1. How do you list all the pods running in a specific namespace?

Answer:

```arduino
Copy code
kubectl get pods -n <namespace>
```

Example:

```arduino
Copy code
kubectl get pods -n default
```

2. How do you view detailed information about a specific pod?

Answer:

```php
Copy code
kubectl describe pod <pod-name> -n <namespace>
```

Example:

```sql
Copy code
kubectl describe pod my-pod -n default
```

3. How do you create a pod using a YAML file?

Answer:

```php
Copy code
kubectl apply -f <filename>.yaml
```

Example:

```
Copy code
kubectl apply -f pod.yaml
```

4. How do you delete a pod in Kubernetes?

Answer:

```arduino
Copy code
kubectl delete pod <pod-name> -n <namespace>
```

Example:

```arduino
Copy code
kubectl delete pod my-pod -n default
```

5. How do you check the logs of a pod?

Answer:

```php
Copy code
kubectl logs <pod-name> -n <namespace>
```

Example:

```arduino
Copy code
kubectl logs my-pod -n default
```

If the pod has multiple containers, use:

```php
Copy code
kubectl logs <pod-name> -c <container-name> -n <namespace>
```

6. How do you scale a deployment in Kubernetes?

Answer:

```php
Copy code
kubectl scale deployment <deployment-name> --replicas=<number-of-replicas>
```

Example:

```css
Copy code
```

```
kubectl scale deployment my-deployment --replicas=3
```

7. How do you view the status of all the nodes in the Kubernetes cluster?

Answer:

```
arduino
Copy code
kubectl get nodes
```

8. How do you create a namespace in Kubernetes?

Answer:

```
arduino
Copy code
kubectl create namespace <namespace-name>
```

Example:

```
arduino
Copy code
kubectl create namespace dev-environment
```

9. How do you delete a namespace in Kubernetes?

Answer:

```
arduino
Copy code
kubectl delete namespace <namespace-name>
```

Example:

```
arduino
Copy code
kubectl delete namespace dev-environment
```

10. How do you expose a deployment as a service in Kubernetes?

Answer:

```
php
```

```
Copy code
kubectl expose deployment <deployment-name> --type=<service-type> --
port=<port> --target-port=<container-port>
```

Example:

```
css
Copy code
kubectl expose deployment my-deployment --type=NodePort --port=80 --target-
port=8080
```

11. How do you get the external IP of a service?

Answer:

```
arduino
Copy code
kubectl get service <service-name> -o wide
```

12. How do you check events related to a pod?

Answer:

```
arduino
Copy code
kubectl get events --field-selector involvedObject.name=<pod-name> -n
<namespace>
```

Example:

```
arduino
Copy code
kubectl get events --field-selector involvedObject.name=my-pod -n default
```

13. How do you get information about the cluster?

Answer:

```
Copy code
kubectl cluster-info
```

14. How do you update a resource using a YAML file in Kubernetes?

Answer:

```php
Copy code
kubectl apply -f <filename>.yaml
```

This command can be used for both creating and updating resources.

15. How do you set a specific context in Kubernetes?

Answer:

```arduino
Copy code
kubectl config use-context <context-name>
```

16. How do you view all the current contexts available in your Kubernetes configuration?

Answer:

```arduino
Copy code
kubectl config get-contexts
```

17. How do you execute a command inside a running pod?

Answer:

```bash
Copy code
kubectl exec <pod-name> -- <command>
```

Example:

```bash
Copy code
kubectl exec my-pod -- ls /app
```

For interactive shell access:

```bash
Copy code
```

```
kubectl exec -it <pod-name> -- /bin/bash
```

18. How do you apply a label to a Kubernetes resource?

Answer:

```
php
Copy code
kubectl label <resource-type> <resource-name> <label-key>=<label-value>
```

Example:

```
css
Copy code
kubectl label pod my-pod environment=dev
```

19. How do you check all resources with a specific label in Kubernetes?

Answer:

```
php
Copy code
kubectl get <resource-type> -l <label-key>=<label-value>
```

Example:

```
arduino
Copy code
kubectl get pods -l environment=dev
```

20. How do you edit a running resource in Kubernetes?

Answer:

```
php
Copy code
kubectl edit <resource-type> <resource-name> -n <namespace>
```

Example:

```
arduino
Copy code
kubectl edit deployment my-deployment -n default
```

21. How do you get the YAML output of a resource?

Answer:

```php
Copy code
kubectl get <resource-type> <resource-name> -o yaml
```

Example:

```arduino
Copy code
kubectl get pod my-pod -o yaml
```

22. How do you roll back a deployment to a previous revision?

Answer:

```php
Copy code
kubectl rollout undo deployment/<deployment-name>
```

Example:

```bash
Copy code
kubectl rollout undo deployment/my-deployment
```

23. How do you get the history of a deployment?

Answer:

```bash
Copy code
kubectl rollout history deployment/<deployment-name>
```

Example:

```bash
Copy code
kubectl rollout history deployment/my-deployment
```

24. How do you delete a deployment in Kubernetes?

Answer:

```arduino
Copy code
kubectl delete deployment <deployment-name> -n <namespace>
```

Example:

```arduino
Copy code
kubectl delete deployment my-deployment -n default
```

25. How do you check the version of the Kubernetes cluster and `kubectl`?

Answer:

```arduino
Copy code
kubectl version --short
```