

AZURE DEVOPS

QUESTIONS:

1. Deploy dot net app in azure dev ops
2. Deploy the pet clinic in azure dev ops
3. In bitbucket:
 - create a project
 - create a repo
 - push existing code
 - create a branch
 - demonstrate pull request
4. Create Jenkins freestyle pipeline and spring pet clinic jar creation
5. Create a pipeline in Jenkins and spring pet clinic jar creation

AZURE DEVOPS – 4TH ASSIGNMENT

1. Deploy dot net app in azure dev ops.

The screenshot shows two browser windows side-by-side, both displaying the Azure DevOps interface for a project named "dot net".

Left Browser Window: Shows the "Files" section of the repository. The "Contents" tab is selected, displaying the following files and their details:

Name	Last change	Commits
WebApp	Sep 16, 2021	a06a401b Add Search Gay...
.gitattributes	Sep 16, 2021	3e267b0b Add .gitignore a...
.gitignore	Sep 16, 2021	3e267b0b Add .gitignore a...
azure-pipelines.yml	7m ago	2298175f Set up CI with A...
WebApp.sln	Sep 16, 2021	95b4154b Add project files...

Right Browser Window: Shows the "Pipelines" section. The "Variables" tab is selected, displaying the "azure-pipelines.yml" file content:

```
trigger:
- main
pool:
  vmImage: 'windows-latest'
variables:
  solution: '**/*.sln'
  buildPlatform: 'Any CPU'
  buildConfiguration: 'Release'
steps:
  - task: NuGetToolInstaller@1
  - task: NuGetCommand@2
    inputs:
      restoreSolution: '$(solution)'
```

The pipeline tasks listed on the right include:

- .NET Core
- Android signing
- Ant
- App Center distribute
- App Center test

The screenshot shows the Azure DevOps interface for a pipeline named "dot net". The left sidebar lists various project sections like Overview, Boards, Repos, Pipelines, Environments, Releases, Library, Task groups, and Project settings. The Pipelines section is currently selected. The main area displays a list of jobs for a specific run, with the first job expanded to show its details. The expanded job view includes a summary table and a detailed log output.

Job	Duration
Job	2m 48s
Initialize job	6s
Checkout do...	10s
NuGetToolInst...	1s
NuGetCo...	1m 40s
VSBuild	45s
PublishBuildAr...	3s
Post-job: Ch...	<1s
Finalize Job	<1s

Job

```
1 Pool: Azure_Pipelines
2 Image: windows-latest
3 Queued: Today at 3:13 AM [manage_parallel_jobs]
4 Agent: Hosted Agent
5 Started: Today at 3:13 AM
6 Duration: 2m 48s
7
8 The agent request is already running or has already completed.
9 ▶ Job preparation parameters
44 ☐ 1 artifact produced
45 Job live console data:
46 Starting: Job
47 Async Command Start: DetectDockerContainer
48 Async Command End: DetectDockerContainer
49 Async Command Start: DetectDockerContainer
50 Async Command End: DetectDockerContainer
51 Finishing: Job
```

The screenshot shows the Azure DevOps interface for creating a new release pipeline. The left sidebar includes 'Overview', 'Boards', 'Repos', 'Pipelines' (selected), 'Environments', 'Releases', 'Library', 'Task groups', and 'Project settings'. The main area has tabs for 'Pipeline' (selected), 'Tasks', 'Variables', 'Retention', and 'Ops'. A 'Build' artifact type is selected. The 'Artifacts' section shows a box for 'Add an artifact' and a note 'Schedule not set'. The 'Stages' section is currently empty. Form fields include 'Project' (dot net), 'Source (build pipeline)' (dot net), 'Default version' (Latest), and 'Source alias' (dotnet). A note at the bottom states: 'The artifacts published by each version will be available for deployment in release pipelines. The latest successful build of dot net published the following artifacts: drop.'

The screenshot shows the 'New release pipeline' configuration page in Azure DevOps. The left sidebar is for the 'dot net' project. The main area has tabs for Pipeline, Tasks (selected), Variables, Retention, Options, and History. Stage 1 is a deployment process. Under 'Run on agent', an 'Azure CLI' task is selected. The task details show an inline script:

```
call az group create --location centralindia --name dotnet-training  
call az appservice plan create --name dotnet-harsha --resource-group dotnet-training --sku S1  
call az webapp create --name dotnet-harsha --resource-group dotnet-training --plan dotnet-harsha
```

The screenshot shows the same 'New release pipeline' configuration page, but the 'New release pipeline' tab is now selected. The task details section is collapsed, and other deployment options like 'Deploy to Slot or App Service Environment' and 'Virtual application' are visible.

dev.azure.com/harshagiduturi/dot%20net/_apps/hub/ms.vss-releaseManagement-web.cd-release-progress?a=release-environment-logs&releaseId=1&envId=1

Azure DevOps harshagiduturi / dot net / Pipelines / Releases / New release pipeline / Release-1

Search

dot net

New release pipeline > Release-1 > Stage 1 ✓ Succeeded

Pipeline Tasks Variables Logs Tests Deploy Cancel Refresh Download all logs Edit ...

Deployment process Succeeded

Run on agent Succeeded

Run on agent

Started: 8/26/2024, 4:00:07 AM ... 3m 57s

Pool: Hosted Windows 2019 with ... Agent: Hosted Agent

- Initialize job succeeded 7s
- Download artifact - _dotnet - drop succeeded 3s
- Azure CLI succeeded 2m 6s
- Azure App Service Deploy: dotnet-harsha succeeded 1m 40s
- Finalize Job succeeded <1s

4:04 AM 8/26/2024

portal.azure.com/#@harshagiduturioutlook.onmicrosoft.com/resource/subscriptions/348ac279-08f0-424f-b35b-80035082612a/resourceGroups/dotn...

Microsoft Azure

Home > dotnet-training > dotnet-harsha

Web App

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Microsoft Defender for Cloud Events (preview) Better Together (preview) Deployment Deployment slots Deployment Center Performance Settings Environment variables Configuration Authentication Application Insights

Browse Stop Swap Restart Delete Refresh Download publish profile Reset publish profile ...

Click here to access Application insights for monitoring and profiling for your app.

