

Migrate Jenkins Pipeline to Elestio

This migration document focuses on the migration of the applications supported by Elestio. Find the software list [here](#)

This document provides a step-by-step guide for migrating your existing Jenkins pipelines to Elestio. Elestio is designed to enhance performance, scalability, and overall system efficiency. Before you begin the migration process, make sure to check the pre-requisites

1?? Pre-requisites

1. Create an account on [Elestio](#)
2. Log in to your Jenkins admin dashboard account on the server where your current Jenkins is deployed
3. Make sure the UI for the application is working fine and there are no critical errors detected in the application logs. If found otherwise please feel free to create a support ticket
4. When deploying the service on Elestio, use the same software version as your present service, or your data migration will fail.

2?? Configuring Jenkins server on Elestio

1. Login to your Elestio account
2. Go to Create Services and select "Jenkins"
3. Select the Cloud Service provider, region, and service plan and click Next.
4. Select the service support, name your Jenkins instance on Elestio, and click on "Create service", this will create an instance of Jenkins on VMs on the cloud you chose.
5. After deployment is ready, head over to the email linked to your account or the one you added while setting up the instance.
6. The email should contain all the details including the dashboard link and the initial password required to access the admin UI.
7. The email should be something like this

Hello,

The service details are below:

Your **Jenkins** instance is now ready!

You are able now to connect to the application at: <https://migrate-to-this-u7774.vm.elestio.app>

You will have to complete the initial setup and you will require the initial password

To find the initial password open a terminal from your service's dashboard and run these command:

```
cd /opt/app
```

Now copy the below command and paste it into the terminal.

```
docker-compose exec jenkins cat  
/var/jenkins_home/secrets/initialAdminPassword
```

8. Copy the password with the instructions given in the email and paste it into the dashboard window here

Getting Started

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log ([not sure where to find it?](#)) and this file on the server:

```
/var/jenkins_home/secrets/initialAdminPassword
```

Please copy the password from either location and paste it below.

Administrator password

3?? Importing Data

1. For this tutorial, we are going to import two simple pipelines that are already created on a source server

Dashboard >

+ New Item ✎ Add descript

👤 People All +

📄 Build History

⚙️ Manage Jenkins

📅 My Views

S	W	Name ↓	Last Success	Last Failure	Last Duration
✓	☀️	first-pipeline	1 min 15 sec #1	N/A	3.1 sec
✓	☀️	second-pipeline	32 sec #1	N/A	0.53 sec

Build Queue: No builds in the queue.

Build Executor Status: 1 Idle, 2 Idle

Icon: S M L Icon legend 📡 Atom feed for all 📡 Atom feed for failures 📡 Atom feed for just latest bui

2. Head over to your Jenkins instance dashboard on Elestio. Click on "Manage Jenkins" and select "Plugins"

Jenkins 🔍 Search (#%+K) ? 👤 admin 📄 lo

Dashboard > Manage Jenkins

+ New Item

👤 People

📄 Build History

⚙️ Manage Jenkins

📅 My Views

Build Queue: No builds in the queue.

Build Executor Status: 1 Idle, 2 Idle

Manage Jenkins

🔍 Search settings

New version of Jenkins (2.432) is available for [download](#) ([changelog](#)). Or Upgrade Automatically

Building on the built-in node can be a security issue. You should set up distributed builds. See the [documentation](#). Set up agent Set up cloud Dismiss

System Configuration

- System** Configure global settings and paths.
- Tools** Configure tools, their locations and automatic installers.
- Nodes** Add, remove, control and monitor the various nodes that Jenkins runs jobs on.
- Clouds** Add, remove, and configure cloud instances to provision agents on-demand.
- Plugins** Add, remove, disable or enable plugins that can extend the functionality of Jenkins.

