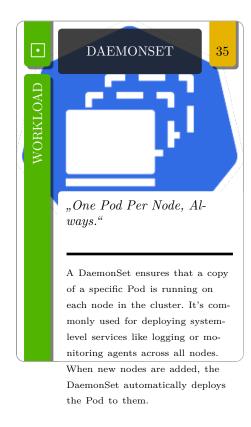
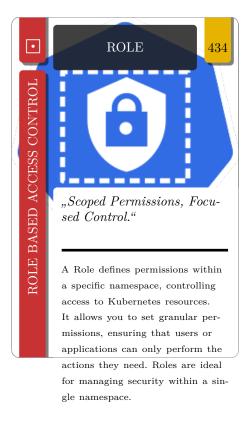
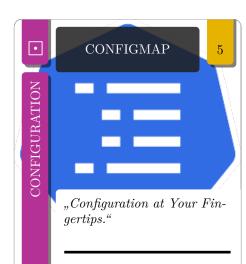


A Service is an abstraction that defines a logical set of Pods and a policy by which to access them. It provides stable IP addresses and DNS names, allowing you to expose an application running on a set of Pods to other applications or external users. Services can route traffic to Pods across multiple nodes.

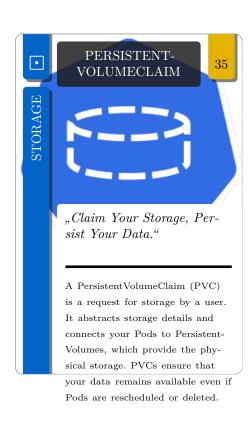


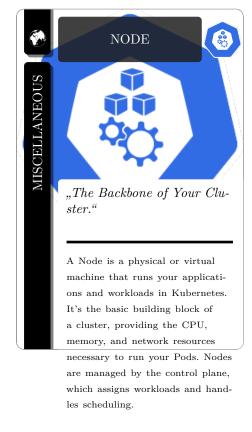


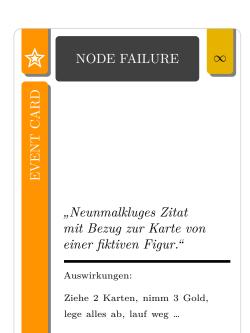


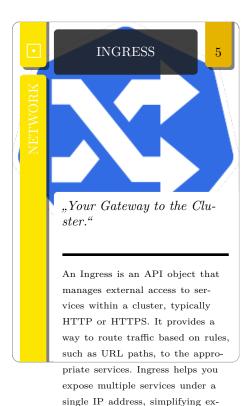


A ConfigMap stores key-value pairs that Pods can use for configuration data. It decouples environment-specific configurations from container images, making it easier to manage and update settings without rebuilding images. ConfigMaps are ideal for keeping configuration data separate from application code.

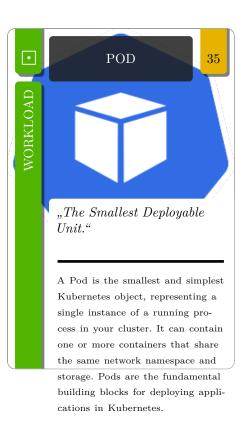


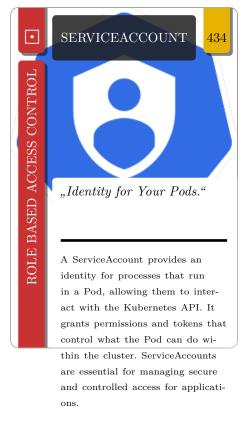


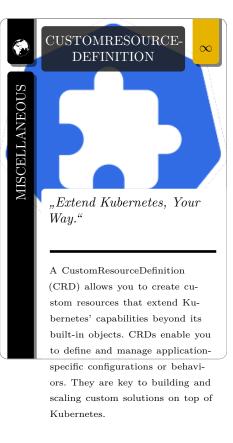




ternal access management.

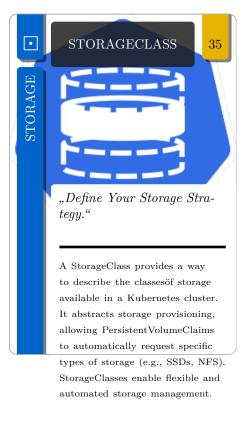


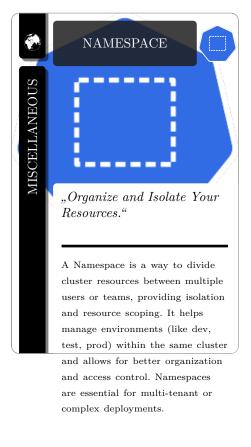


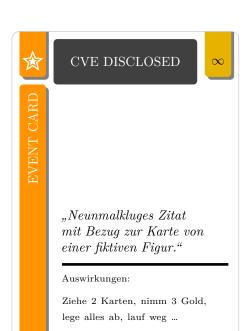


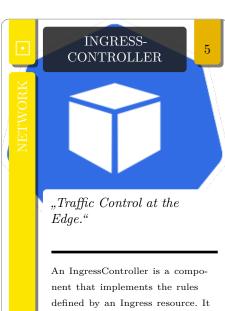


A Secret is used to store and manage sensitive information, such as passwords, tokens, or keys, securely in your cluster. It decouples sensitive data from application code, ensuring that credentials and other secrets are not exposed in plain text. Secrets help maintain security best practices in Kubernetes.