Essentials

Resource group (move)	Default domain
dotnet-training	dotnet-harsha.azurewebsites.net

Status: Running

Location (move)	App Service Plan
Central India	dotnet-harsha (S1: 1)

Subscription (move)

Subscription ID	Operating System
Azure Pass - Sponsorship	Windows

Subscription ID: 348ac279-08f0-424f-b35b-80035082612a

Tags (edit) Add tags

Properties Monitoring Logs Capabilities Notifications Recommendations

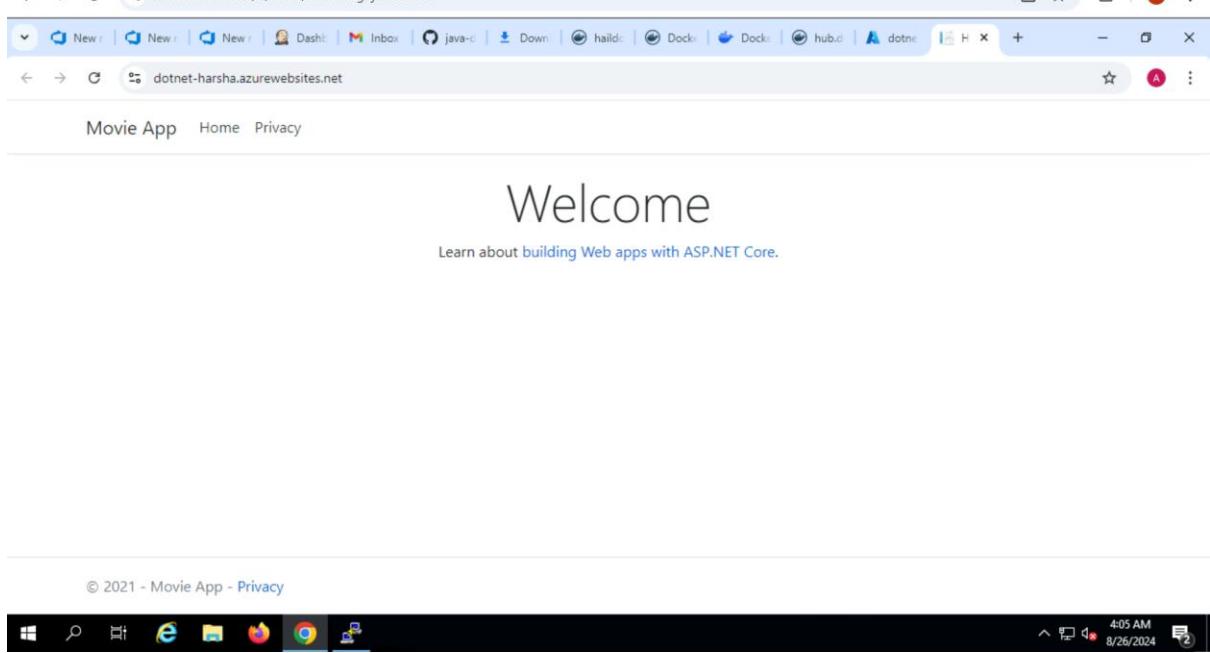
Web app Name: dotnet-harsha Publishing model: Code

Notifications

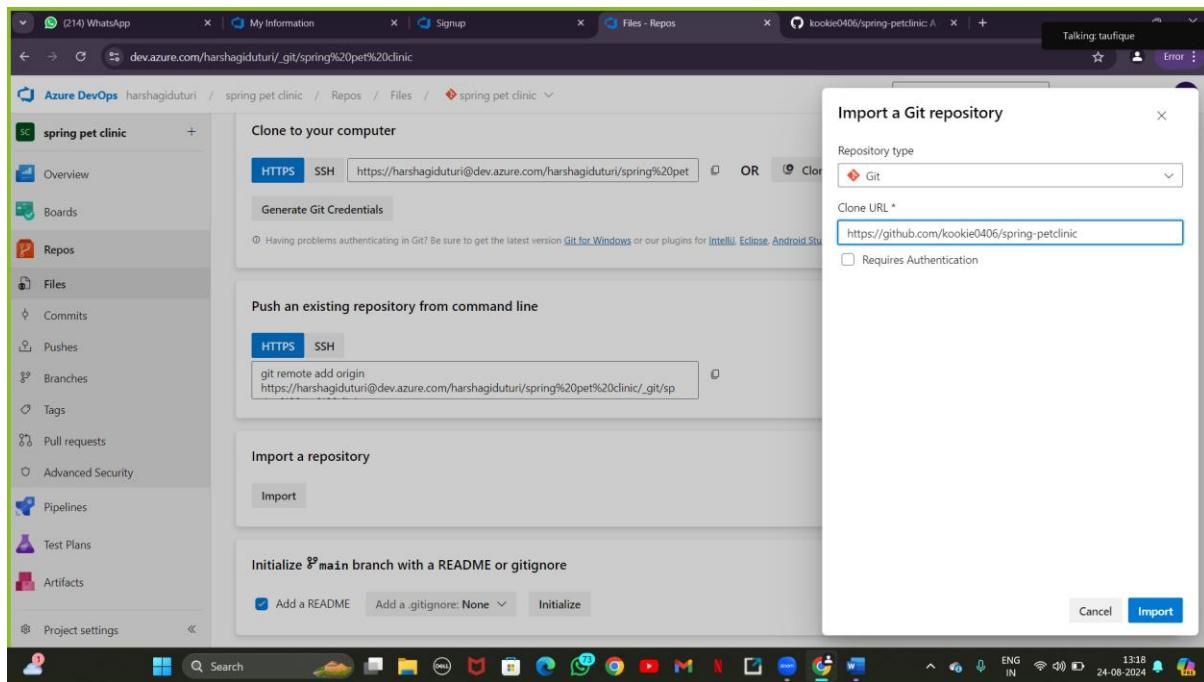
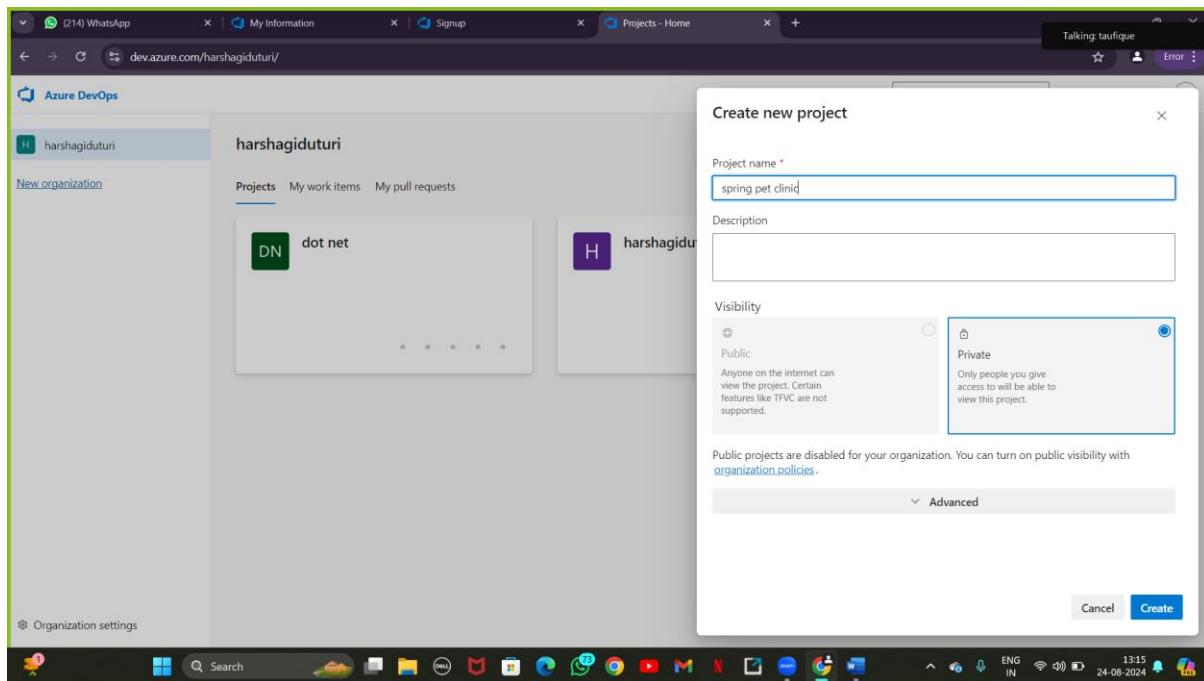
More events in the activity log → Dismiss all

