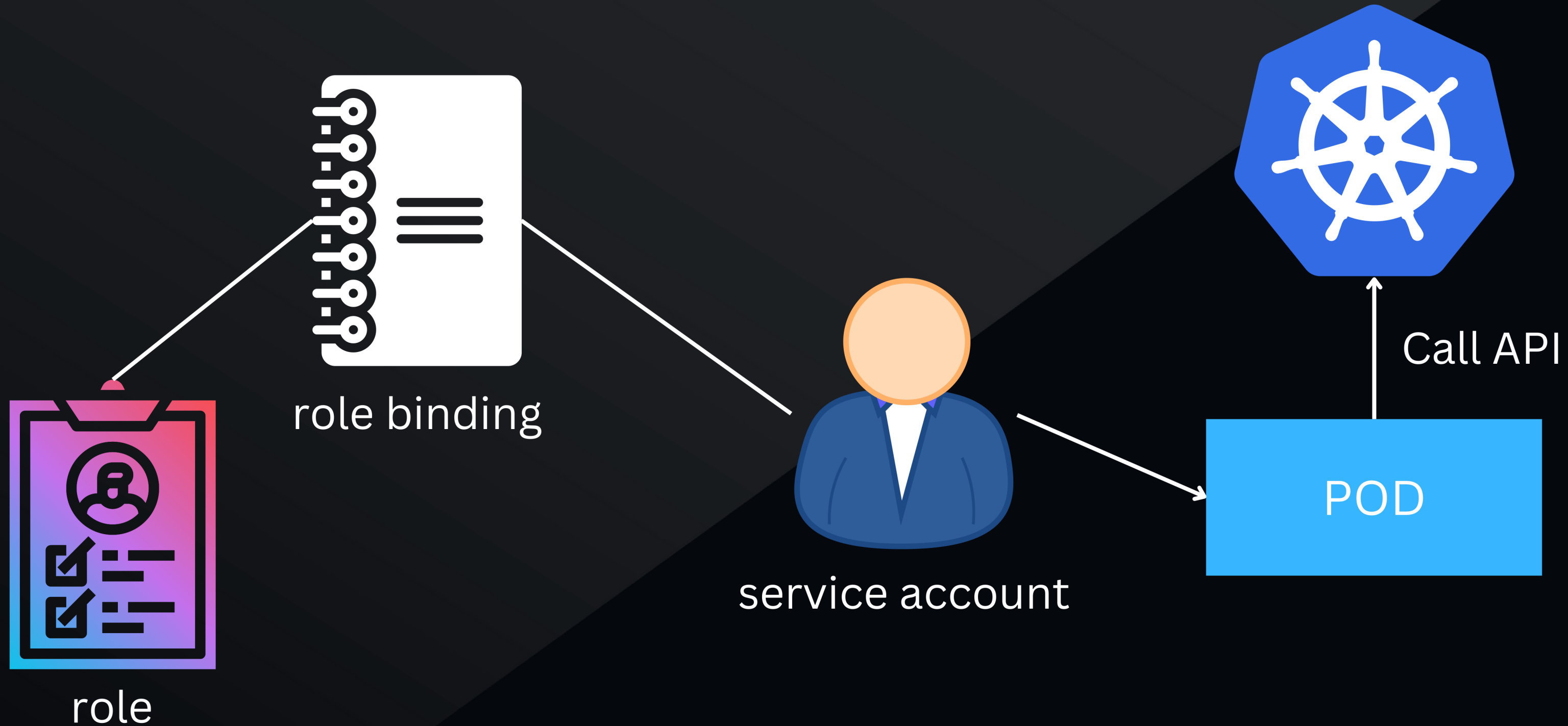


SERVICE ACCOUNT



- Service account is an identity that is **used by pods to access the Kubernetes API and other Kubernetes resources**
- It has **limited permissions** and can only access resources that are explicitly allowed by Kubernetes **RBAC (Role-Based Access Control) policies**
- Every pod in the cluster needs to have **one (and only one) service** account
- Usage
 - **Accessing the Kubernetes API** to read or modify configuration information
 - **Creating or modifying Kubernetes resources**, such as pods, services, or deployments
 - **Authenticating with external systems**, such as cloud providers or databases, using credentials stored in a Kubernetes secret

SERVICE ACCOUNT DIAGRAM



SERVICE ACCOUNT & ROLE



```
1  apiVersion: v1
2  kind: ServiceAccount
3  metadata:
4    name: jarvis-svc-acct
5    namespace: default
6
```



```
1  apiVersion: rbac.authorization.k8s.io/v1
2  kind: Role
3  metadata:
4    name: read-only-role
5    namespace: default
6  rules:
7  - apiGroups: # core group
8    - ""
9    resources:
10     - pods
11    verbs:
12     - get
13     - list
14     - watch
```

RB & ASSOCIATE TO POD



```
1  apiVersion: rbac.authorization.k8s.io/v1
2  kind: RoleBinding
3  metadata:
4    name: jarvis-rolebinding
5    namespace: default
6  roleRef:
7    kind: Role
8    name: read-only-role
9    apiGroup: rbac.authorization.k8s.io
10 subjects:
11 - kind: ServiceAccount
12   name: jarvis-svc-acct
13   namespace: default
14
```



```
1  spec:
2    # serviceAccountName: jarvis-svc-acct
3    containers:
4      - name: django-app
5        image: joonlee0228/django:0.0.1
6        resources:
7          requests:
8            cpu: "100m"
9        env:
```

TEST W/O SERVICE ACCOUNT



TEST WITH SERVICE ACCOUNT

