



kubernetes

Kubernetes: RBAC Access Management

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- **RBAC** is an access management technique in Kubernetes.
- RBAC uses the **rbac.authorization.k8s.io** API group to drive authorization decisions.
- **RBAC** also allowing admins to **dynamically configure policies** through the Kubernetes API.
- User can Verify the RBAC status on Cluster via hitting the command:
kubectl api-versions
- Other wise user needs to enable the **RBAC** on Cluster.

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- The RBAC model in Kubernetes is based on three elements:
- **Roles:** Definition of the permissions for each Kubernetes resource type.
- **Subjects:** Users (human or machine users) or groups of users.
- **RoleBindings:** definition of what Subjects have which Roles.
- Roles Must be define on **NameSpace**.

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- **ClusterRoles and ClusterRoleBindings** : Apart from the Roles and RoleBinding we also have ClusterRole and ClusterRoleBindings in Kuberntes.
- Application of ClusterRoles and ClusterRoleBindings.
- Give permissions for non-namespaced resources like nodes.
- Give permissions for resources in all the namespaces of a cluster.
- Give permissions for non-resource endpoints like /healthz

Will see you in Next Lecture...

Thank you!

A close-up photograph of a hand holding a black marker, writing the words 'Thank you!' in a cursive script on a white surface. The hand is positioned on the right side of the frame, with the marker tip touching the paper. The background is plain white.

See you in next lecture ...