Successfully stopped virtual machine Successfully stopped the virtual machine 'harsha'. 7 minutes ago

4:08 AM 8/26/2024



2. Deploy the pet clinic in azure dev ops



The screenshot shows the Azure DevOps Pipelines interface. On the left, a sidebar lists project navigation options like Overview, Boards, Repos, Pipelines, Environments, Releases, Library, Task groups, Deployment groups, Test Plans, and Artifacts. The Pipelines section is currently selected. In the main content area, the title is "Review your pipeline YAML". Below it is a code editor containing the following YAML configuration:

```
trigger:
- development

pool:
  vmImage: ubuntu-latest

steps:
  - task: Maven@4
    inputs:
      mavenPomFile: 'pom.xml'
      goals: 'install -DskipTests'
      publishJUnitResults: false
      javaHomeOption: 'JDKVersion'
      jdkVersionOption: '1.17'
      mavenVersionOption: 'Default'
      mavenAuthenticateFeed: false
      effectivePomSkip: false
      sonarQubeRunAnalysis: false
  - task: CopyFiles@2
    inputs:
      SourceFolder: '$(Build.SourcesDirectory)/target'
      Contents: '*jar'
```

To the right of the code editor is a "Save and run" dialog box. It contains a "Commit message" field with the placeholder "Set up CI with Azure Pipelines", an "Optional extended description" field with the placeholder "Add an optional description...", and two radio button options: "Commit directly to the main branch" (selected) and "Create a new branch for this commit". At the bottom right of the dialog is a blue "Save and run" button.

The screenshot shows the Azure DevOps Pipelines interface, specifically the "Jobs in run #20240824.1" page. The sidebar on the left is identical to the previous screenshot. The main content area displays a table of jobs with their status and duration. One job, "Job", is expanded to show its detailed log output:

```
Pool: Azure Pipelines
Image: ubuntu-latest
Queued: Today at 13:22 [manage_parallel_jobs]
Agent: Hosted Agent
Started: Today at 13:22
Duration: 3m 0s

The agent request is already running or has already completed.

Job preparation parameters
Job artifact produced
Job live console data:
Starting: Job
Async Command Start: DetectDockerContainer
Async Command End: DetectDockerContainer
Async Command Start: DetectDockerContainer
Async Command End: DetectDockerContainer
Finishing: Job
```

At the bottom right of the log area is a "View raw log" button.

The screenshot shows the Azure DevOps Pipelines interface for a project named 'spring pet clinic'. The pipeline has two stages: Stage 1 and Stage 2. Stage 2 is currently selected. A single task, 'Run on agent', is present in Stage 2. This task is configured to use 'Azure CLI' and 'Azure App Service Deploy: pet-clinic-harsha'. On the right side of the screen, there is a detailed configuration panel for the 'Run on agent' task. It includes fields for 'Display name' (set to 'Run on agent'), 'Agent selection' (set to 'Agent pool: Azure Pipelines'), 'Agent Specification' (set to 'ubuntu-22.04'), and 'Demands' (empty). The 'Execution plan' and 'Parallelism' sections are also visible.

This screenshot shows the same Azure DevOps Pipelines interface as the previous one, but with a different configuration. Stage 2 now contains three tasks: 'Run on agent', 'Deploy Azure App Service', and another 'Azure CLI' task. The second 'Azure CLI' task is currently selected. Its configuration panel shows 'Task version' set to '1.*'. The 'Script Location' is set to 'Inline script', and the inline script content is as follows:

```
az group create --location centralindia --name pet-clinic-training
az appservice plan create --name pet-clinic-harsha --resource-group pet-clinic-training --sku S1
az webapp create --name pet-clinic-harsha --resource-group pet-clinic-training --plan pet-clinic-harsha
```

The screenshot shows the Azure DevOps Pipelines interface for a project named "spring pet clinic". On the left sidebar, under the "Pipelines" section, "Artifacts" is selected. In the main area, the "Pipeline" tab is active, showing the "Artifacts" and "Stages" sections. The "Artifacts" section contains a single item: "Build - _build". The "Stages" section shows "Stage 2" with "1 job, 2 tasks". To the right, a detailed view of the "Artifact" "Build - _build" is displayed. It includes fields for "Project" (set to "spring pet clinic"), "Source (build pipeline)" (set to "spring pet clinic"), "Default version" (set to "Latest"), and "Source alias" (set to "_build"). A note states: "The artifacts published by each version will be available for deployment in release pipelines. The latest successful build of **spring pet clinic** published the following artifacts: **drop**". The status bar at the bottom indicates the date as 24-08-2024.

