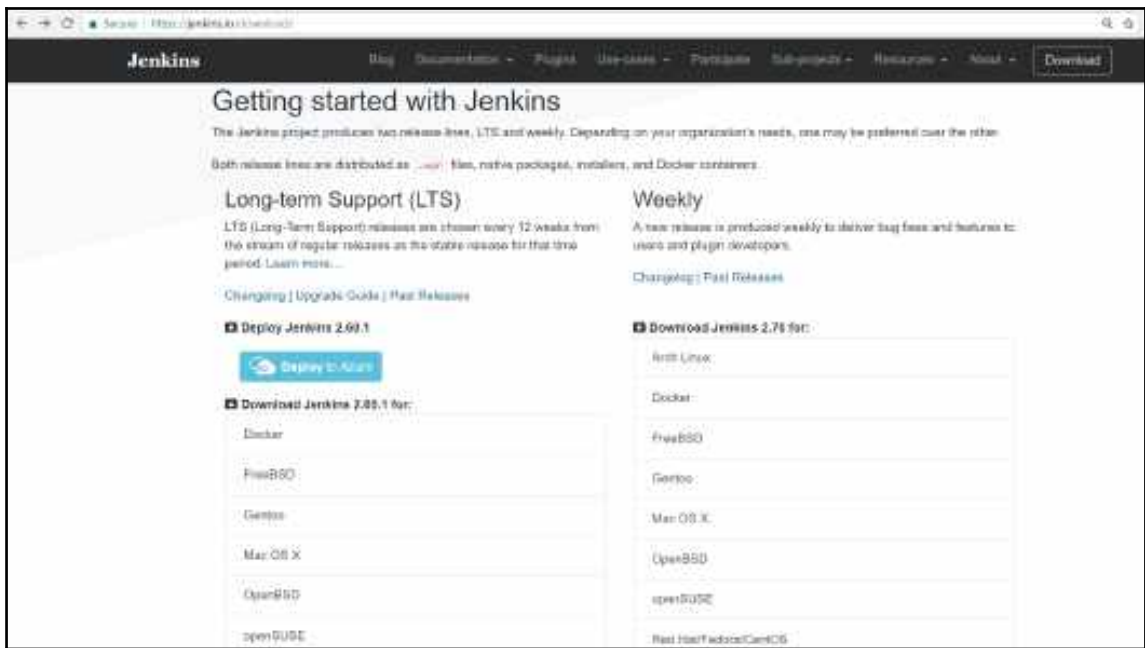


Chapter 01: Getting Started with Jenkins



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Jenkins

Microsoft

Overview Plans

Microsoft published Jenkins Master on a Linux (Ubuntu) VM

We are excited to bring the next phase of our support for Jenkins on Microsoft Azure with the launch of a secure, stable and production ready version of Jenkins.

Note: For instructions on connecting to this Jenkins instance once deployed, please browse to the URL or public IP of the instance. The URL is the Domain name label you enter in Settings and the suffix shows below this field.

This solution template will install the latest stable Jenkins version on a Linux Ubuntu VM (T1) VM along with tools and plugins configured to work with Azure. This includes -

- git for source control
- Azure Credentials plugin for connecting securely
- Azure VM Agents plugin for elastic build, test and continuous integration
- Azure Storage plugin for storing artifacts
- Azure CLI to deploy apps using scripts

For a detailed walkthrough of the steps this solution automates for you, please visit our [Blog](#).



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Create this app in Azure

Jenkins
By Microsoft

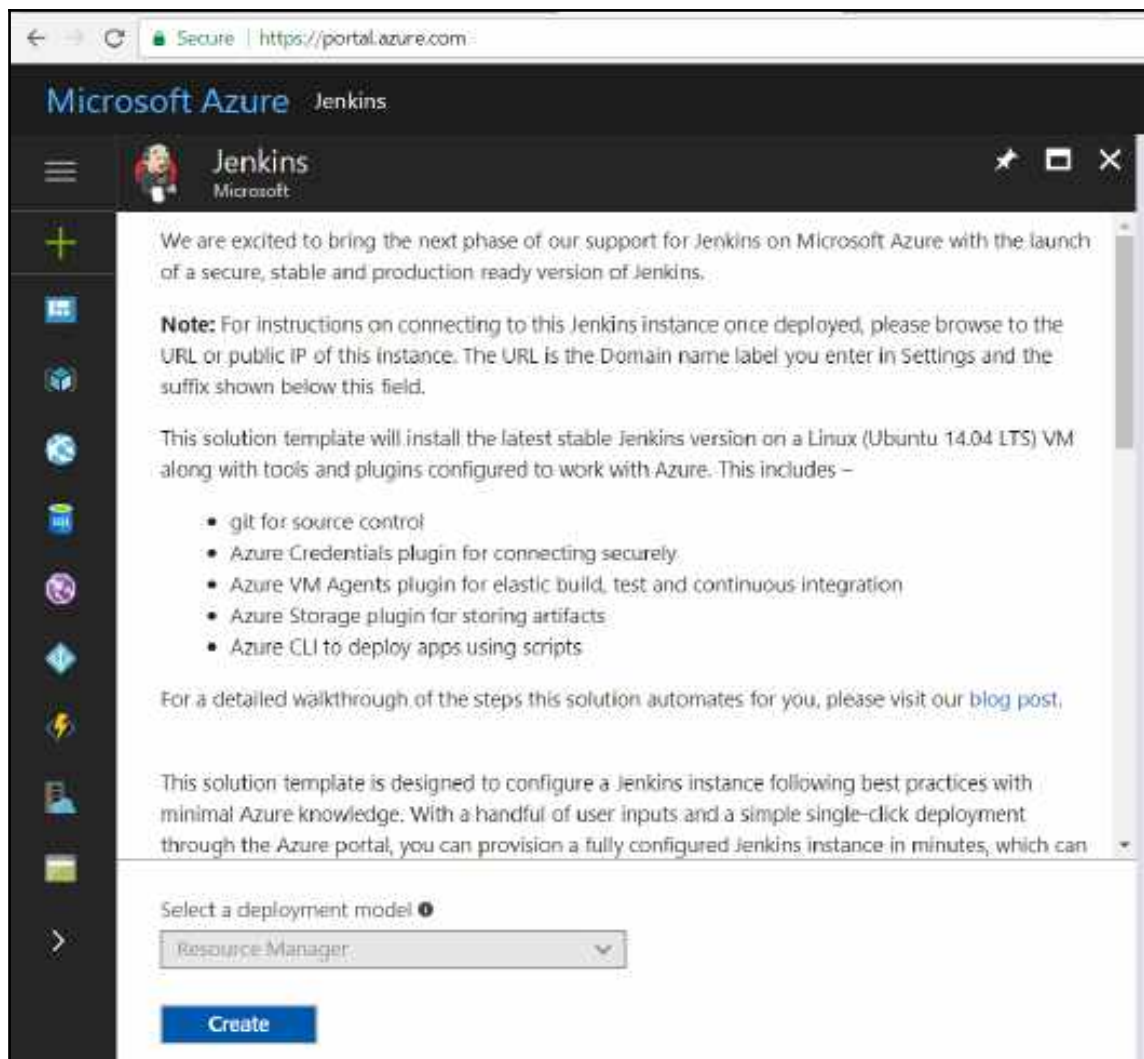
Software plan
Jenkins

Pricing: This solution template deploys software components and Azure infrastructure components. The price is the cost of those components.

Details: Microsoft published Jenkins Master on a Linux (Ubuntu) VM

Continue

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Secure | <https://portal.azure.com/#create/azure-oss.jenkinsjenkins>