3. Once you are in there install "Job import" plugin. Accordingly, you might want to restart the Jenkins too

Jenkins 🔍 Search (#%+K) ? 🔔 1 🛡️ 1 👤 admin 📄 lo

Dashboard > Manage Jenkins > Plugins

Plugins

📄 Updates

📄 Available plugins

⚙️ Installed plugins

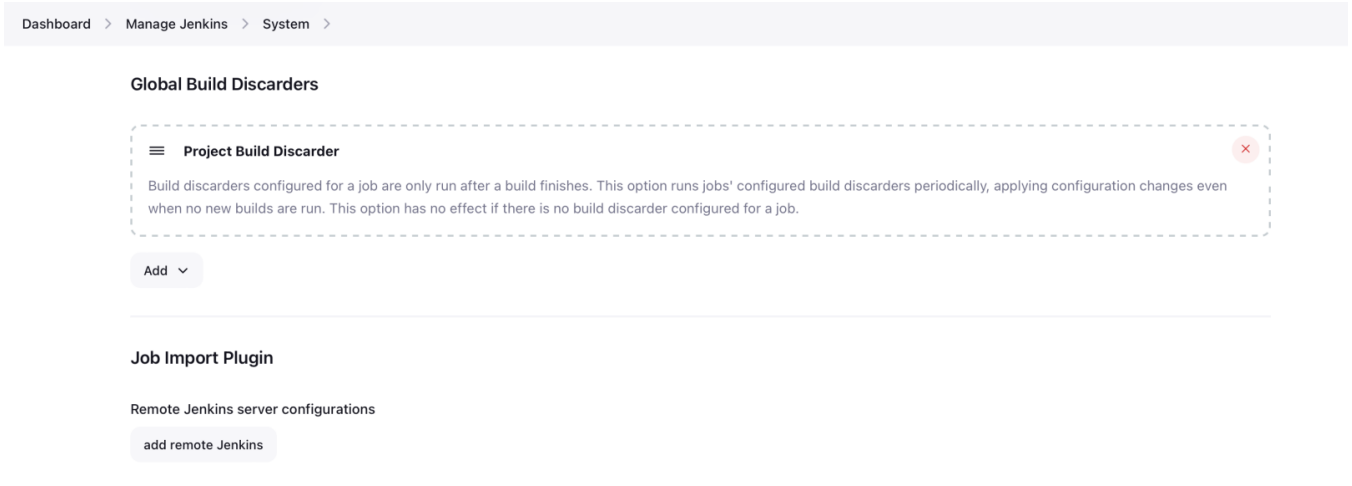
⚙️ Advanced settings

☰ Download progress

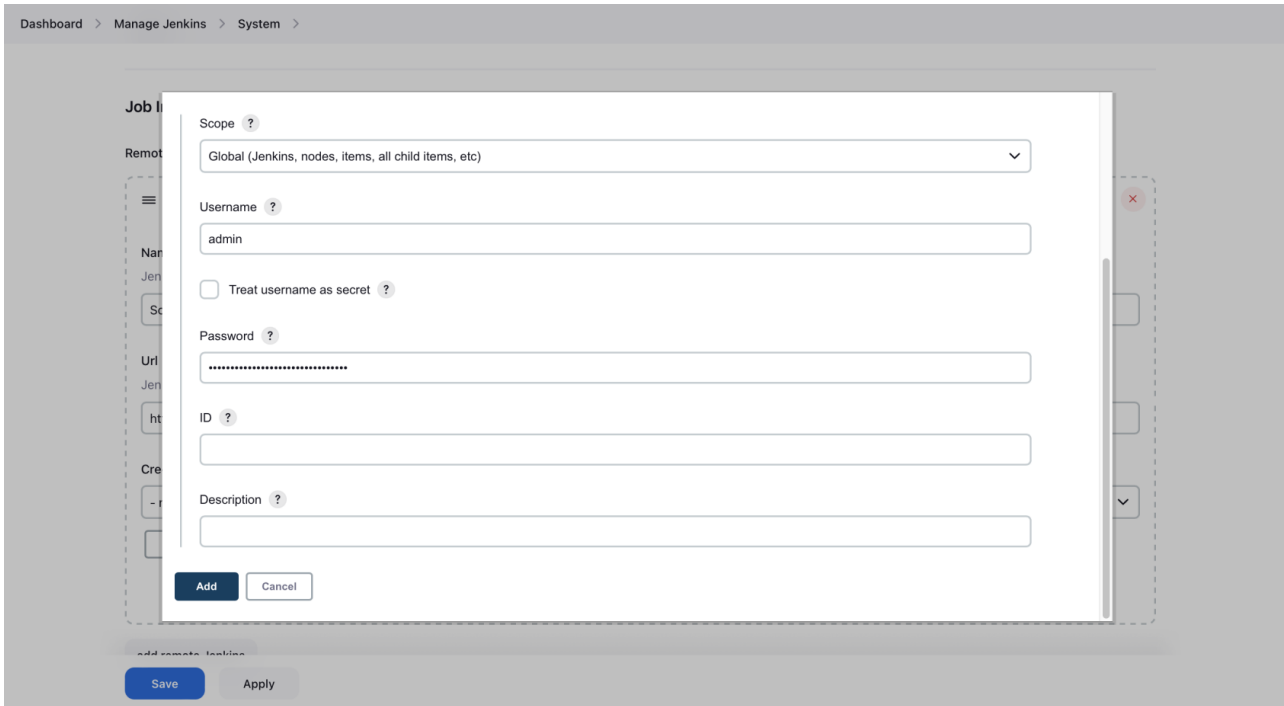
🔍 job import 📄 Install

Install	Name ↓	Released
✓	Job Import 3.6 Miscellaneous The Job Import Plugin lets you import jobs from another Jenkins instance.	1 yr 1 mo ago

