
Complete Jenkins-Slack Integration via Webhook

PART 1: Create Slack App and Webhook URL

◆ Step 1: Create Slack App

1. Go to 🖱️ <https://api.slack.com/apps>
 2. Click **"Create New App"**
 3. Choose **"From scratch"**
 4. Enter:
 - **App Name:** jenkins
 - **Workspace:** Aditya
 5. Click **Create App**
-

◆ Step 2: Enable Webhooks

1. In left sidebar → Click **"Incoming Webhooks"**
 2. Toggle **"Activate Incoming Webhooks"** ☒
-

◆ Step 3: Add Webhook to a Channel

1. Scroll to the bottom → Click **"Add New Webhook to Workspace"**
2. Select Channel: #general (or any public channel)
3. Click **Allow**
4. Copy the generated **Webhook URL**
Example:

<https://hooks.slack.com/services/T0XXXX/B0YYYY/ZZZZZ>

xoxb-9243249570999-9253925254595-WomhXuMlqC2bbCLTpnlUeziu

<https://hooks.slack.com/services/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>

PART 2: OAuth Scopes Required (⚠ MANDATORY)

If you're **NOT** using incoming webhook and want bot integration via token in the future, **you must add these scopes**:

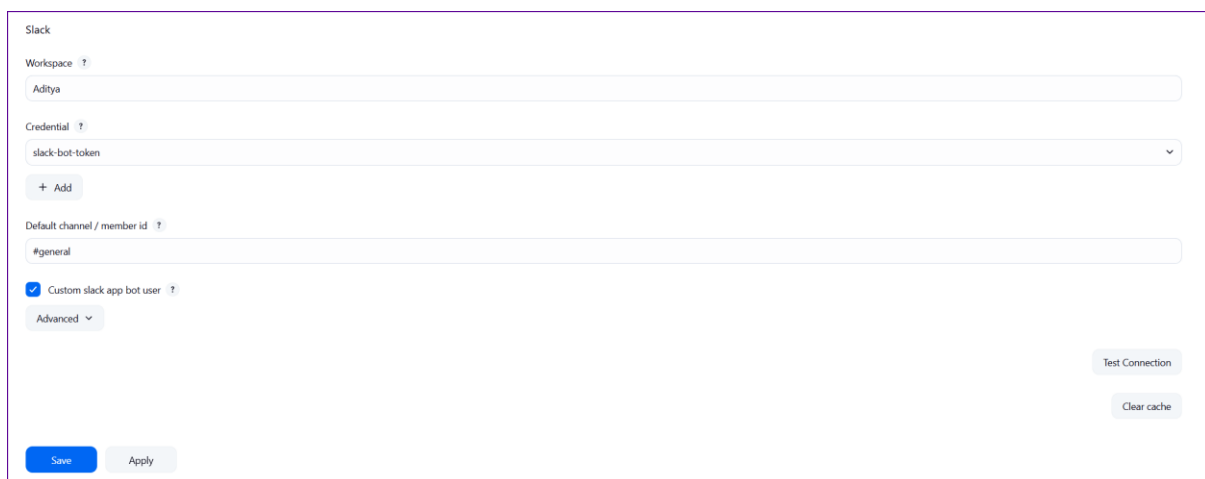
OAuth Scope	Description
chat:write	Send messages as the bot
chat:write.public	Send messages to public channels not joined
channels:read	Read public channels
groups:read	Read private channels
users:read	Read user info (optional for mentions)

Not all are needed for webhook-only method, but **critical if using token-based plugin** (plugin failed in your case, so webhook is best).

To add:

- Go to **OAuth & Permissions** → Scroll to **Scopes**
- Click **Add an OAuth Scope** → Add all above
- Then go back to top and click **“Reinstall to Workspace”**

PART 3: Add Webhook into Jenkinsfile



The screenshot shows the Jenkins configuration page for a Slack integration. The form includes the following fields and options:

- Workspace**: A text input field containing "Aditya".
- Credential**: A dropdown menu showing "slack-bot-token".
- Default channel / member id**: A text input field containing "#general".
- ☒ **Custom slack app bot user**: A checkbox that is checked.
- Advanced**: A dropdown menu.
- Buttons**: "Save", "Apply", "Test Connection", and "Clear cache".

◆ Step 4: Jenkinsfile (Working Example)

```

pipeline {
  agent any

  environment {
    PROJECT_NAME = '📦 My-App'
    ENVIRONMENT = '🚀 Production'
  }

  stages {
    stage('Compile') {
      steps {
        echo "⌚ Compiling..."
      }
    }
    stage('Test') {
      steps {
        echo "🧪 Running tests..."
      }
    }
    stage('Build') {
      steps {
        echo "🏗️ Building..."
      }
    }
    stage('Security') {
      steps {
        echo "🔒 Security..."
      }
    }
    stage('Deploy') {
      steps {
        echo "🚀 Deploy..."
      }
    }
  }

  post {
    success {
      withCredentials([string(credentialsId: 'slack-webhook', variable: 'SLACK_URL')]) {
        script {
          def message = ""
          "text": "*✅ ${PROJECT_NAME} Build Successful!*"
          "attachments": [
            {
              "color": "#36a64f",

```

```
"fields": [
    { "title": "Job", "value": "${env.JOB_NAME}", "short": true },
    { "title": "Build", "value": "#${env.BUILD_NUMBER}", "short": true },
    { "title": "Environment", "value": "${ENVIRONMENT}", "short": true }
],
"footer": "Jenkins CI",
"footer_icon": "https://www.jenkins.io/images/logos/jenkins/jenkins.png",
"ts": ${System.currentTimeMillis() / 1000},
"actions": [
    {
        "type": "button",
        "text": "View Build",
        "url": "${env.BUILD_URL}",
        "style": "primary"
    }
]
}
}
}
}
sh """"curl -X POST -H 'Content-type: application/json' --data '${message}' $SLACK_URL"""""
}
```



```
failure {
  withCredentials([string(credentialsId: 'slack-webhook', variable: 'SLACK_URL')]) {
    script {
      def message = """"
      "text": "<!here> * ❌ ${PROJECT_NAME} Build Failed!*",
      "attachments": [
        {
          "color": "#FF0000",
          "fields": [
            { "title": "Job", "value": "${env.JOB_NAME}", "short": true },
            { "title": "Build", "value": "#${env.BUILD_NUMBER}", "short": true },
            { "title": "Environment", "value": "${ENVIRONMENT}", "short": true }
          ],
          "footer": "Jenkins CI",
          "footer_icon": "https://www.jenkins.io/images/logos/jenkins/jenkins.png",
          "ts": ${System.currentTimeMillis() / 1000},
          "actions": [
            {
              "type": "button",
              "text": "View Build Logs",
              "url": "${env.BUILD_URL}",
              "style": "danger"
            }
          ]
        }
      ]
    }
  }
}
```

```
sh ""curl -X POST -H 'Content-type: application/json' --data '${message}' $SLACK_URL""  
}  
}  
}
```

```
always {  
    echo "🔔 Post-build notification sent"  
}  
}  
}
```

PART 4: Run and Verify

◆ Step 5: Trigger Build

- Trigger build in Jenkins
- Slack channel will show:
 -  Build Passed
 -  Build Failed