Microsoft Azure Jenkins > Create Jenkins > Basics

1 Basics
Configure basic settings >

2 Settings
Configure additional options >

3 Summary
Jenkins >

4 Buy >

Name
Jenkins

VM disk type ⓘ
SSD

User name
mitesh51 ✓

Authentication type
Password SSH public key

Password
***** ✓

Confirm password
***** ✓

Jenkins release type
LTS

Subscription

OK

Microsoft Azure Jenkins > Create Jenkins > Basics

1 Basics
Configure basic settings >

2 Settings
Configure additional options >

3 Summary
Jenkins >

4 Buy >

* Authentication type

Password SSH public key

* Password

***** ✓

* Confirm password

***** ✓

Jenkins release type

LTS ▼

Subscription

Visual Studio Enterprise with MSDN ▼

* Resource group ⓘ

☒ Create new ☐ Use existing

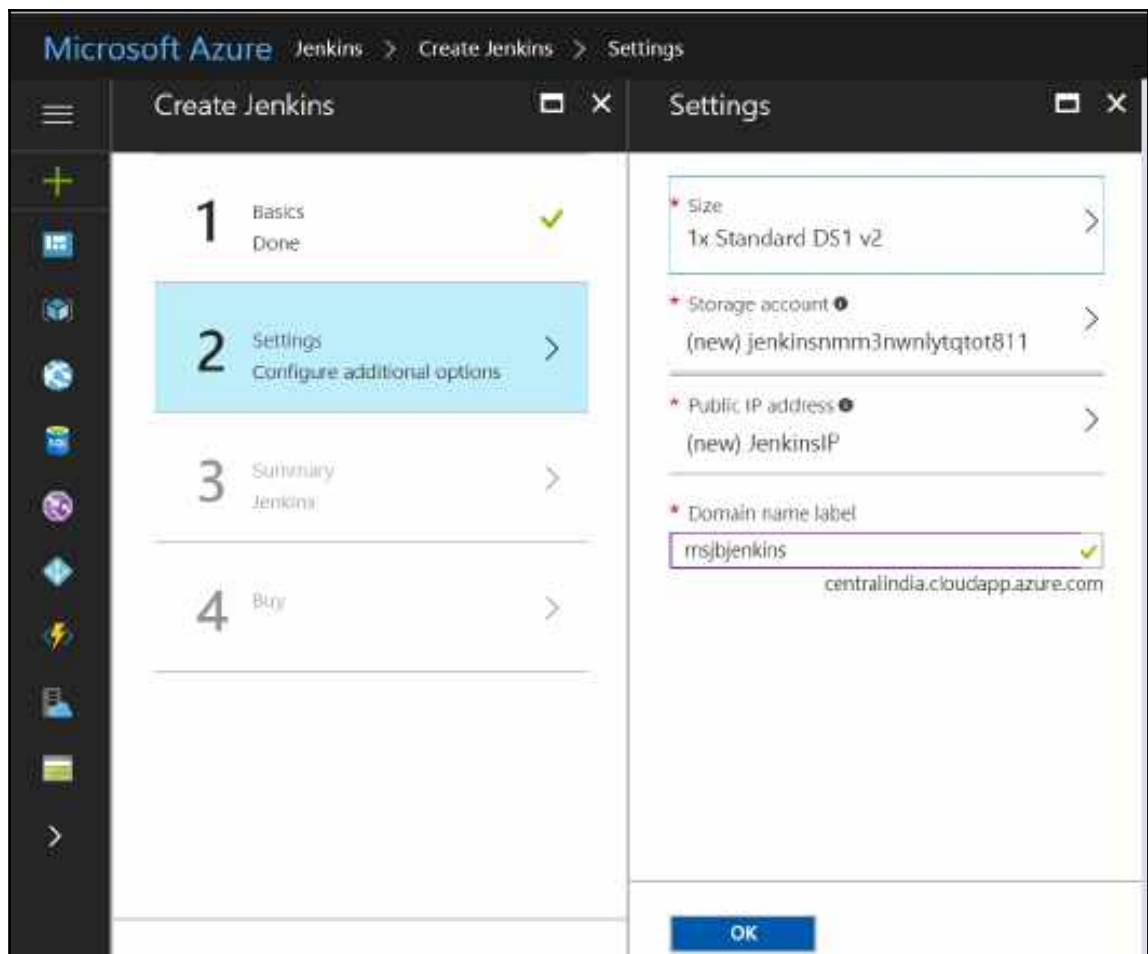
JenkinsCookBook

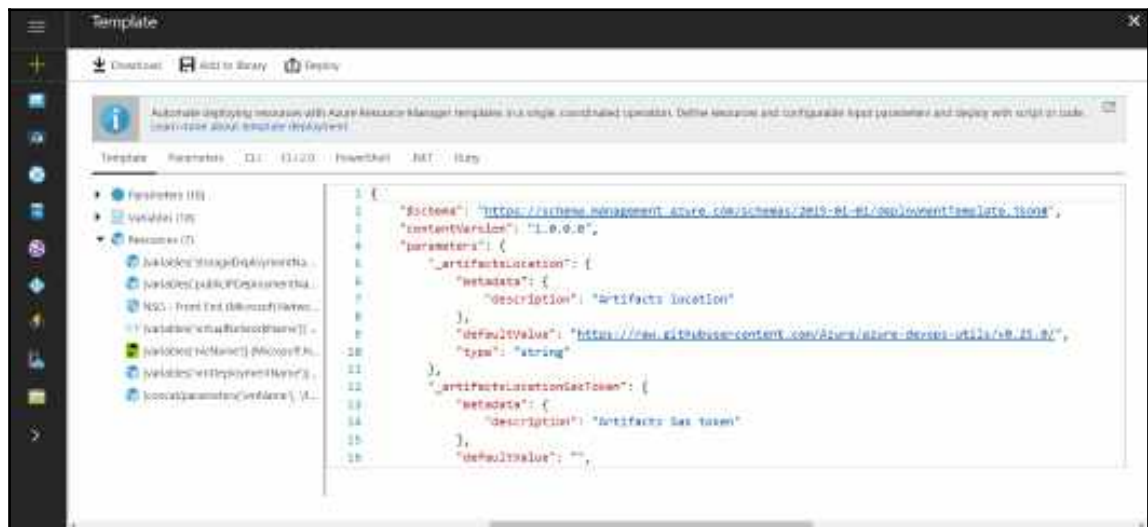
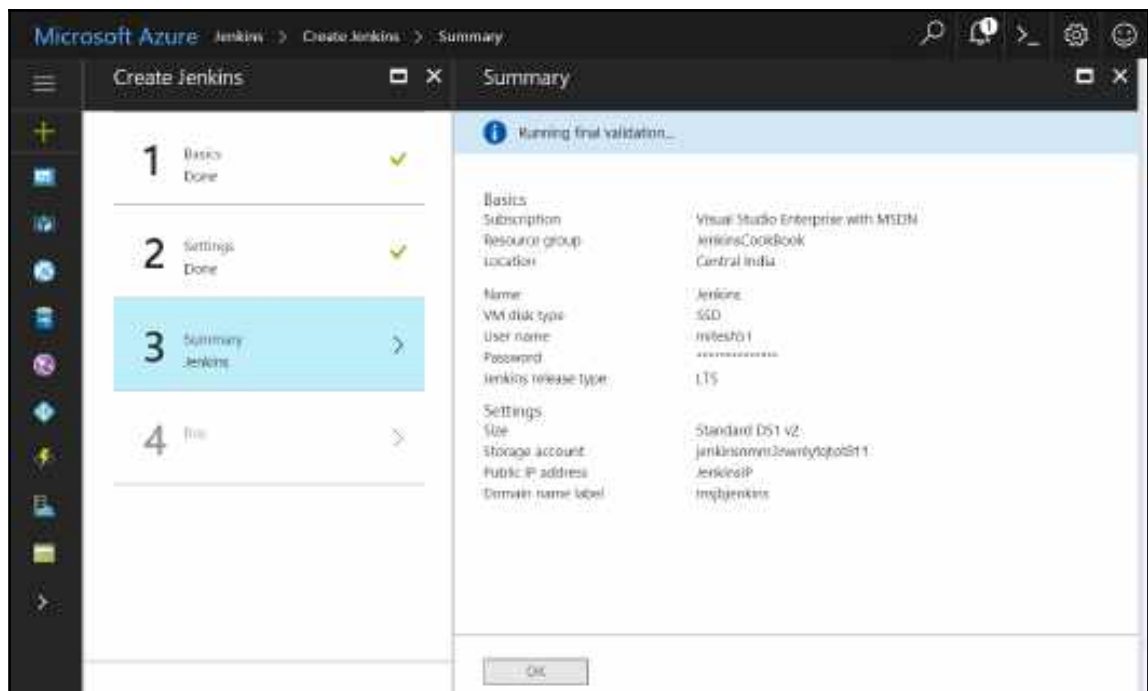
Location

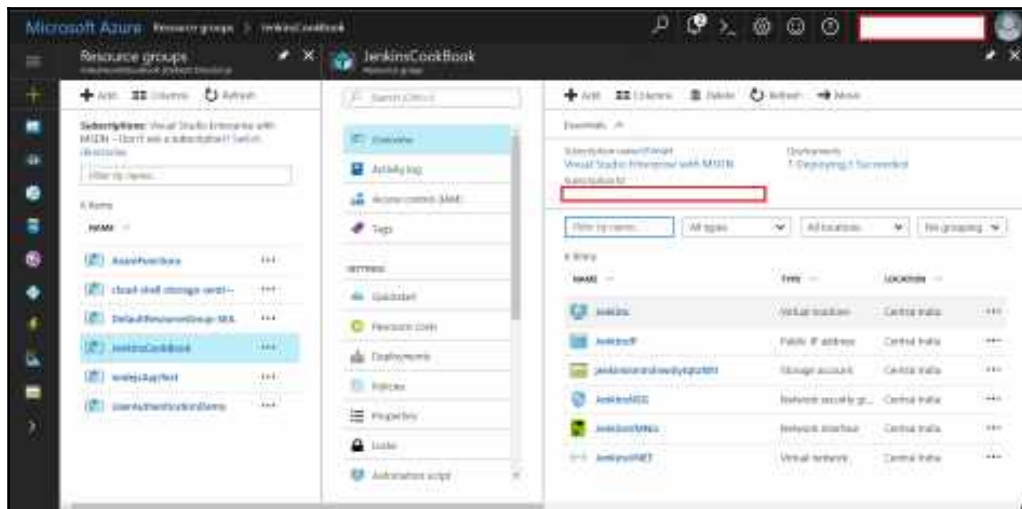
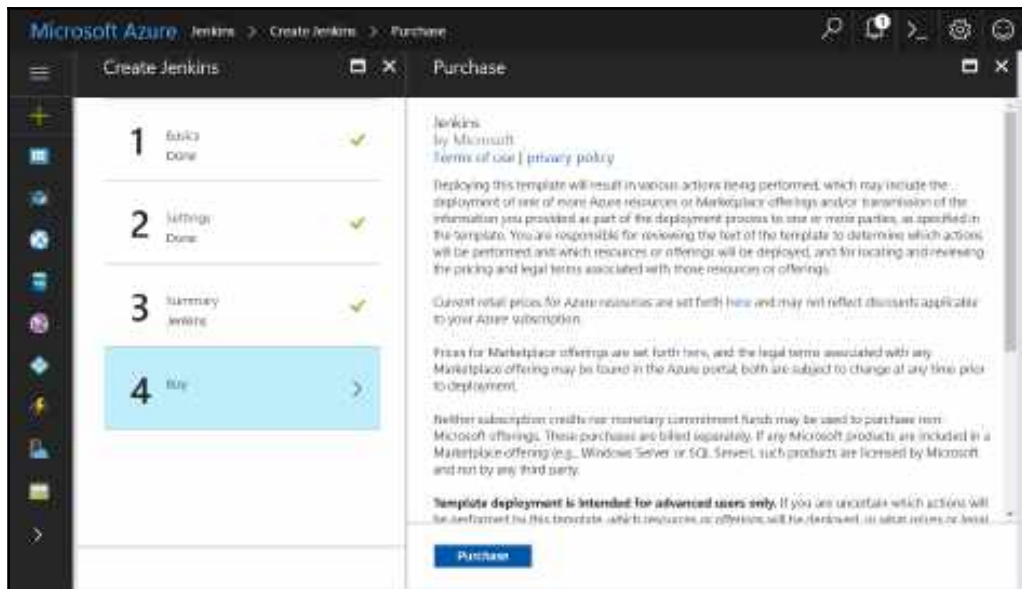
Central India ▼