The screenshot shows the Azure DevOps Pipelines interface for the same project. The "Tasks" tab is now active. Under "Stage 2 Deployment process", there is one task: "Run on agent" (with "Run on agent" selected). Below it is another task: "Azure CLI" (with "Azure CLI" selected). The third task, "Azure App Service Deploy: pet-clinic-harsha", is currently selected and highlighted in blue. This task has several configuration options: "Task version" set to "4.*", "Display name" set to "Azure App Service Deploy: pet-clinic-harsha", "Connection type" set to "Azure Resource Manager", "Azure subscription" set to "Azure Pass - Sponsorship (348ac279-08f0-424f-b35b-80035082612a)", "App Service type" set to "Web App on Windows", "App Service name" set to "pet-clinic-harsha", and "Virtual application" set to an empty field. The status bar at the bottom indicates the date as 24-08-2024.

Screenshot of the Microsoft Azure portal showing the configuration settings for a Web App named "pet-clinic-harsha".

The "General settings" tab is selected. Key configuration details include:

- Stack:** Java
- Java version:** Java 17
- Java minor version:** Java 17 (auto-update)
- Java web server:** Java SE (Embedded Web Server)
- Java web server version:** Java SE (Embedded Web Server) (aut...)

A note at the top states: "Custom Error pages requires a premium App Service Plan." and provides a link to "View and edit your application settings and connection strings from Environment Variables menu".

The browser taskbar at the bottom shows various open tabs and system status.

Screenshot of a web browser displaying the "PetClinic" application running on Azure. The URL is "pet-clinic-harsha.azurewebsites.net".

The page features a header with the Spring logo and links for HOME, FIND OWNERS, VETERINARIANS, and ERROR. Below the header is a "Welcome" section featuring a photo of a brown puppy and a white cat.

The footer contains the "spring" logo and the text "by VMware Tanzu".

The browser taskbar at the bottom shows various open tabs and system status.

3. In Bitbucket:

- create a project
- create a repo
- push existing code
- create a branch
- demonstrate pull request

bit - Microsoft Azure

bit cookie0421 / spring

bit - Microsoft Azure

bit cookie0421 / spring

bit cookie0421 / bitbucket

Welcome to Bitbucket

Congratulations on making it into a repository! Here's where you store files.

Whether you were invited or it's your first one, check out our [getting started guide](#) for a basic introduction to Bitbucket and repositories.

Bring more context to your code using [Compass](#)

Component

Team

root@bit:/home/azureuser/spring

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Personal settings

GENERAL Account settings Email aliases Notifications

ACCESS MANAGEMENT App authorizations App passwords

SECURITY SSH keys Two-step verification Sessions

SSH keys

Use SSH to avoid password prompts when you push code to Bitbucket. Learn how to [generate an SSH key](#).

Key	Added	Last used
key1	3 hours ago	Never
training	2024-08-21	2024-08-22

```
root@bit:/home/azureuser/spring
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 file1.txt
root@bit:/home/azureuser/spring# git push origin main
git@bit@bitbucket.org: Permission denied (publickey).
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
root@bit:/home/azureuser/spring# ssh-keygen -t rsa -b 4096
Generating public/private rsa key pair.
Enter file in which to save the key (/root/.ssh/id_rsa):
/root/.ssh/id_rsa already exists.
Overwrite (y/n)?
root@bit:/home/azureuser/spring#
root@bit:/home/azureuser/spring#
root@bit:/home/azureuser/spring# cat /root/.ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAQADQABAAQDF71h3jqutph66LKHmWjHGSIAi3B1NAEvuYSu3G9Iv0CiAsAz92nV9tAOsAz8/qBrIGw1dPDPbHcDM1/X7NqKjEcWy8aLcL8Fn4F2ZU+T2o9R8rS4JWix2
/pqX4div8EHvQFxQw1BD0+r0PTHy1uMslgvzstlXp/8AV/S2zNoqeJLvrkhrGz8t4eKExif7eCKB8uELydnHKHvcjbmEq6hXHtb7erz06/CXThwHOp9Rwdx1bMBv/xQRc2UumlqThEXYb1xcs94yye
zh1Z66PO4Fe7Qt3K1FdOk+Grx3KcZclnGH0ZsiCg0T21xAKRAwuoFSpnxnffewWdQ3Xn18mGxdfyGx0DRwykZ27S507yUlrt2fbl10QGmSeug2FygOcxPbD469KuDTcARUeCNq8Hq5jwcJmu7Hjp5h3
(zrufl0zCwM691enNgWmgyAkqf/gcmxHmNTzzf3SQuX9vx-N/x4b9m5qevGAU+68Osjo/g/o/t5u614EAnNNmd1VhRleEH1oEyYfzIcgK/p3OCsin7Ly1zkU2tVtpH19DgUOnoFDVVM8Av075zHue/JT08gh
/uk+7pDCUEPw2FD0rOOhnZzWrXxAGjqm4h8VhsFktOeLR/QBgh0DwqPdA7Nw8DF-Q;NEFL1Y9zfSYjS4nnlGkqY1GpDw== root@bit
root@bit:/home/azureuser/spring# git add .
root@bit:/home/azureuser/spring# git commit -m "first file commit"
[master 4635c5..784eb5] first file commit
 1 file changed, 0 insertions(+), 0 deletions(-)
nothing to commit, working tree clean
root@bit:/home/azureuser/spring# git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 2 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 307 bytes | 307.00 KiB/s, done.
total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To bitbucket.org:kookie0421/spring.git
 4635c5..784eb5 main -> main
root@bit:/home/azureuser/spring#
```

bit - Microsoft Azure

kookie0421 / spring

Download history

Branches · kookie0406/jp

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bitbucket.org/kookie0421/spring/src/main/

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kookie0421 / bitbucket spring

Welcome to Bitbucket

Congratulations on making it into a repository! Here's where you store files.

