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Step-by-step walkthrough for Parameter configuration

**Jenkins PRoject**

PREPARED BY:

PREPARED FOR:

**Version:** 1.0  
**Department:** Architect Department  
**Delivery:** End of Month

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# Objective

Create a Jenkins project where you can pass parameters (like ENVIRONMENT or VERSION) and use them in a build.

# Simple Parameter Example

**Step 1: Create a New Job**

1. Go to your **Jenkins dashboard**.
2. Click **“New Item”**.
3. Enter a **name** for your job, e.g., ParameterDemo
4. Select **Freestyle project**.
5. Click **OK**.

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**Step 2: Enable Parameters**

1. Scroll down to **“This project is parameterized”** and check the box.

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1. Click **Add Parameter** → select **String Parameter**.

**Example Parameters:**

| **Name** | **Default Value** | **Description** |
| --- | --- | --- |
| ENVIRONMENT | dev | Target environment |
| VERSION | 1.0 | Version of the build |

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**Step 3: Configure Build**

1. Scroll to **Build** → click **Add build step** → **Execute Windows batch command**

Sample Cript

@echo off

echo Building project...

echo Environment: %ENVIRONMENT%

echo Version: %VERSION%

IF "%ENVIRONMENT%"=="dev" (

echo Deploying to Development server...

) ELSE IF "%ENVIRONMENT%"=="qa" (

echo Deploying to QA server...

) ELSE (

echo Deploying to Production server...

)

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**Step 4: Save the Job**

1. Click **Save**.
2. Go back to the job dashboard.

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**Step 5: Build with Parameters**

1. Click **“Build with Parameters”** on the left menu.
2. Enter values for **ENVIRONMENT** and **VERSION**.

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1. Click **Build**.

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* Now Try with QA

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# Example: Passing SQL Connection Info

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**Parameters:**

| **Name** | **Type** | **Default / Example** |
| --- | --- | --- |
| DB\_USER | String | sa |
| DB\_PASSWORD | Password | \*\*\*\*\*\*\*\* |
| DB\_NAME | String | TestDB |
| DB\_CONN | String | Server=localhost;Database=TestDB; |

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Build Step Example (Windows Batch)

echo Connecting to database...

echo User: %DB\_USER%

:: Password is masked

echo Connection String: %DB\_CONN%

:: Example using SQLCMD (Windows SQL Server)

Echo “sqlcmd -S localhost -U %DB\_USER% -P %DB\_PASSWORD% -d %DB\_NAME% -Q SELECT GETDATE() “

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Now Save and Build With Parameter

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Build Now

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**Security Considerations**

* **Password parameters** are **masked in Jenkins UI & console**.
* For highly sensitive info, consider **Jenkins Credentials Plugin** and access via ${{ credentials\_ID }} instead of parameters.
* Avoid printing passwords to logs.