- Now, head over to the "Manage Jenkins" and head over to "System" to update the configuration. Scroll down until you find the Job Import Plugin section and click on "add remote Jenkins"



- Add your original Jenkins server information as requested, you will have to add the credentials. Click on add credentials and add the credentials of your original Jenkins server



6. Select that as credentials under the drop-down and make sure you have the window looking similar to this

Job Import Plugin

Remote Jenkins server configurations

Remote Jenkins

Name
Jenkins Server Name

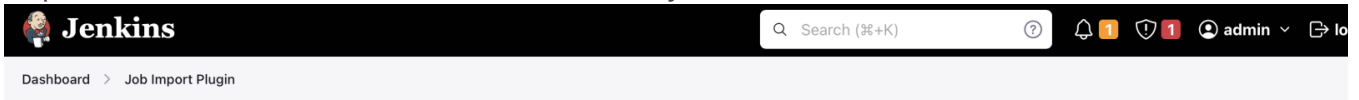
Url
Jenkins Server Url

Credentials

7. Apply and save the remote Jenkins settings head over to the Jenkins dashboard and click on the new option you can see called "Job Import Plugin"

The screenshot shows the Jenkins dashboard interface. At the top, there is a navigation bar with the Jenkins logo, a search bar, and user information (admin). Below the navigation bar, the main content area is divided into a left sidebar and a main panel. The sidebar contains a list of navigation items: '+ New Item', 'People', 'Build History', 'Manage Jenkins', 'My Views', and 'Job Import Plugin'. The 'Job Import Plugin' item is highlighted with a blue background. Below the sidebar, there are two expandable sections: 'Build Queue' (showing 'No builds in the queue.') and 'Build Executor Status' (showing two executors in 'Idle' state). The main panel displays a 'Welcome to Jenkins!' message and several action buttons: 'Create a job', 'Set up a distributed build', 'Set up an agent', 'Configure a cloud', and 'Learn more about distributed builds'.

8. Select your server from the drop-down and click on Search into folders so you don't have to put it in the remote folder. Click on the Query button.



Job Import Plugin

The [Job Import Plugin](#) lets you import jobs from another Jenkins instance.

Remote Jenkins Instance Selection

Jenkins Server

Source Server

Remote folder

Search into folders

Query!

9. Now you will be able to see all the pipelines available on your source server. You can select selective pipelines if you want to. Select the needed pipelines and hit the Import button

Job Import Plugin

The [Job Import Plugin](#) lets you import jobs from another Jenkins instance.

Remote Jenkins Job Selection

Copy to folder

Install required plugins

Override existing jobs

Import?	Disable?	Name	Description
---------	----------	------	-------------

<input checked="" type="checkbox"/>	<input type="checkbox"/>	first-pipeline	
-------------------------------------	--------------------------	----------------	--

<input checked="" type="checkbox"/>	<input type="checkbox"/>	second-pipeline	
-------------------------------------	--------------------------	-----------------	--

Import!

Cancel

10. Woohoo 🎉, You have successfully imported the pipelines from your source server.

4?? Testing the Migration

1. You have successfully migrated to Elestio, now it's time for testing if your application is running as you intended

- Head over to the Jenkins dashboard and see if all of your pipelines have been imported correctly. Additionally, try running the pipelines.

The screenshot shows the Jenkins dashboard interface. On the left, there is a sidebar with navigation options: '+ New Item', 'People', 'Build History', 'Manage Jenkins', and 'My Views'. Below these are sections for 'Build Queue' (showing 'No builds in the queue.') and 'Build Executor Status' (showing '1 Idle' and '2 Idle'). The main content area displays a table of pipelines with columns for 'S', 'W', 'Name', 'Last Success', 'Last Failure', and 'Last Duration'. Two pipelines are listed: 'first-pipeline' and 'second-pipeline'. The 'first-pipeline' has a last success of '1 min 15 sec #1' and a last duration of '3.1 sec'. The 'second-pipeline' has a last success of '32 sec #1' and a last duration of '0.53 sec'. At the bottom, there are filters for 'Icon: S M L' and several Atom feed options.

S	W	Name ↓	Last Success	Last Failure	Last Duration
✓	☀	first-pipeline	1 min 15 sec #1	N/A	3.1 sec
✓	☀	second-pipeline	32 sec #1	N/A	0.53 sec

5?? Need additional help?

Stuck somewhere? We are here to help you, go ahead and create a [support ticket](#) and we will get back to you in no time.

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