# Comprehensive Troubleshooting Command Reference Guide

For Senior DevOps/Azure Cloud Engineers supporting Pre-Prod and Production environments for critical applications.

## 1. Git Troubleshooting

Common Git issues encountered in production workflows.

git status # Check current status of the repository  
git log --oneline --graph # View commit history in a tree structure  
git reflog # Check previous states of HEAD for recovery  
git reset --hard HEAD~1 # Reset the last commit (use cautiously)  
git stash # Temporarily store uncommitted changes  
git fsck --full # Check for corrupted objects

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## 2. Azure Troubleshooting

Commands to diagnose and resolve Azure-related issues.

az account show # Verify active Azure account  
az aks get-credentials --resource-group MyResourceGroup --name MyAKSCluster  
az vm list -o table # List all VMs in the account  
az network nsg list # Check Network Security Groups (NSG)  
az monitor activity-log list # View activity logs for troubleshooting

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## 3. Docker Troubleshooting

Commands to troubleshoot Docker container issues.

docker ps -a # List all running and stopped containers  
docker logs <container-id> # Check logs of a specific container  
docker inspect <container-id> # Inspect container configuration  
docker stats # Monitor container resource usage  
docker system prune -a # Cleanup unused images and containers

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## 4. Kubernetes Troubleshooting

Commands to troubleshoot Kubernetes-related issues in production.

kubectl get nodes # Check the status of nodes in the cluster  
kubectl describe pod <pod-name> # Get detailed information about a pod  
kubectl logs <pod-name> # View logs of a failing pod  
kubectl exec -it <pod-name> -- /bin/sh # Access shell inside a running pod  
kubectl get events --sort-by=.metadata.creationTimestamp # View event history

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## 5. Ansible Troubleshooting

Commands for troubleshooting Ansible automation failures.

ansible-inventory --list # Check inventory details  
ansible all -m ping # Test connectivity to all hosts  
ansible-playbook --syntax-check site.yml # Check for syntax errors  
ansible-playbook site.yml --limit webserver -vvvv # Debug with verbose mode

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## 6. Splunk Troubleshooting

Commands to diagnose issues in Splunk log monitoring.

splunk status # Check if Splunk is running  
splunk restart # Restart Splunk instance  
index=prod\_logs error OR fail # Search for errors in production logs  
index=security\_logs | stats count by source # Analyze security log sources

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## 7. Linux Troubleshooting

Essential Linux commands for troubleshooting system issues.

df -h # Check disk space usage  
top # Monitor running processes and CPU usage  
journalctl -xe # View system logs for errors  
netstat -tulnp # Check open network ports  
ping google.com # Test internet connectivity

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## 8. Veracode Troubleshooting

Commands to troubleshoot Veracode security scans.

veracode scan --app MyApp --file myapp.jar # Run security scan  
veracode get-report --app MyApp # Retrieve security report  
veracode get-findings --app MyApp # List security vulnerabilities

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## 9. SonarQube Troubleshooting

Commands to troubleshoot SonarQube code quality issues.

sonar-scanner -Dsonar.projectKey=myproject -Dsonar.host.url=http://sonarqube.mycompany.com  
sonar-quality-gate wait # Wait for quality gate result  
sonar-project.properties # Check SonarQube configuration

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_