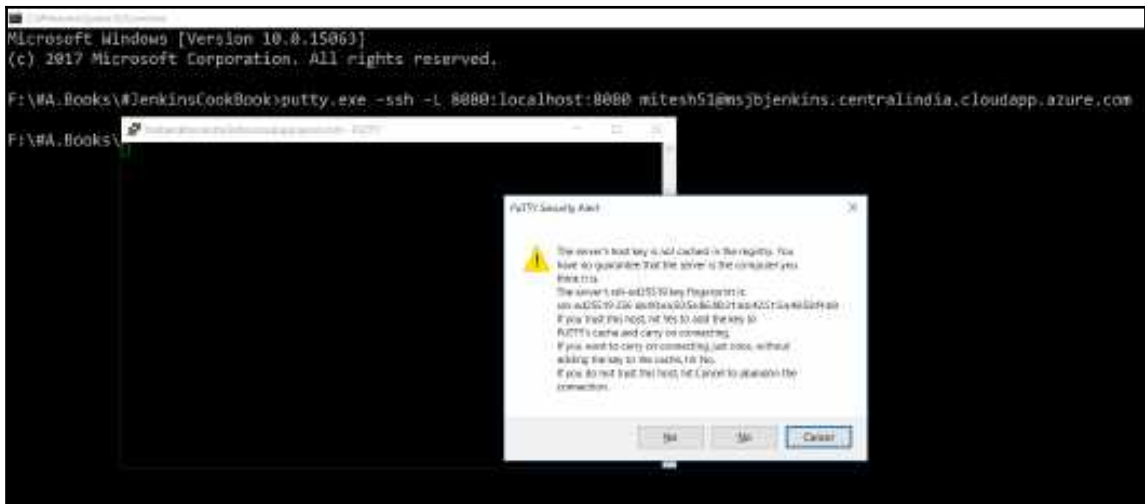
OK

[5]







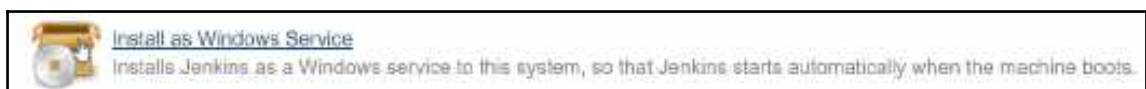
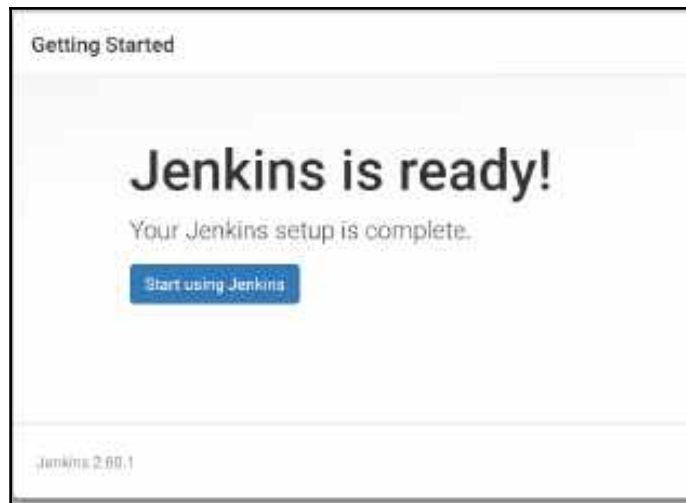




```
mitesh51@Jenkins:~$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword
e0a0e477a2234e7bb45061173512eeff
mitesh51@Jenkins:~$
```



This screenshot shows the 'Getting Started' window for Jenkins 2.60.1, specifically the 'Create First Admin User' section. It contains a form with the following fields and values: 'Username' is 'mitesh51', 'Password' is masked with '*****', 'Confirm password' is also masked with '*****', 'Full name' is 'Mitesh P.', and 'E-mail address' is an empty field highlighted with a red border. At the bottom, there is a 'Continue as admin' link and a 'Save and Finish' button. The bottom left corner shows 'Jenkins 2.60.1'.





Install as Windows Service

Installing Jenkins as a Windows service allows you to start Jenkins as soon as the machine starts, and regardless of who is interactively using Jenkins.

Installation Directory

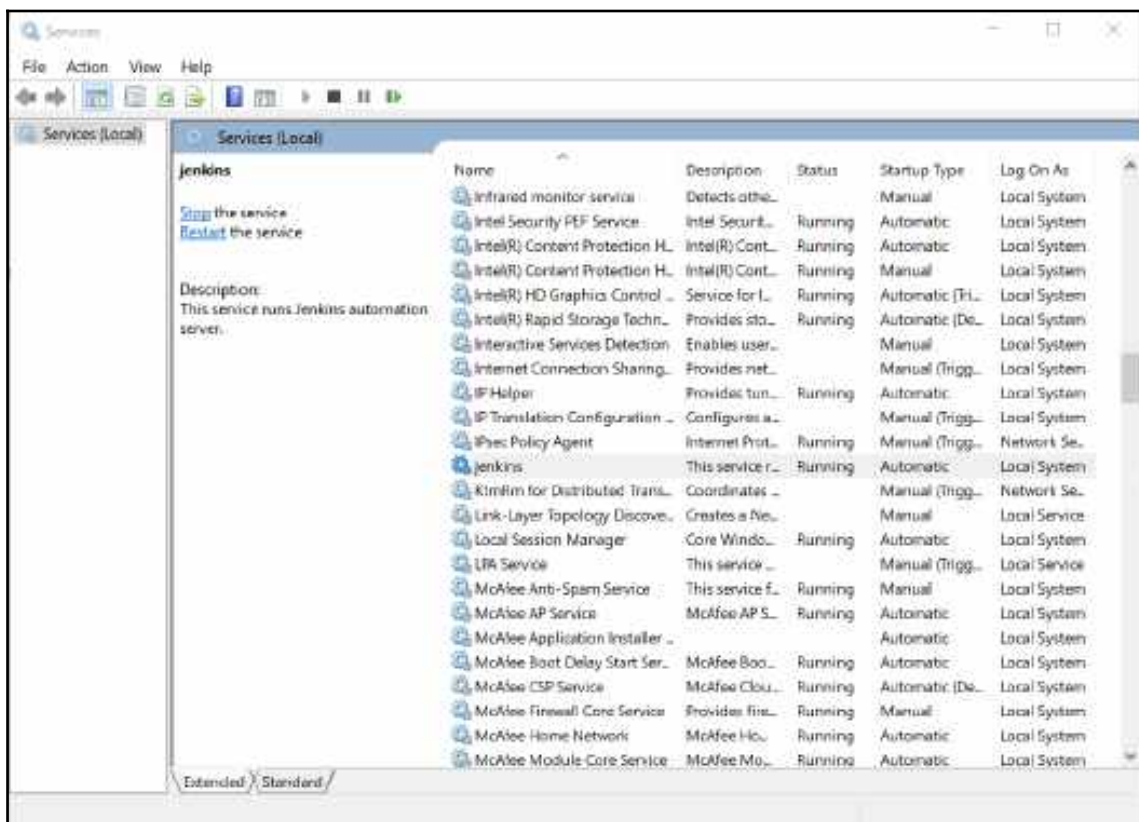
Install



Installation Complete

Installation is successfully completed. Do you want to stop this Jenkins and start a newly installed Windows service?

Yes



Jenkins

[Wish P](#) | [log out](#)

[Jenkins](#)

[View Item](#)
[People](#)
[Build History](#)
[Manage Jenkins](#)
[My Views](#)
[Credentialed](#)

Build Queue

No builds in the queue.