Whether you were invited or it's your first one, check out our [getting started guide](#) for a basic introduction to Bitbucket and repositories.

Invite Clone ...

main Files Filter files

Name Size Last commit Message

README... 2.56 KB 18 hours ago Initial commit

file1.txt 0 B 6 minutes ago first file commit

Bring more context to your code using Compass

Component Team

427 AM 8/27/2024

```
6hZ16p04Fe770t3KLfd0dK+GRx3KcZclnGHJ0ZsiqCq0T21xAKRAwU0F5pxnfFewWdbQ3XnI8mGxdfYGx0DRwyzK27S5O7yU1rt2fB1i0QGm9eug2FYgOoxFbD469KuDTcARUeCMq8Hqy5jwcJmu7HJp5h3 .XzrulF0zWm65tIngwVmgvAkxF/gcnxhJNTzzf3SOUs59vx+N/z4b9m5qeVGAU+G80Sjog/o/t5u614EAnNNmd1VhR1eEH1oEyY1zIcGK/p3OCs4n7LylzkU2tVtpH19DgUOnoFDVVMSAv075zHue/JT08gh Vuk+7ppDCUEPwe2FDOrOOhn2zWx&GjmMsh8VhsFkt0eLR/QBgh0DwqPdA7Nw8DF+QjNEFlY9zfSYjS4nnlGkqY1GpDw== root@bit
root@bit:/home/azureuser/spring# git add .
root@bit:/home/azureuser/spring# git commit -m "first file commit"
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)

nothing to commit, working tree clean
root@bit:/home/azureuser/spring# git push origin main
Enumerating Objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 2 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 307 bytes | 307.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To bitbucket.org:kookie0421/spring.git
  46e35c5..784e0b5 main -> main
root@bit:/home/azureuser/spring# git branch dev
root@bit:/home/azureuser/spring# git checkout branch
error: pathspec 'branch' did not match any file(s) known to git
root@bit:/home/azureuser/spring# git branch list
root@bit:/home/azureuser/spring# git branch
  dev
  list
* main
root@bit:/home/azureuser/spring# git push origin main
Everything up-to-date
root@bit:/home/azureuser/spring# git push origin dev
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create pull request for dev:
remote: https://bitbucket.org/kookie0421/spring/pull-requests/new?source=dev&t=1
remote:
To bitbucket.org:kookie0421/spring.git
 * [new branch]      dev -> dev
root@bit:/home/azureuser/spring#
```

remote.trlabs.net#/client/MTM0MgBjAG15c3Fs

bit - Microsoft Azure kooke0421 / spring / Branches Download history Branches · kooke0406/j... Microsoft Azure Sponsor

bitbucket.org/kooke0421/spring/branches/?status=all

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Java spring

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Search branches All branches Branch type

Branch Behind Ahead Updated Pull request Builds Actions

Branch	Behind	Ahead	Updated	Pull request	Builds	Actions
main MAIN DEVELOPMENT	0	0	11 minutes ago	...		
dev	0	0	11 minutes ago	...		

root@bit:/home/azureuser/spring

Please make sure you have the correct access rights
and the repository exists.
root@bit:/home/azureuser/spring# git branch
* dev
 list
 main
root@bit:/home/azureuser/spring# git push origin dev
Everything up-to-date
root@bit:/home/azureuser/spring# git push origin main
Everything up-to-date
root@bit:/home/azureuser/spring# touch second.sh
root@bit:/home/azureuser/spring# ls
README.md file1.txt second.sh secondfile.txt
root@bit:/home/azureuser/spring# git add .
root@bit:/home/azureuser/spring# git commit
Aborting commit due to empty commit message.
root@bit:/home/azureuser/spring# git commit -m "committing"
[dev 648cb79] committing
 Committer: Root <root@bit.lwvq3jf4eqoezm0kes2nev03c.rx.internal.cloudapp.net>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:
 git config --global --edit
After doing this, you may fix the identity used for this commit with:
 git commit --amend --reset-author

```
root@bit:/home/azureuser/spring
README.md file1.txt second.sh secondfile.txt
root@bit:/home/azureuser/spring# git add .
root@bit:/home/azureuser/spring# git commit
Aborting commit due to empty commit message.
root@bit:/home/azureuser/spring# git commit -m "committing"
[dev 648cb79] committing
Committer: root <root@bit.lvvq3jf4eqezm0kesc2nev03c.rx.internal.cloudapp.net>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

git config --global --edit

After doing this, you may fix the identity used for this commit with:

git commit --amend --reset-author

2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 second.sh
create mode 100644 secondfile.txt
root@bit:/home/azureuser/spring# git push origin main
Everything up-to-date
root@bit:/home/azureuser/spring# git push origin dev
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 2 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 309 bytes | 309.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create pull request for dev:
remote: https://bitbucket.org/kookie0421/spring/pull-requests/new?source=dev&t=1
remote:
To bitbucket.org:kookie0421/spring.git
 784e0b5..648cb79 dev -> dev
root@bit:/home/azureuser/spring#
```

The screenshot shows a Microsoft Edge browser window with multiple tabs open. The active tab is a Bitbucket pull request page for a repository named 'spring' under user 'kookie0421'. The URL in the address bar is bitbucket.org/kookie0421/spring/pull-requests/1. The page displays a pull request titled 'committing' from branch 'dev' to 'main'. The status is 'OPEN'. A user named 'SG' has created the pull request 6 seconds ago. There are two files changed and one commit. The pull request has not yet been approved or merged. On the left sidebar, there are links for Source, Commits, Branches, Pull requests (which is currently selected), Pipelines, Deployments, Jira issues, and Security. The system tray at the bottom shows the date as 8/27/2024 and the time as 7:19 AM.

