

Jenkins Comprehensive Cheat Sheet

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Jenkins CLI Commands

```
# List installed plugins
java -jar jenkins-cli.jar -s http://localhost:8080 list-plugins

# Start a Jenkins job
java -jar jenkins-cli.jar -s http://localhost:8080 build my-job

# Get Jenkins system info
java -jar jenkins-cli.jar -s http://localhost:8080 system-info

# Restart Jenkins
java -jar jenkins-cli.jar -s http://localhost:8080 restart
```

Pipeline Syntax (Declarative)

```
pipeline {
  agent any
  stages {
    stage('Build') {
      steps {
        sh 'echo Building...'
      }
    }
    stage('Test') {
      steps {
        sh 'echo Testing...'
      }
    }
    stage('Deploy') {
      steps {
        sh 'echo Deploying...'
      }
    }
  }
}
```

Pipeline Syntax (Scripted)

```
node {
  stage('Build') {
    sh 'echo Building...'
  }
}
```

```
    stage('Test') {
        sh 'echo Testing... '
    }
    stage('Deploy') {
        sh 'echo Deploying... '
    }
}
```

Managing Jenkins Jobs

```
# List all Jenkins jobs
java -jar jenkins-cli.jar -s http://localhost:8080 list-jobs

# Delete a job
java -jar jenkins-cli.jar -s http://localhost:8080 delete-job my-job

# Copy a job
java -jar jenkins-cli.jar -s http://localhost:8080 copy-job old-job new-job

# Create a job from XML
java -jar jenkins-cli.jar -s http://localhost:8080 create-job my-job < config.xml
```

Working with Plugins

```
# Install a plugin
java -jar jenkins-cli.jar -s http://localhost:8080 install-plugin git

# Uninstall a plugin
java -jar jenkins-cli.jar -s http://localhost:8080 uninstall-plugin git

# List available plugins
java -jar jenkins-cli.jar -s http://localhost:8080 list-plugins | grep available
```

User Management

```
# Create a user
java -jar jenkins-cli.jar -s http://localhost:8080 create-user --username admin --password secret

# List users
java -jar jenkins-cli.jar -s http://localhost:8080 list-users

# Delete a user
java -jar jenkins-cli.jar -s http://localhost:8080 delete-user admin
```

Jenkins System Configuration

```
# Reload configuration
java -jar jenkins-cli.jar -s http://localhost:8080 reload-configuration

# Backup Jenkins configuration
tar -czvf jenkins-backup.tar.gz /var/lib/jenkins
```