Build Executor Status

1 idle
3 idle

Manage Jenkins

- [Configure System](#)
Configure global settings and paths.
- [Configure Global Security](#)
Secure Jenkins: define who is allowed to access the system.
- [Configure Credentials](#)
Configure the credential providers and types.
- [Global Tool Configuration](#)
Configure tools, their locations and automatic updates.
- [Recover Configuration from Disk](#)
Discard all the installed data in memory and reload everything from file system. Useful when you modified config files directly on disk.
- [Manage Plugins](#)
Add, remove, update or enable plugins that extend the functionality of Jenkins.
- [System Information](#)
Displays various environmental information to assist trouble-shooting.
- [System Log](#)
System log: captures output from Java, shell, logging output related to Jenkins.
- [Load Statistics](#)
Check your resource utilization and see if you need more computers for your builds.

Jenkins

[Wish P](#) | [log out](#)

[Jenkins](#)

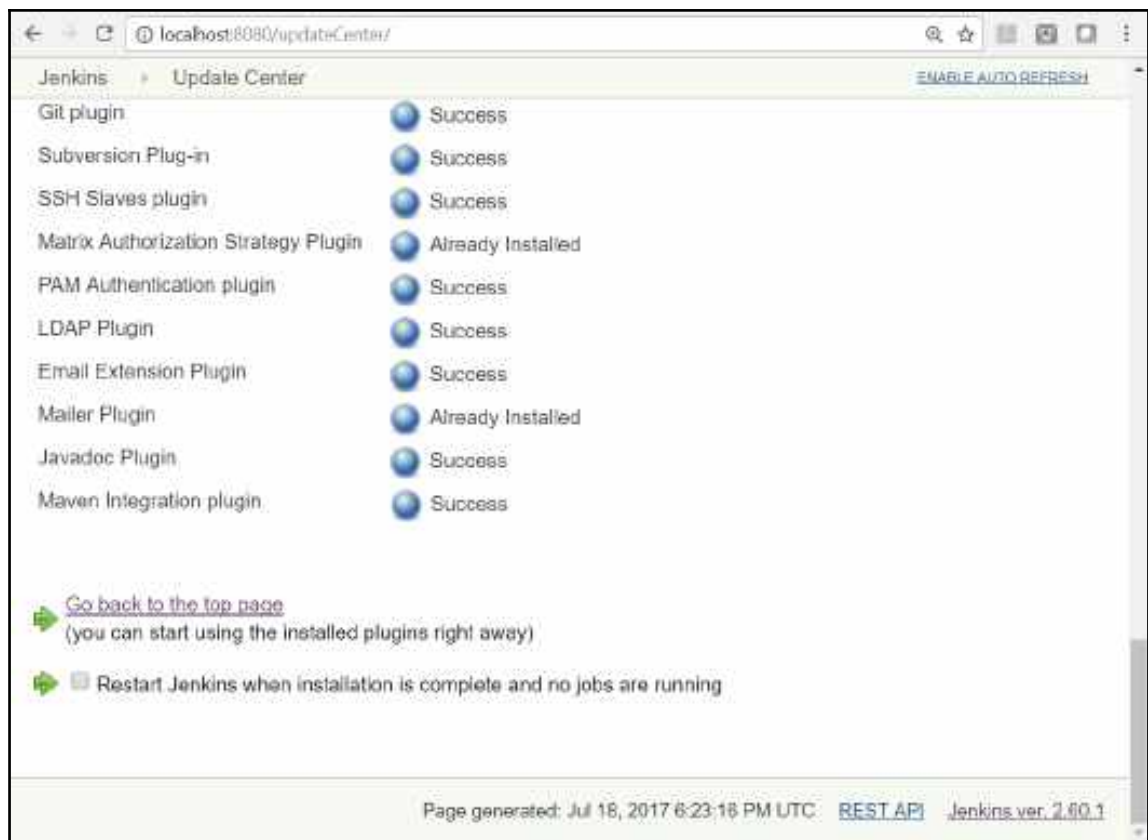
[Back to Dashboard](#)
[Manage Jenkins](#)
[Update Center](#)

[Updates](#)
[Available](#)
[Installed](#)
[Advanced](#)

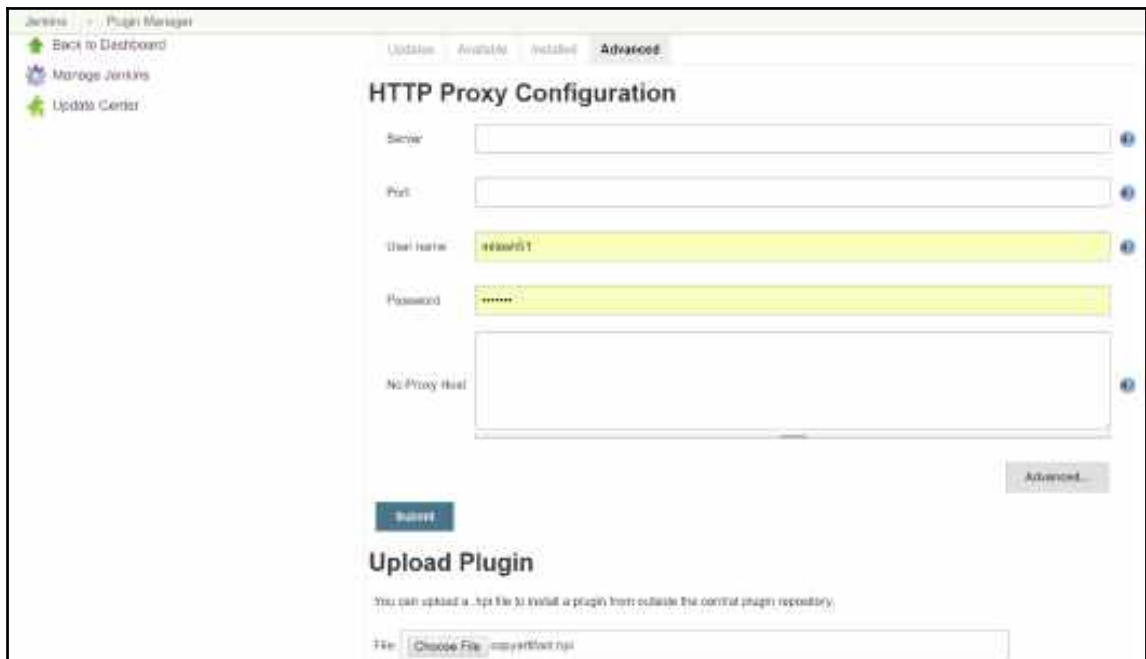
Install	Name	Version
<input checked="" type="checkbox"/>	Maven Integration plugin This plugin provides, for better and for worse, a deep integration of Jenkins and Maven. Automatic triggers between projects depending on SEMVER to automate configuration of various Jenkins pipelines (test, ...).	2.17
<input type="checkbox"/>	Maven compiler plugin Reports to Maven Inverse & back.	1.3
<input type="checkbox"/>	Maven Jenkins Plugin	0.2.0
<input type="checkbox"/>	Pipeline Maven Integration Plugin This plugin provides integration with Pipeline, configures maven environment to use within a pipeline job by setting up tool or just use. The selected maven installation will be configured and appended to the path.	2.8.1

[Install selected \(1 item\)](#)
[Download now and install after install](#)
Update information obtained: 36 min ago
[Check now](#)

Page generated: 31.10.2017 6:22:51 PM UTC RESTART Jenkins on 1.8.0



copy-to-slave/	2017-07-18 18:17	-
copyartifact/	2017-07-18 18:17	-
cors-filter/	2017-07-18 18:17	-
couchdb-statistics/	2017-07-18 18:17	-
countjobs-viewstabbar/	2017-07-18 18:17	-
covcomplot/	2017-07-18 18:17	-
coverity/	2017-07-18 18:17	-
cppcheck/	2017-07-18 18:17	-
cppness/	2017-07-18 18:17	-
cpptest/	2017-07-18 18:17	-
crap4j/	2017-07-18 18:17	-



Jenkins

[Mikael P](#)
[log out](#)

[Jenkins](#) > [Plugin Manager](#)

[Back to Dashboard](#)
[Manage Jenkins](#)
[Upgrade Center](#)

[Overview](#)
[Advanced](#)

HTTP Proxy Configuration

Server

Port

User name

Password

No Proxy Host

[Advanced...](#)

[History](#)

Jenkins

[Mikael P](#)
[log out](#)

[Jenkins](#) > [configuration](#)

[New Item](#)
[People](#)
[Build History](#)
[Manage Jenkins](#)
[My Views](#)
[Credentials](#)

Build Queue

No builds in the queue

Build Executor Status

1 idle
2 idle

Home directory

System Message

[Advanced...](#)

Maven Project Configuration

Global MA/DA_OPTS

Local Maven Repository

of executors

Labels

Usage

Quiet period

[Save](#)
[Apply](#)

Please test [Review](#)