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Welcome to Bitbucket

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Bring more context to your code using Compass

Component Team

7:23 AM 8/27/2024

Source

Commits

Branches

Pull requests

Pipelines

Deployments

Jira issues

Security

README... 2.56 KB 21 hours ago Initial commit

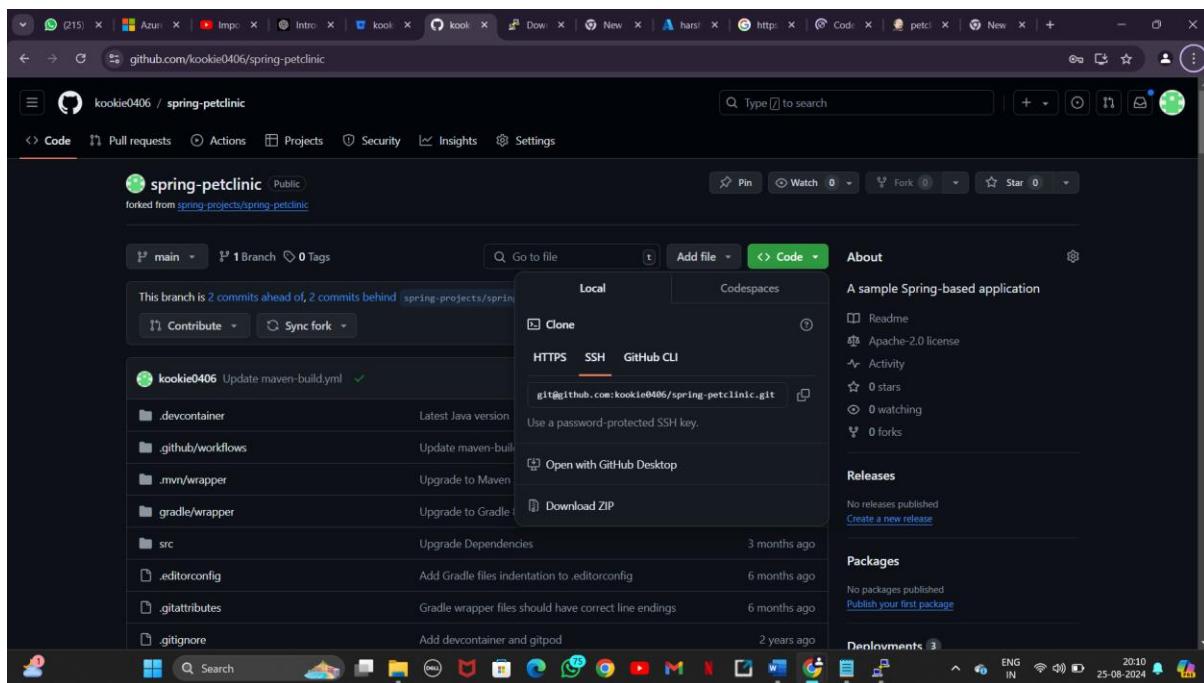
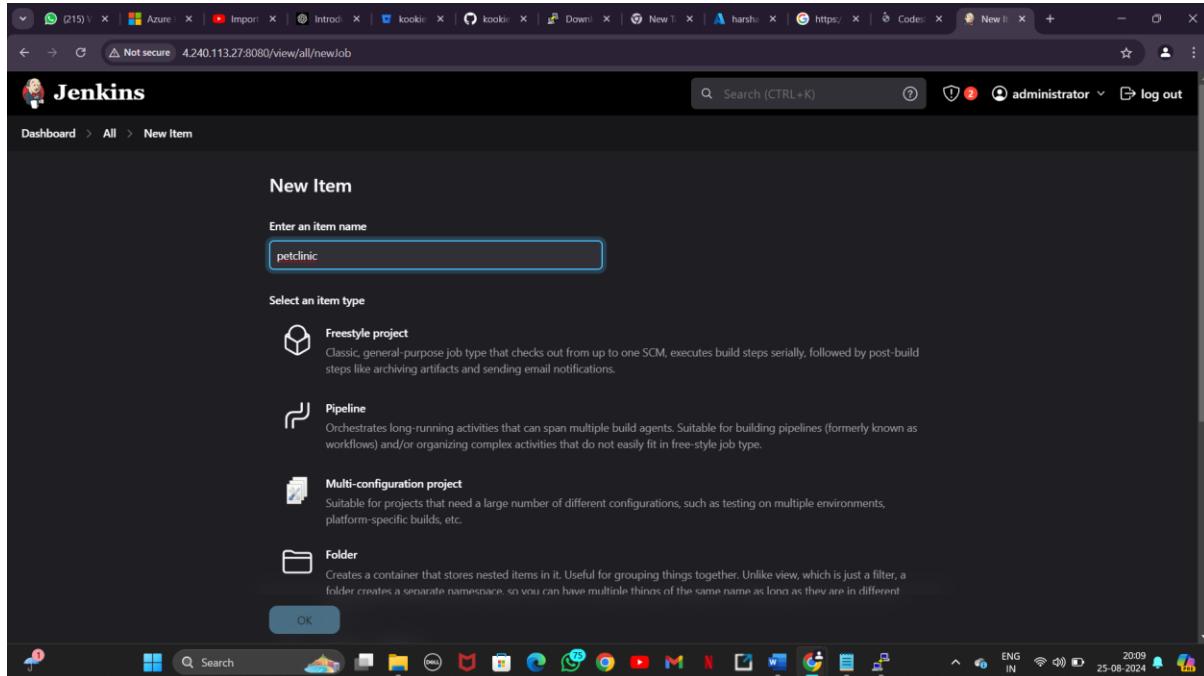
file1.txt 0 B 3 hours ago first file commit

second.... 0 B 3 hours ago committing

secondf.... 0 B 3 hours ago committing

4. Create Jenkins freestyle pipeline

-spring pet clinic jar creation



The screenshot shows the Jenkins configuration interface for the 'petclinic' job. The left sidebar lists 'General', 'Source Code Management', 'Build Triggers', 'Build Environment', 'Build Steps', and 'Post-build Actions'. The 'Source Code Management' section is selected, showing a 'Repository URL' input field containing 'git@github.com:kookie0406/spring-petclinic.git' and a 'Credentials' dropdown set to 'git'. Below these are 'Advanced' and 'Add Repository' buttons. The 'Branches to build' section contains a 'Branch Specifier (blank for 'any')' input field with '*/*main'. At the bottom are 'Save' and 'Apply' buttons.

