

- Update of the current jenkins plugins.
- **Save backup of the current state of Jenkins manager volume (Save in s3 long term after change)**
- Plan outage windows to pose the job as the update take place.

Steps Followed

1. Provisioned Jenkins using terraform cloud
2. Go to manage plugins



Global Tool Configuration
Configure tools, their locations and automatic installers.



Manage Plugins
Add, remove, disable or enable plugins that can extend the functionality of Jenkins.

3. Install periodic backup plugin
4. Go back to manage jenkins and scroll all the way down and look for periodic backup

Uncategorized



Periodic Backup Manager
Periodically backup your Jenkins data and save the day.



ThinBackup
Backup your global and job specific configuration.

5. Create S3 bucket on your AWS console
6. Configure periodic backup manager

Root Directory

/var/lib/jenkins

Temporary Directory ?

/var/lib/jenkins/backups

Backup schedule (cron) ?

H/15 * * * *

Validate cron syntax

Maximum backups in location ?

1

Store no older than (days) ?

Maximum backups in location ?

1

Store no older than (days) ?

1

File Management Strategy

☐ ConfigOnly

☒ FullBackup

?

☐ Follow symbolic links ?

Excludes list ?

Storage Strategy

 TarGzStorage

Delete

Add Storage ▼


Storage Strategy

 TarGzStorage

Delete

Add Storage ▾

Backup Location

 Amazon S3

S3 bucket name ?

demo-1001

Region ?

US East (Ohio)

Amazon Credentials ?

AKIAUXXYDPHZ7G4XCAJ5 (AWS_Credentials) ▾

Add ▾

☒ Enable this location ?

Validate bucket

Region ?

US East (Ohio)

Amazon Credentials ?

AKIAUXXYDPHZ7G4XCAJ5 (AWS_Credentials) ▾

Add ▾

☒ Enable this location ?

Validate bucket

Temporary work directory ?