Global properties

Environment variables

List of variables

Name

PROP_LOC

Value

<Path of the Property File>

Delete

Add

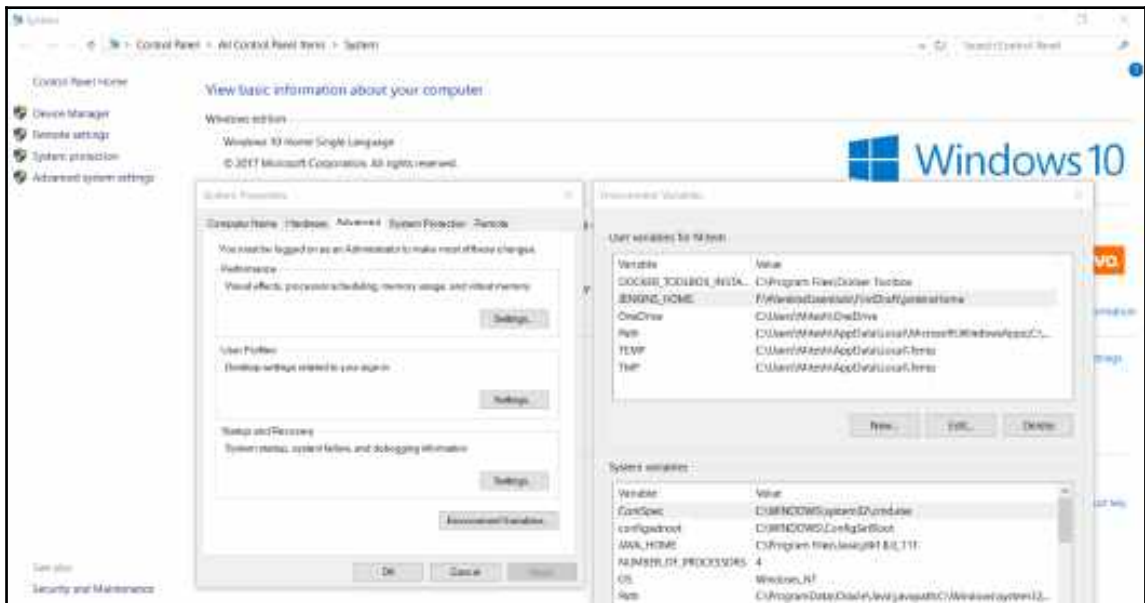
Jenkins Location

Jenkins URL

http://10.0.0.5:8080/

System Admin e-mail address

address not configured yet <nobody@nowhere>



```

mitesh51@jenkins:~$ vi /etc/default/jenkins
# Jenkins service configuration script.

# Jenkins can be run as a daemon, or as a foreground process.
NAME=jenkins

# Jenkins can be run as a daemon, or as a foreground process.
JAVA=/usr/bin/java

# Jenkins can be run as a daemon, or as a foreground process.
JAVA_ARGS="-Djava.awt.headless=true"

# Jenkins can be run as a daemon, or as a foreground process.
PIDFILE=/var/run/$NAME/$NAME.pid

# Jenkins can be run as a daemon, or as a foreground process.
JENKINS_USER=$NAME
JENKINS_GROUP=$NAME

# Location of the Jenkins war file
JENKINS_WAR=/usr/share/$NAME/$NAME.war

# Jenkins can be run as a daemon, or as a foreground process.
JENKINS_HOME=/var/lib/$NAME

# Jenkins can be run as a daemon, or as a foreground process.
RUN_STANDALONE=true

# Jenkins can be run as a daemon, or as a foreground process.
JENKINS_LOG=/var/log/$NAME/$NAME.log

```


Git

Git installations

Git

Name

Default

Path to Git executable

git

☐ Install automatically

Delete Git

Add Git

Ant

Ant installations

Ant

Name

ANT 1.10.1

☒ Install automatically

Install from Apache

Version

1.10.1

Delete Installer

Add Installer

Maven

Maven installations

Maven

Name

Maven 3.5.0

☒ Install automatically

Install from Apache

Version

3.5.0

Delete Installer

Add Installer

Delete Maven

Gradle

Gradle installations:

Gradle

name

Gradle 4.0.1

☒

Install automatically

Install from Gradle.org

Version

Gradle 4.0.1

Delete Installer

Delete Gradle

Add Installer

Add Gradle

List of Gradle installations on this system

 Jenkins


Mitch P | log out

jenkins


All


Enter an item name

* Required field

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

**Maven project**
Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.

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

**External Job**
This type of job allows you to record the execution of a process run outside Jenkins, even on a remote machine. This is designed so that you can add as a dashboard of your existing automation system.

OR

 configuration project

[22]

Jenkins - MyFirstAntExample

General **Source Code Management** Build Triggers Build Environment Build Post-build Actions

Git

Repositories

Repository URL:

Credentials: [Add](#)

[Advanced...](#)

[Add Repository](#)

Branches to build

Branch Specifier (blank for 'any'):

[Add Branch](#)

Repository browser:

Additional Behaviours: [Add](#)

General Source Code Management Build Triggers Build Environment **Build** Post-build Actions

Build

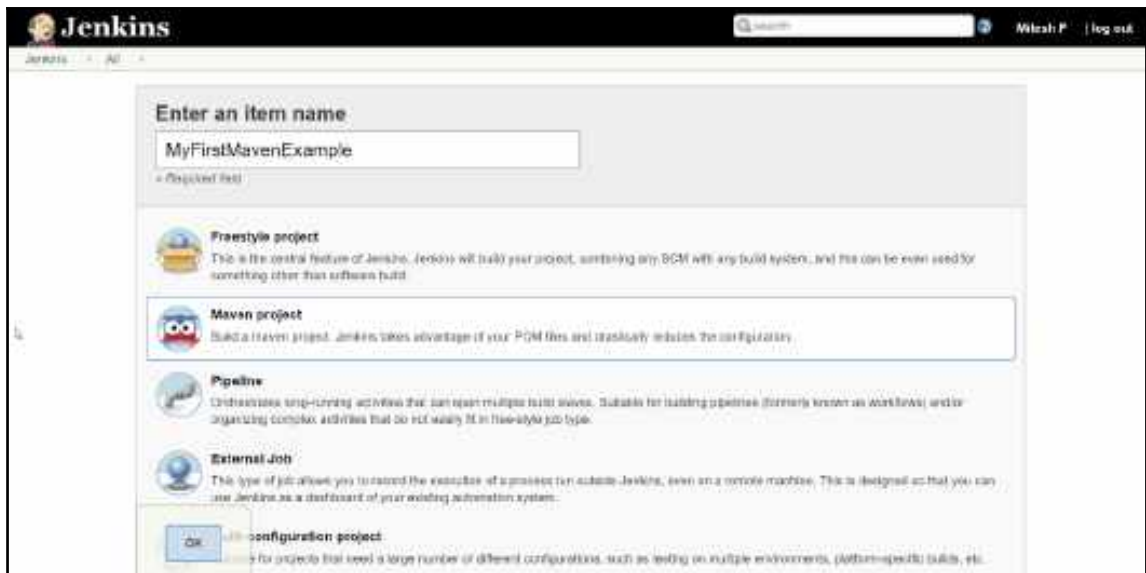
☐ Invoke Ant

Ant Version:

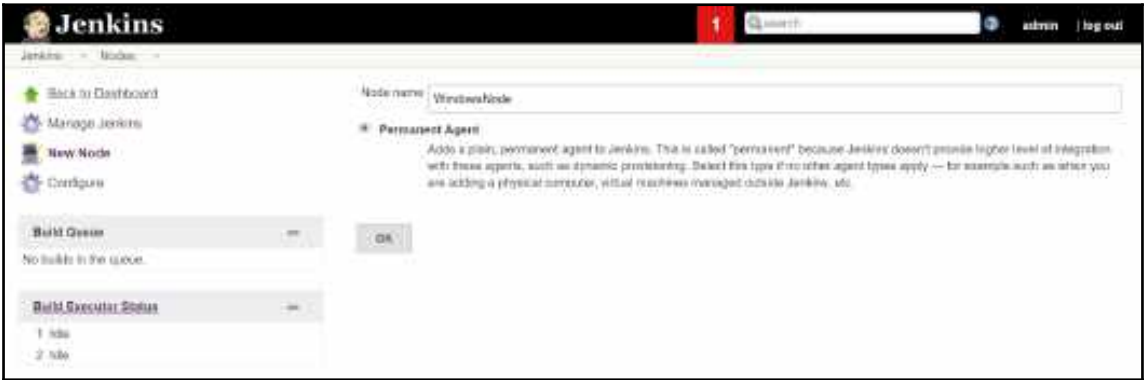
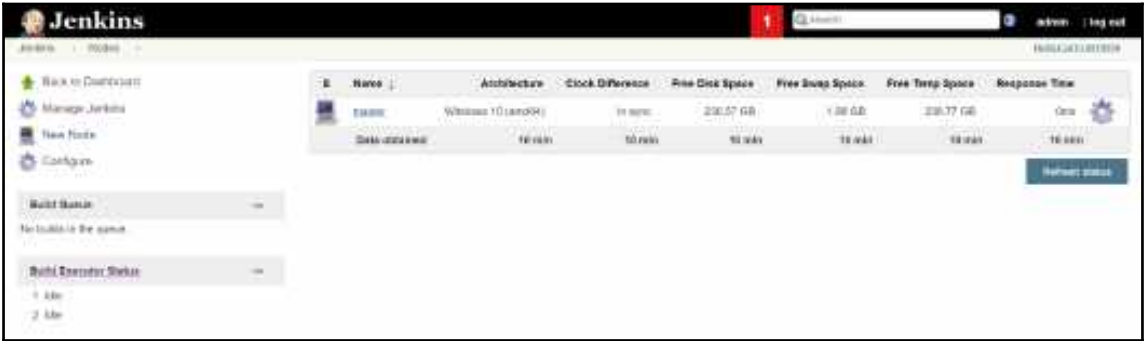
Targets:

[Advanced...](#)

[Add build step](#)