The screenshot shows the Jenkins configuration interface for the 'petclinic' job. The left sidebar lists 'General', 'Source Code Management', 'Build Triggers', 'Build Environment', 'Build Steps', and 'Post-build Actions'. The 'Build Triggers' section is selected, showing a 'Branch Specifier (blank for 'any')' input field with '*/*main'. Below it are 'Add Branch' and 'Repository browser' dropdowns set to '(Auto)'. The 'Additional Behaviours' section has an 'Add' button. The 'Build Triggers' section contains several checkboxes: 'Trigger builds remotely (e.g., from scripts)', 'Build after other projects are built', 'Build periodically', 'GitHub hook trigger for GITScm polling' (which is checked), and 'Poll SCM'. At the bottom are 'Save' and 'Apply' buttons.

The screenshot shows the Jenkins configuration page for the 'petclinic' job. The left sidebar lists 'General', 'Source Code Management', 'Build Triggers', 'Build Environment', 'Build Steps' (which is selected), and 'Post-build Actions'. The main area is titled 'Configure' and contains two sections: 'Invoke top-level Maven targets' and 'Post-build Actions'.

Invoke top-level Maven targets

- Maven Version: MVN3
- Goals: package
- Advanced dropdown
- Add build step button

Post-build Actions

- Archive the artifacts
- Files to archive: target/*.jar
- Save and Apply buttons

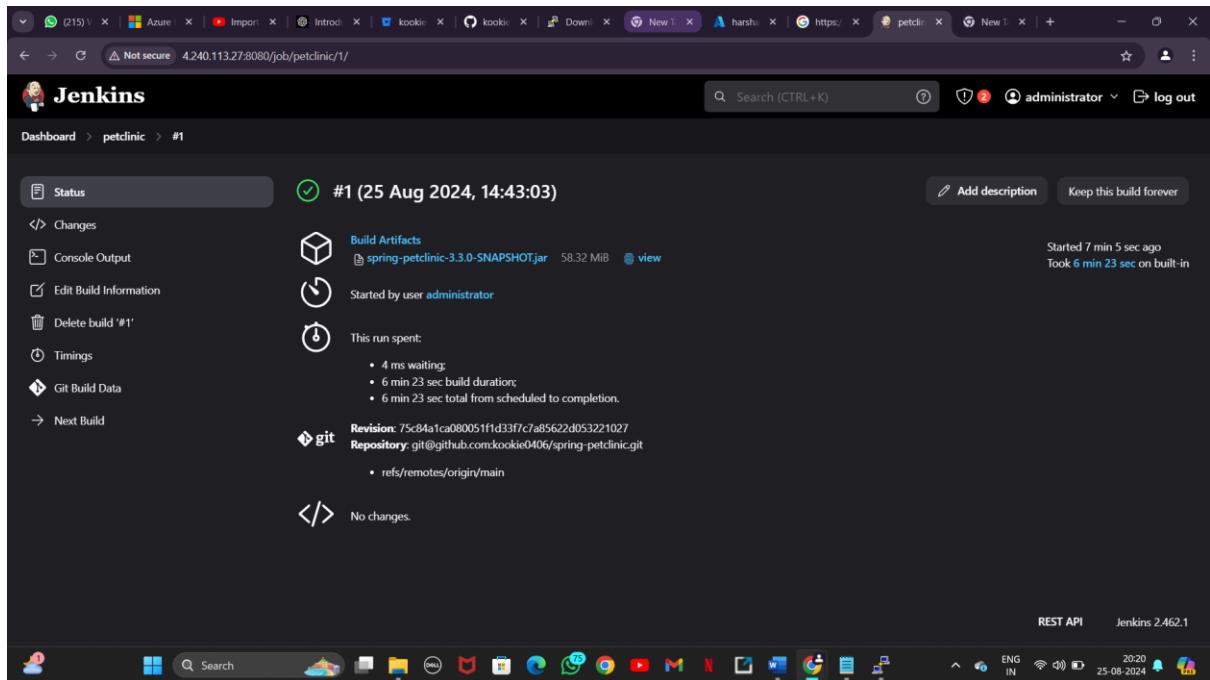
At the bottom, the taskbar shows various icons and the system status: ENG IN, 20:32, 25-08-2024.

The screenshot shows the Jenkins console output for build #1. The output displays the Maven build process, including progress messages, dependency download, and final success.

```
Progress (1): 6.7/6.8 MB
Progress (1): 6.8/6.8 MB
Progress (1): 6.8/6.8 MB
Progress (1): 6.8 MB

Downloaded from central: https://repo.maven.apache.org/maven2/com/github/luben/zstd-jni/1.5.5-11/zstd-jni-1.5.5-11.jar (6.8 MB at 24 MB/s)
[INFO] Building jar: /var/lib/jenkins/workspace/petclinic/target/spring-petclinic-3.3.0-SNAPSHOT.jar
[INFO]
[INFO] --- spring-boot:3.3.0:repackage (repackage) @ spring-petclinic ---
[INFO] Replacing main artifact /var/lib/jenkins/workspace/petclinic/target/spring-petclinic-3.3.0-SNAPSHOT.jar with repackaged archive, adding nested dependencies in BOOT-INF.
[INFO] The original artifact has been renamed to /var/lib/jenkins/workspace/petclinic/target/spring-petclinic-3.3.0-SNAPSHOT.jar.original
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 06:15 min
[INFO] Finished at: 2024-08-25T14:49:27Z
[INFO] -----
Archiving artifacts
Finished: SUCCESS
```