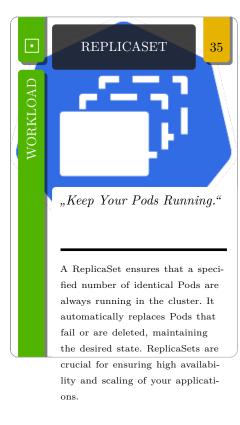


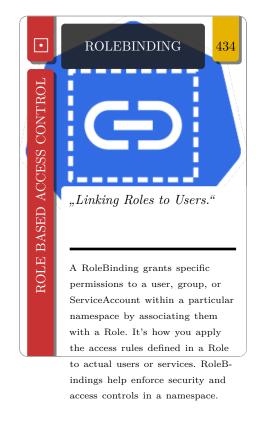




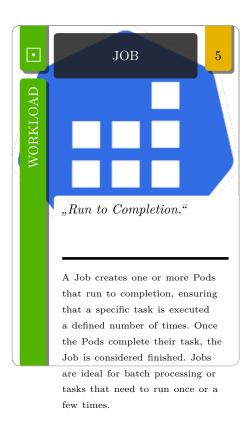


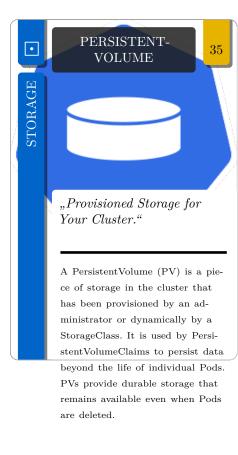
An IngressController is a component that implements the rules defined by an Ingress resource. It processes incoming HTTP/HTTPS requests and routes them to the appropriate Services in the cluster. IngressControllers are essential for managing external traffic and ensuring it reaches the correct endpoints.

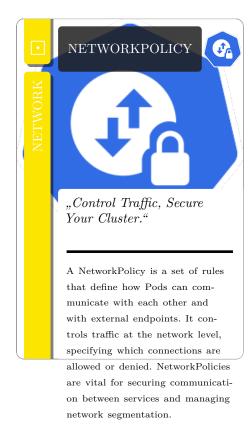




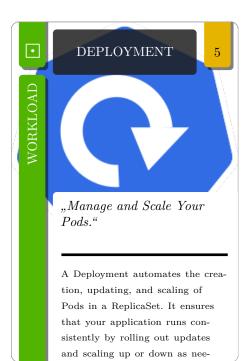








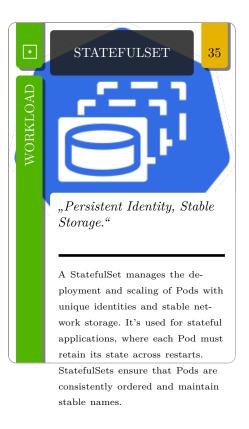


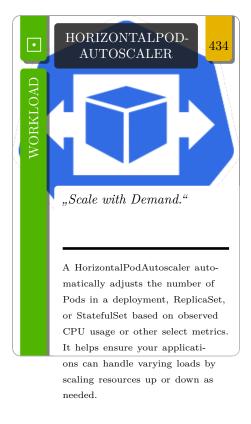


ded. Deployments are essential for

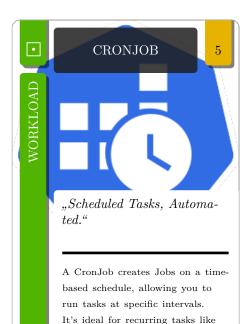
managing the lifecycle of stateless

applications in Kubernetes.









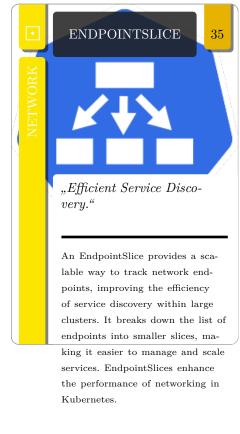
backups, reports, or maintenance

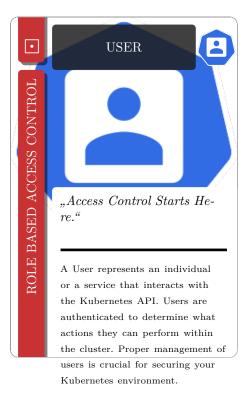
scripts. CronJobs automate routi-

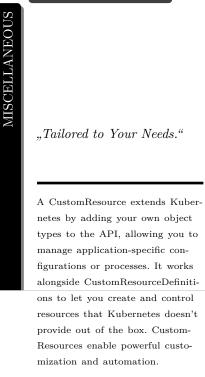
ne operations, ensuring they run

tion.

regularly without manual interven-







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