Chapter 02: Management and Monitoring of Jenkins





Configure Global Security

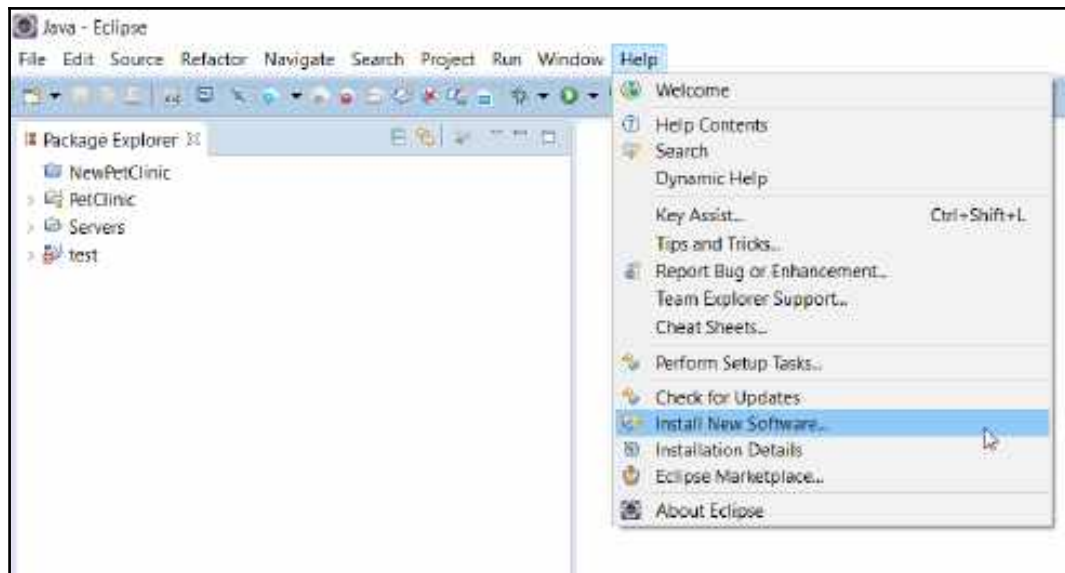
☒ Enable security

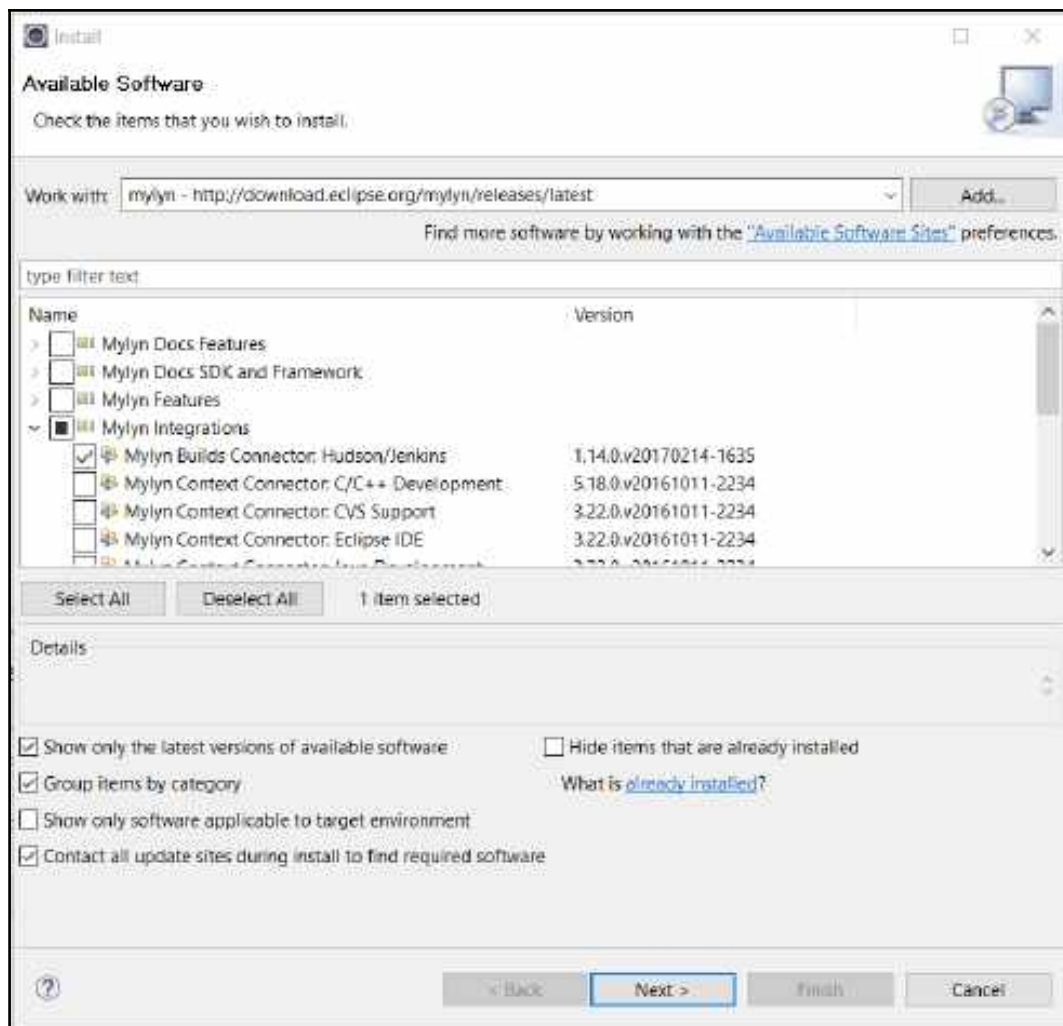
TCP port for JNLP agents: ☐ Fixed : ☒ Random ☐ Disable

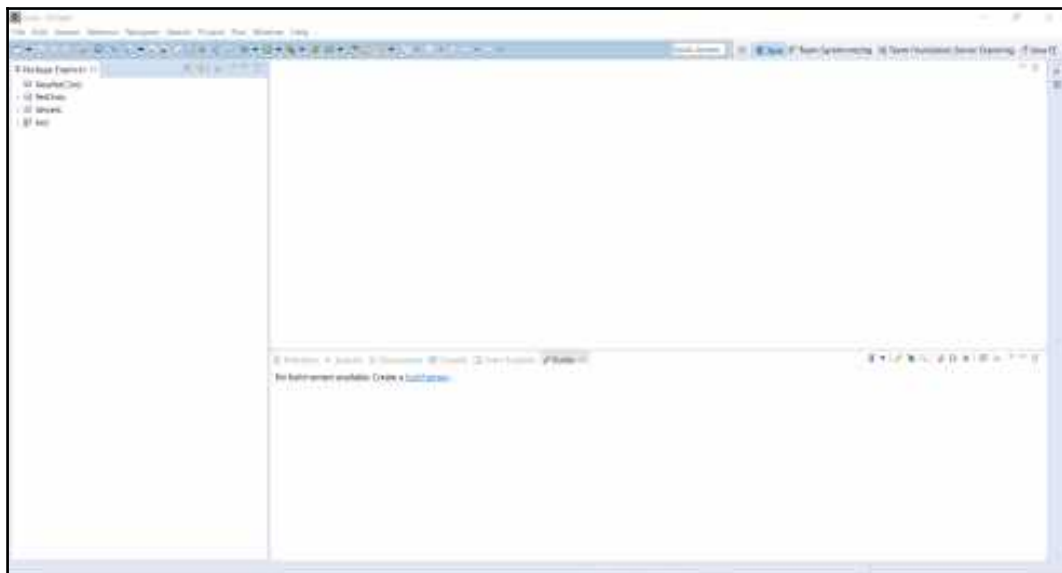
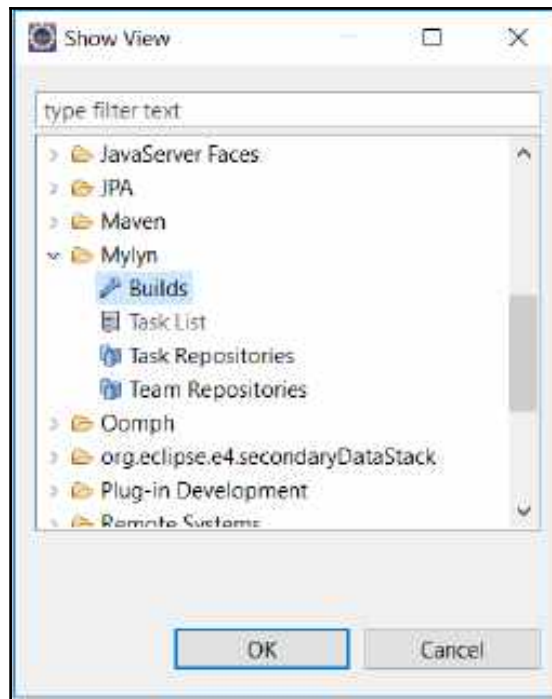
Agent protocols...