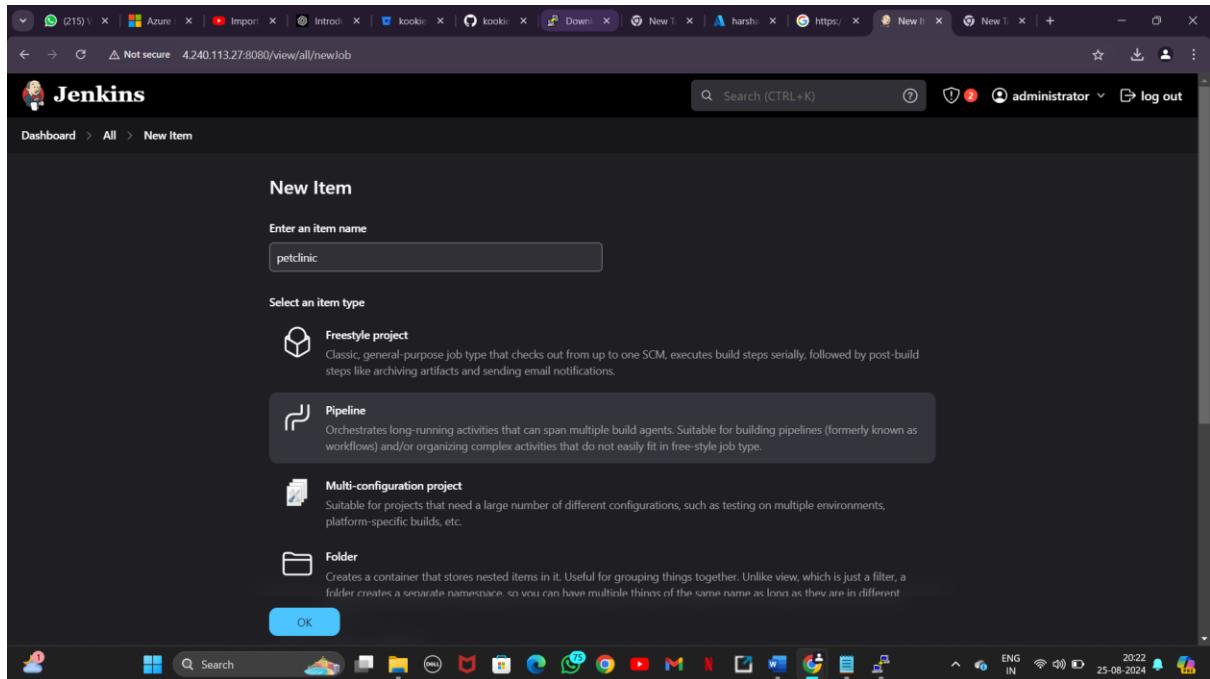
At the bottom, the taskbar shows various icons and the system status: REST API, Jenkins 2.462.1, ENG IN, 20:19, 25-08-2024.



The screenshot shows the Jenkins interface for a build named '#1' of a project called 'petclinic'. The build was triggered on 25 Aug 2024 at 14:43:03. It took 6 min 23 sec on built-in. The build status is green. Artifacts include 'spring-petclinic-3.3.0-SNAPSHOT.jar' (58.32 MiB). The build was started by user 'administrator'. Timings show 4 ms waiting, 6 min 23 sec build duration, and 6 min 23 sec total from scheduled to completion. The git revision is 75c8a1ca080051fd33f7c7a85622d053221027, and the repository is git@github.com:kookie0406/spring-petclinic.git. There are no changes. The REST API version is Jenkins 2.462.1.

5. Create a pipeline in Jenkins

-spring pet clinic jar creation



The screenshot shows the Jenkins 'New Item' creation page. The item name is 'petclinic'. The item type is selected as 'Pipeline'. Other options shown are 'Freestyle project' (classic general-purpose job type) and 'Multi-configuration project' (suitable for testing on multiple environments, platform-specific builds, etc.). A 'Folder' option is also listed. An 'OK' button is visible at the bottom.

The screenshot shows the Jenkins Pipeline configuration screen for a job named "petclinic-pull". The "Pipeline" tab is selected under the "Definition" dropdown. The pipeline script is defined as follows:

```
1 pipeline{
2     agent any
3     tools {
4         maven "MVN3"
5     }
6 }
7
8 stages {
9     stage('pull') {
10        steps {
11            git branch: 'main', credentialsId: 'github', url: 'git@github.com:kookie0406/spring-petclinic.git'
12        }
13    }
14
15    stage("build") {
16        steps {
17    }
```

Below the script editor, there is a "Use Groovy Sandbox" checkbox, which is checked. At the bottom, there are "Save" and "Apply" buttons.

The screenshot shows the Jenkins Pipeline configuration screen for a job named "petclinic-pull". The "Pipeline" tab is selected under the "Definition" dropdown. The pipeline script is defined as follows:

```
18     sh "mvn package"
19 }
20
21
22 stage('publish') {
23     steps {
24         junit 'target/surefire-reports/*.xml'
25         archiveArtifacts 'target/*.jar'
26     }
27 }
28
29 stage('print') {
30     steps {
31         sh "echo hello"
32     }
33 }
34 }
```

Below the script editor, there is a "Use Groovy Sandbox" checkbox, which is checked. At the bottom, there are "Save" and "Apply" buttons. In the bottom right corner of the window, it says "REST API" and "Jenkins 2.462.1".

The screenshot shows a browser window with the URL 4.240.113.27:8080/job/petclinic-pull/2/console. The page displays the Jenkins pipeline log for build #2. The log output is as follows:

```
[Pipeline] archiveArtifacts
[Pipeline] Archiving artifacts
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] {
[Pipeline] { (print)
[Pipeline] tool
[Pipeline] envVarsForTool
[Pipeline] withEnv
[Pipeline] {
[Pipeline] sh
+ echo hello
hello
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

At the bottom right of the browser window, it says "REST API" and "Jenkins 2.462.1". The system tray at the bottom shows various icons and the date/time as 25-08-2024.

The screenshot shows a browser window with the URL 4.240.113.27:8080/job/petclinic-pull/2/. The page displays the Jenkins build summary for build #2, which was started 1 min 33 sec ago and took 1 min 4 sec. The summary includes:

- Status:** Build #2 (25 Aug 2024, 14:59:05) - Success
- Build Artifacts:** spring-petclinic-3.3.0-SNAPSHOT.jar (58.32 MB)
- Started by:** user administrator
- This run spent:**
 - 16 ms waiting;
 - 1 min 4 sec build duration;
 - 1 min 4 sec total from scheduled to completion.
- Revision:** 75c84a1ca080051f1d33f7c7a85622d053221027
- Repository:** git@github.com:kookie0406/spring-petclinic.git
- Test Result:** (no failures)

On the left, there is a sidebar with links: Status, Changes, Console Output, Edit Build Information, Delete build '#2', Timings, Git Build Data, Test Result, Pipeline Overview, Pipeline Console, Restart from Stage, Replay, Pipeline Steps, Workspaces, and Pipelines.

At the bottom right of the browser window, it says "Keep this build forever". The system tray at the bottom shows various icons and the date/time as 25-08-2024.