# DevOps Tool Installation and Configuration Guide

## 1. Install Helm 3

curl https://raw.githubusercontent.com/helm/helm/main/scripts/get-helm-3 | bash  
helm --version

## 2. Install Trivy (Vulnerability Scanner)

curl -sfL https://raw.githubusercontent.com/aquasecurity/trivy/main/contrib/install.sh | sudo sh -s -- -b /usr/local/bin v0.67.2  
sudo cp /usr/local/bin/trivy /usr/bin/  
trivy --version

## 3. Install TruffleHog (Secret Scanner)

curl -sSfL https://raw.githubusercontent.com/trufflesecurity/trufflehog/main/scripts/install.sh | sh -s -- -b /usr/local/bin  
sudo cp /usr/local/bin/trufflehog /usr/bin/  
trufflehog --version

## 4. Install TFSec (Terraform Security Scanner)

curl -s https://raw.githubusercontent.com/aquasecurity/tfsec/master/scripts/install\_linux.sh | bash  
sudo cp /usr/local/bin/tfsec /usr/bin/  
tfsec --version

## 5. Install Terraform (Infrastructure as Code)

sudo yum install -y yum-utils  
sudo yum-config-manager --add-repo https://rpm.releases.hashicorp.com/RHEL/hashicorp.repo  
sudo yum -y install terraform  
terraform version

## 6. Install Checkov (IaC Security Scanner)

pip install checkov  
sudo cp /usr/local/bin/checkov /usr/bin/  
checkov --version

## 7. Setup Docker Private Registry

sudo docker run -d \  
 --name registry \  
 --restart=always \  
 -p 0.0.0.0:5000:5000 \  
 -v /opt/registry/data:/var/lib/registry \  
 registry:2

## 8. Install Jenkins (Automation Server)

# Set Hostname  
sudo hostnamectl set-hostname jenkins-server  
  
# Install Java  
sudo dnf install -y java-17-openjdk  
  
# Add Jenkins Repository and Key  
sudo wget -O /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.repo  
sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key  
  
# Install Dependencies  
sudo dnf install -y wget git jq  
  
# Install Jenkins  
sudo dnf install -y jenkins  
  
# Enable and Start Jenkins  
sudo systemctl enable jenkins  
sudo systemctl start jenkins  
  
# Retrieve Initial Admin Password  
sudo cat /var/lib/jenkins/secrets/initialAdminPassword