50 common errors in Kubernetes and some tips on troubleshooting them:

1. **Pod in CrashLoopBackOff:**
    - Check the pod logs using `kubectl logs`.
    - Ensure the required dependencies are available.

2. **ImagePullBackOff:**
    - Verify the image name and availability.
    - Check image pull secrets and registry authentication.

3. **Invalid ClusterIP or Service Port:**
    - Ensure correct service and port configurations.
    - Verify network policies and firewall rules.

4. **NodeNotReady:**
    - Check the node's status with `kubectl get nodes`.
    - Examine the kubelet logs on the node.

5. **Insufficient Resources:**
    - Confirm resource requests and limits in pod specifications.
    - Use `kubectl describe` to analyze resource allocations.

6. **CrashLoopBackOff for Init Containers:**
    - Inspect init container logs and configurations.
    - Ensure init container dependencies are satisfied.

7. **ConfigMap or Secret Mounting Issues:**
    - Verify ConfigMap/Secret existence and correctness.
    - Check pod configuration for volume mounts.

8. **Pod stuck in Pending state:**
    - Investigate resource constraints on the nodes.
    - Examine events with `kubectl describe pod`.

9. **API Server Unreachable:**
    - Verify API server status.
    - Check kubeconfig file for correct API server address.

10. **Network Policy Restrictions:**
    - Inspect network policies.
    - Ensure correct podSelector and policy rules.

11. **RBAC Permission Issues:**
    - Validate service account permissions.
    - Check ClusterRoleBindings and RoleBindings.

12. **PersistentVolumeClaims (PVC) Pending:**
    - Check available storage classes.
    - Ensure the requested storage is available.

13. **NodePort Service Not Accessible:**
    - Confirm the node's firewall allows the specified port.
    - Check Service and NodePort configurations.

14. **Kube-proxy Issues:**
    - Inspect kube-proxy logs for errors.
    - Verify kube-proxy configuration.

15. **DNS Resolution Problems:**
    - Verify CoreDNS status.
    - Check DNS policy and cluster DNS settings.

16. **Pod Eviction Due to Resource Pressure:**
    - Check resource usage across nodes.
    - Adjust resource limits or add more nodes.

17. **NodeOutOfMemory:**
    - Inspect node memory usage.
    - Check for memory leaks in applications.

18. **Volume Mount Permissions:**
    - Ensure correct file permissions in mounted volumes.
    - Verify SELinux or AppArmor settings.

19. **Ingress Controller Misconfiguration:**
    - Validate Ingress resource configurations.
    - Check the Ingress controller logs.

20. **ETCD Cluster Issues:**
    - Check etcd pod logs.
    - Verify etcd cluster health.

21. **CNI Plugin Issues:**
    - Verify CNI plugin status on nodes.
    - Check plugin configurations and logs.

22. **Invalid Labels or Selectors:**
    - Ensure correct labels and selectors in resources.
    - Use `kubectl get` with appropriate labels.

23. **Pod Security Policies:**
    - Check PodSecurityPolicy (PSP) violations.
    - Adjust PSP or use PodSecurity admission controllers.

24. **Kubelet Certificate Rotation:**
    - Monitor kubelet certificate expiration.
    - Rotate certificates if needed.

25. **Cluster Autoscaler Issues:**
    - Verify autoscaler configuration.
    - Check node group scaling policies.

26. **ServiceAccount Token Expiration:**
    - Ensure service account tokens are not expired.
    - Rotate service account tokens if needed.

27. **Scheduler Issues:**
    - Inspect scheduler logs for errors.
    - Check for node affinity and anti-affinity issues.

28. **Readiness and Liveness Probe Failures:**
    - Review pod configurations for probes.
    - Check probe logs and adjust thresholds.

29. **Inconsistent API Versions:**
    - Verify client and server API versions match.
    - Use compatible kubectl versions.

30. **Kube-dns Service Missing:**
    - Ensure CoreDNS (or kube-dns) service is running.
    - Validate DNS settings in kubelet configurations.

31. **ImageRegistryAuthentication:**
    - Check image pull secrets in pod specifications.
    - Verify registry credentials.

32. **HorizontalPodAutoscaler Not Scaling:**
    - Check metrics server and HPA configurations.
    - Inspect HPA events and logs.

33. **Pod Affinity/Anti-affinity Issues:**
    - Verify pod affinity/anti-affinity rules.
    - Check node labels for affinity.

34. **Custom Resource Definitions (CRD) Issues:**
    - Validate CRD creation and versions.
    - Check for CRD controller errors.

35. **Resource Quotas Exceeded:**
    - Review resource quotas with `kubectl describe`.
    - Adjust quotas or request more resources.

36. **RuntimeClass Configuration Issues:**
    - Verify RuntimeClass in PodSpec.
    - Check container runtime compatibility.

37. **Secrets Decoding Errors:**
    - Validate encoded secrets.
    - Ensure proper base64 encoding.

38. **Invalid Ingress Controller Configuration:**
    - Inspect Ingress controller logs.
    - Verify controller configurations.

39. **Pod Priority and Preemption Issues:**
    - Check priorityClass in PodSpec.
    - Verify kube-scheduler settings.

40. **Node Network Connectivity Issues:**
    - Check node network configurations.
    - Verify firewall rules on nodes.

41. **Service External IP Not Assigned:**
    - Check cloud provider integration.
    - Verify LoadBalancer service configurations.

42. **PodSecurityContext Misconfigurations:**
    - Validate pod security context settings.
    - Ensure compatibility with node settings.

43. **Kubelet Certificate Rotation Issues:**
    - Monitor and rotate kubelet certificates.
    - Verify certificate expiration dates.

44. **Volume Plugin Not Loaded:**
    - Check kubelet logs for volume plugin errors.
    - Verify plugin installation and configuration.

45. **NetworkPolicy Not Enforced:**
    - Check NetworkPolicy existence.
    - Inspect podSelector and policy rules.

46. **Image Vulnerability Scanning Failures:**
    - Integrate image scanning tools.
    - Ensure scanning results are reviewed.

47. **Pods Stuck in Terminating State:**
    - Check for stuck processes in containers.
    - Examine pod logs for termination issues.

48. **Invalid Pod Restart Policy:**
    - Verify restartPolicy in PodSpec.
    - Adjust policy if necessary.

49. **Incorrect Ingress Path Matching:**
    - Check path specifications in Ingress rules.
    - Verify backend service configurations.

50. **NodeDrain Failures:**
    - Check node drain status with `kubectl drain`.
    - Investigate any evicted pods.

When troubleshooting, it's crucial to gather information from various sources such as logs, events, and configuration files. Use `kubectl describe`, `kubectl logs`, and relevant logs from components like kubelet, kube-proxy, and controllers. Additionally, monitoring tools and dashboards can help identify patterns and trends in the cluster's behavior.