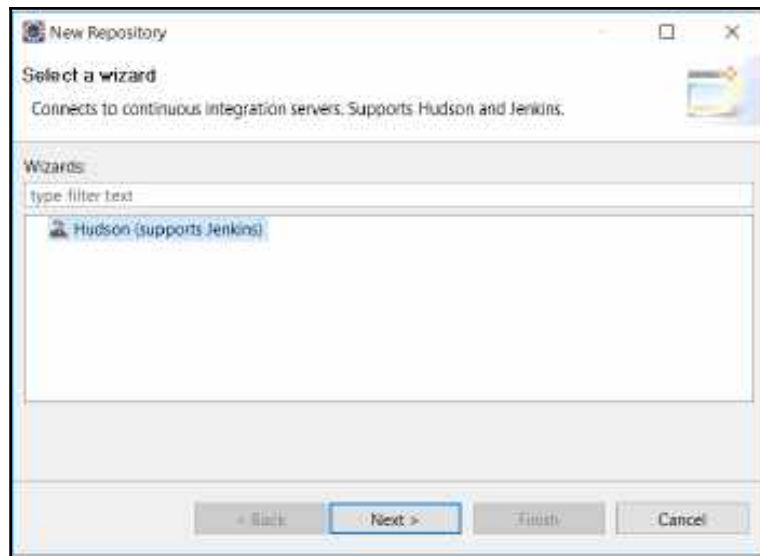
Disable remember me ☐


The screenshot shows the Jenkins web interface. The top navigation bar includes the Jenkins logo, a search bar, and links for 'admin' and 'log out'. The main content area is titled 'Agent WindowsNode' and features a red status indicator stating 'This agent is offline because Jenkins failed to launch the agent process on it. See log for more details.' Below this, there are instructions to connect the agent to Jenkins, including a 'Launch agent from browser' button and a 'Run from agent command line' option. A code block provides the command to run the agent: `java -jar jenkins-slave.jar -jnlpUrl http://localhost:8080/computer/WindowsNode/slave-agent.jnlp -secret 1c9d31e6a07e503ba28c175d3ca4727462a785a6466e77a1e6831fa25e79999`. The 'Labels' section lists 'Android', 'Test', and 'Windows'. The 'Projects tied to WindowsNode' section is currently empty.










 Build Server Properties

Build Server Properties

 Repository is valid.

Server:

Label: ☐ Disconnected

User: ☐ Anonymous

Password: ☒ Save Password

Build Plans

Type filter text

☒ PetClinic

☒ PetClinic-CloudProvisioning

☒ PetClinic-Code

☒ PetClinic-Deploy

☒ PetClinic-Docker

☒ PetClinic-FuncTest

☒ PetClinic-LoadTest

☒ PetClinic-Prod

HTTP Authentication

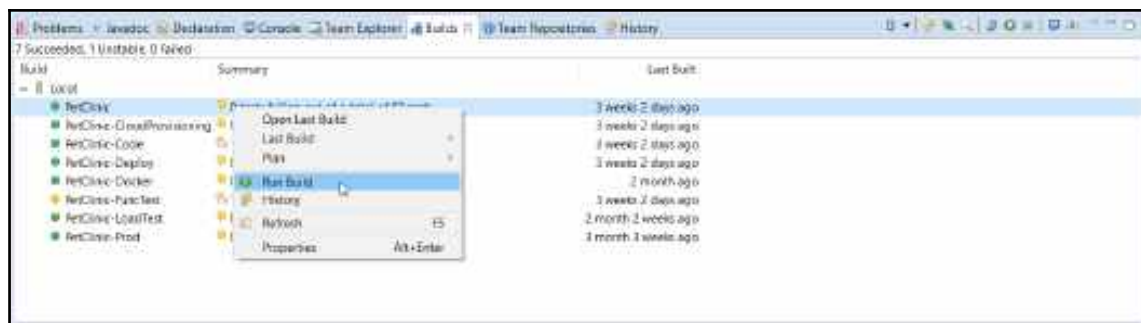
☐ Enable HTTP Authentication

User:

Password: ☐ Save Password

Certificate Authentication

Proxy Server Configuration



Installing Plugins/Upgrades

Preparation

- Checking internet connectivity
- Checking update center connectivity
- Success

Dashboard View

Success

Deploy to container Plugin

Success

Monitoring

Success

Audit Trail

Success

disk-usage plugin

Success







Backup plugin

Success

➡ [Go back to the top page](#)

(you can start using the installed plugins right away)

➡ Restart Jenkins when installation is complete and no jobs are running

	Disk Usage Displays per-project disk usage
	Manage Users Create/delete/modify users that can log in to this Jenkins
	In-process Script Approval Allows a Jenkins administrator to review proposed scripts (written e.g. in Groovy) which run inside the Jenkins process and so could bypass security restrictions.
	Backup manager Backup or Restore Jenkins configuration files
	Monitoring of Jenkins master Monitoring of memory, cpu, http requests and more in Jenkins master. You can also view the monitoring of Jenkins nodes .
	Prepare for Shutdown Stops executing new builds, so that the system can be eventually shut down safely.



Jenkins

[Jenkins](#) > [Backup manager](#)

 [New Item](#)
 [People](#)
 [Build History](#)
 [Project Relationship](#)
 [Check File Fingerprint](#)
 [Manage Jenkins](#)
 [My Views](#)
 [Credentials](#)
 [Disk Usage](#)



Backup manager

 [Setup](#)
 [Backup Hudson configuration](#)
 [Restore Hudson configuration](#)



Backup config files

Backup configuration

Hudson root directory F:\JenkinsEssentials\FirstDraft\jenkinsHome

Backup directory

Format

File name template

Custom exclusions

☐ Verbose mode

☐ Configuration files (.xml) only

☐ No shutdown

Backup content

☒ Backup job workspace

Includes

Excludes

Case-sensitive ☐

☐ Backup builds history

☐ Backup maven artifacts archives



Jenkins

1

Search

admin

log

Jenkins - Backup manager

New Item

People

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

My Views

Credentials

Disk Usage

Build Queue

0

Jenkins is going to shut down, no further builds will be performed. [\[expand\]](#)

Build Executor Status

0

1 idle

2 idle

Jenkins is going to shut down

```
[INFO] Backup started at [05/27/17 15:01:27]
[INFO] Setting hudson in shutdown mode to avoid files corruptions.
[INFO] Waiting all jobs end...
[INFO] Number of running jobs detected : 0
[INFO] All jobs finished.
[INFO] Full backup file name : d:\backup\YYYYMMDD_Home
```

Jenkins is going to shut down

```
[ INFO] Backup started at [05/27/17 15:01:27]
[ INFO] Setting hudson in shutdown mode to avoid files corruptions.
[ INFO] Waiting all jobs end...
[ INFO] Number of running jobs detected : 0
[ INFO] All jobs finished.
[ INFO] Full backup file name : d:\backup\YYYYDDMM_hhmm
[ INFO] Saved files : 12482
[ INFO] Number of errors : 0
[ INFO] Cancel hudson shutdown mode
[ INFO] Backup end at [05/27/17 15:03:51]
[ INFO] [143.935s]
```

The screenshot shows the Jenkins web interface. At the top, there's a black header with the Jenkins logo and a search bar. Below the header, the main content area is titled "Backup manager". On the left side, there's a sidebar with various navigation links: New Items, People, Build History, Project Relationship, Check File Fingerprint, Manage Jenkins, My Views, Credentials, and Disk Usage. The main content area displays "Available backup in d:\backup :" followed by a red-bordered box containing a file path and a "Launch restore" button. Below this, there are two sections: "Build Queue" showing "No builds in the queue" and "Build Executor Status" showing two executors in an "idle" state.

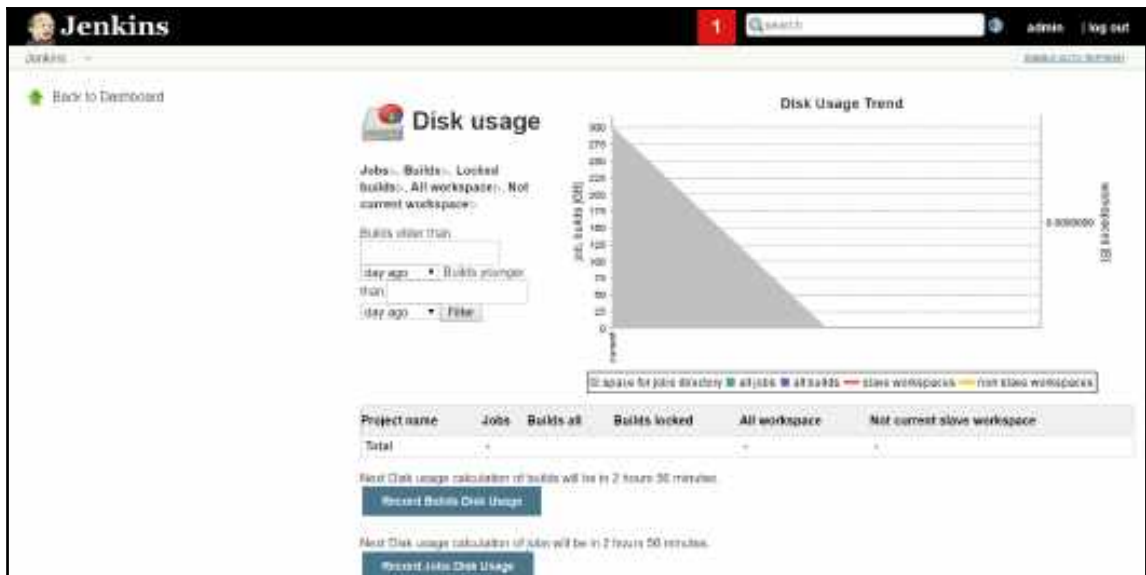
```
Command Prompt
C:\Users\Mitesh\Downloads>java -jar jenkins-cli.jar -s http://localhost:8080/ help
add-job-to-view
  Adds jobs to view.
build
  Builds a job, and optionally waits until its completion.
cancel-quiet-down
  Cancel the effect of the "quiet-down" command.
clear-queue
  Clears the build queue.
connect-node
  Reconnect to a node(s)
console
  Retrieves console output of a build.
copy-job
  Copies a job.
create-credentials-by-xml
  Create Credential by XML
create-credentials-domain-by-xml
  Create Credentials Domain by XML
create-job
  Creates a new job by reading stdin as a configuration XML file.
create-node
  Creates a new node by reading stdin as a XML configuration.
create-view
  Creates a new view by reading stdin as a XML configuration.
declarative-linter
  Validate a Jenkinsfile containing a Declarative Pipeline
delete-builds
  Deletes build record(s).
delete-credentials
  Delete a Credential
delete-credentials-domain
  Delete a Credentials Domain
delete-job
  Deletes job(s).
delete-node
  Deletes node(s)
delete-view
  Deletes view(s).
```

```
Command Prompt
C:\Users\Mitesh\Downloads>java -jar jenkins-cli.jar -s http://localhost:8080/ version
2.73

C:\Users\Mitesh\Downloads>java -jar jenkins-cli.jar -s http://localhost:8080/ who-am-i
Authenticated as: anonymous
Authorities:
  anonymous

C:\Users\Mitesh\Downloads>java -jar jenkins-cli.jar -s http://localhost:8080/ list-jobs
AzureAppDeploy
CucumberProject
CucumberProject2
FirstAndroidProject
FirstAntExample
FirstJob
FirstPipeline
Main-PetClinic
Maven-Sample
mitesh51
PetClinic-Code
PetClinic-Deploy
PetClinic-FuncTest
PetClinic-LoadTest
PetClinic-Package
PetClinic-Prod
PetClinicWebHook
SonarHTMLCSSJS
SpringBoot
Test
TestPipeline
ZapTest
ZapTestBackup

C:\Users\Mitesh\Downloads>
```