/tmp/s3backup

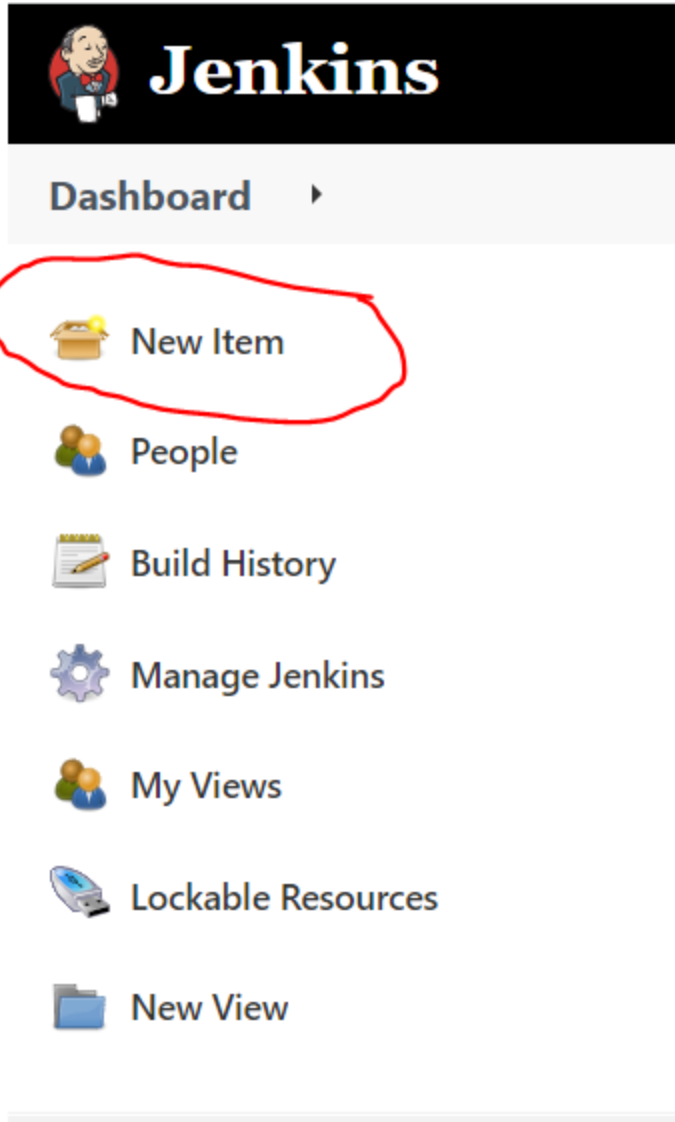
Delete

Add Location ▾

Save

Save


7. Go to Jenkins Dashboard
8. Click on new item




9. Select the name of the pipeline

Enter an item name

» Required field

 **Freestyle project**
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.

 **Pipeline**
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

10. Click pipeline and OK

11. Configure SCM schedule

The screenshot shows the 'Build Triggers' tab in a Jenkins configuration interface. It includes several checkboxes for build triggers: 'Build after other projects are built', 'Build periodically', 'GitHub hook trigger for GITScm polling', and 'Poll SCM' (which is checked). Below the 'Poll SCM' checkbox is a 'Schedule' field containing the cron expression 'H/5 * * * *'. A green 'G' icon is visible in the bottom right of the schedule field. Below the schedule field, a message states: 'Would last have run at Tuesday, April 5, 2022 3:02:44 AM UTC; would next run at Tuesday, April 5, 2022 3:02:44 AM UTC.' There are also checkboxes for 'Ignore post-commit hooks', 'Disable this project', 'Quiet period', and 'Trigger builds remotely (e.g., from scripts)'. At the bottom, there is a section for 'Advanced Project Options' and an 'Advanced...' button.

12. Create a simple pipeline script

You can choose Hello Word sample pipeline

The screenshot shows the 'Pipeline' tab in a Jenkins configuration interface. It features a 'Definition' dropdown menu set to 'Pipeline script'. Below this is a 'Script' section with a text area containing a Groovy pipeline script. The script defines a pipeline with an agent 'any' and a stage named 'Hello' containing a step 'echo' that outputs 'Hello World'. To the right of the script text area is a dropdown menu showing 'Hello World'. At the bottom, there is a checkbox labeled 'Use Groovy Sandbox' which is checked.

13. Build the job – make sure the job successfully builds

Build Now

Configure

Delete Pipeline

Full Stage View

Rename

Pipeline Syntax

Polling Log

Build History

trend ^

Filter builds...

#1 Apr 5, 2022 3:05 AM

Recent Changes

Stage View

Average stage times:
(Average full run time: ~1s)

#1

Apr 04 23:05

No Changes

Hello

97ms


97ms

Permalinks


14.Go to Manage jenkins

15.Scroll all the down and locate the periodic backup manager

Uncategorized



Periodic Backup Manager
Periodically backup your Jenkins data and save the day.



ThinBackup
Backup your global and job specific configuration.

16.Click on periodic backup manager and click backup now!

Dashboard ▶ Periodic Backup Manager

Back to Dashboard

Restore

Backup Now!

Configure

Locations:

S3 bucket: demo-1001

☐ FullBackup created on Tue Apr 05 03:00:07 UTC 2022

Restore selected backup

17. Go to your AWS console and locate the objects in S3. You should see all the backups there

Amazon S3 > Buckets > demo-1001

demo-1001 [Info](#)

Objects

Properties

Permissions

Metrics

Management

Access Points

Objects (2)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Copy S3 URI Copy URL Download Open Delete Actions Create folder Upload

Show versions < 1 >

<input type="checkbox"/>	Name ▲	Type ▼	Last modified ▼	Size ▼	Storage class ▼
<input checked="" type="checkbox"/>	backup_2022_04_05_03_10_07_728.pbobj	pbobj	April 4, 2022, 23:10:29 (UTC-04:00)	776.0 B	Standard
<input checked="" type="checkbox"/>	backup_2022_04_05_03_10_07_728.tar.gz	gz	April 4, 2022, 23:10:26 (UTC-04:00)	275.2 MB	Standard