Disk usage:

☒ Enable calculation of builds
Time interval for calculation:

☒ Enable calculation of jobs
Time interval for calculation:

☒ Enable calculation of workspace
Time interval for calculation:

☐ Warn if some size is exceeded

Show disk usage trend graph on the project page: ☒

Show free space of jobs directory in global graph: ☒

Length of global disk usage history:

Time out for calculation of slave workspace in minutes:

Control workspace from slave side too: ☐

Jobs excluded for disk usage calculation:

Filter:

[Updates](#)
[Available](#)
[Installed](#)
[Advanced](#)


Install	Name	Version
	Dynamix Application Monitoring Plugin	2.0.5
	Monitoring Monitoring of Jenkins	1.67.0
	Job/Queue/Slaves Monitoring Plugin	1.4


[Install without restart](#)


[Download now and install after restart](#)


Update information obtained: 1 day 4 hr ago


[Check now](#)



[Jenkins CLI](#)
 Access/manage Jenkins from your shell, or from your script.



[Script Console](#)
 Executes arbitrary script for administration/trouble-shooting/diagnostics.



[Manage Nodes](#)
 Add, remove, control and monitor the various nodes that Jenkins runs jobs on.



[About Jenkins](#)
 See the version and license information.



[Manage Old Data](#)
 Scrub configuration files to remove remnants from old plugins and earlier versions.

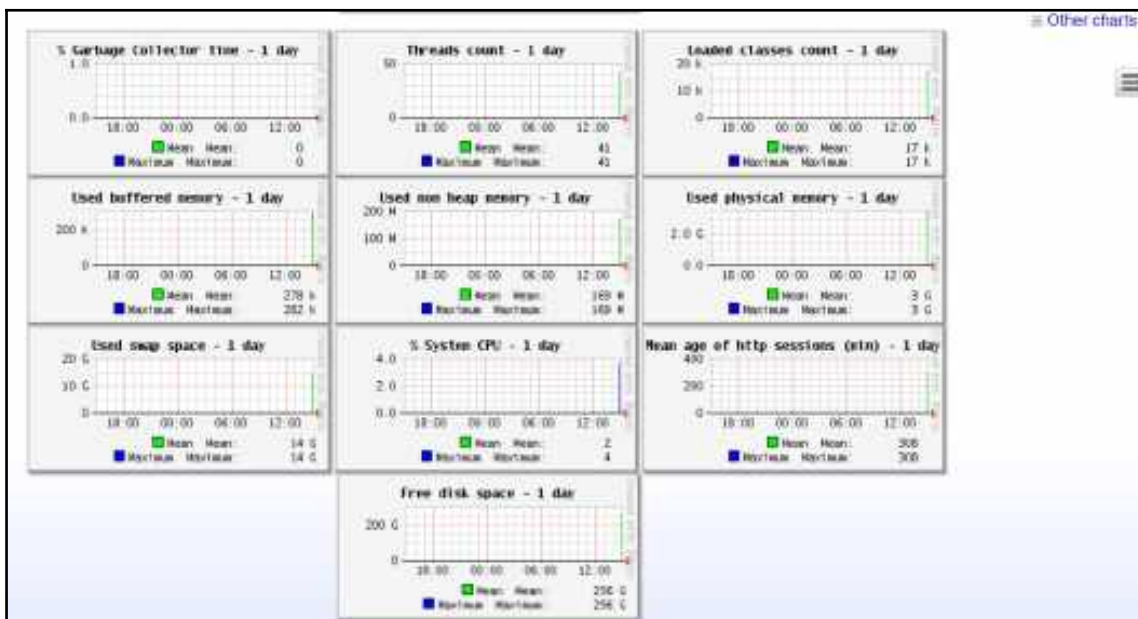
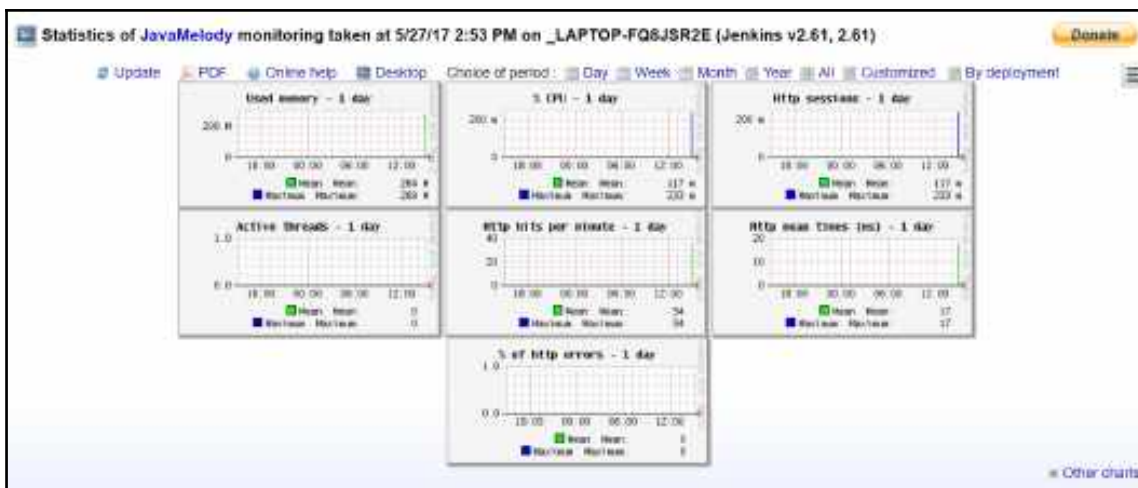

[Install as Windows Service](#)
 Installs Jenkins as a Windows service to this system, so that Jenkins starts automatically when the machine boots.


[Manage Users](#)
 Create/delete/modify users that can log in to this Jenkins.


[In-process Script Approval](#)
 Allows a Jenkins administrator to review proposed scripts (written e.g. in Groovy) which run inside the Jenkins process and so could bypass security restrictions.


[Monitoring of Jenkins master](#)
 Monitoring of memory, cpu, http requests and more in Jenkins master.
 You can also view the monitoring of [Jenkins nodes](#).


[Prepare for Shutdown](#)
 Stops executing new builds, so that the system can be eventually shut down safely.



Jenkins

Open Blue Ocean

2

admin

log out

New Item

People

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

My Views

Disk Usage

Credentials

Build Queue

No builds in the queue

Build Executor Status

1 idle

2 idle

All

My Dashboard

Feedback

#	W	Name	Last Success	Last Failure	Last Duration	Fav
1	🌐	PostArtExecution	11 days - 42	11 days - 41	14 sec	👤 ☆
2	🌐	PostArt	9 days 1 hr - 412	N/A	5.9 sec	👤 ☆
3	🌐	PostPipeline	2 days 21 hr - 420	2 days 22 hr - 438	8 min 18 sec	👤 ☆
4	🌐	Map-PostCheck	16 days - 43	N/A	30 min	👤 ☆
5	🌐	Map-SetState	10 days - 43	N/A	30 sec	👤 ☆
6	👤	adminUI	2 days 21 hr - 43	N/A	6 min 38 sec	👤 ☆
7	🌐	PostCheckCode	2 days 18 hr - 423	11 days - 420	2 min 40 sec	👤 ☆
8	🌐	PostCheckQuality	2 days 18 hr - 43	2 days 22 hr - 43	3 min 18 sec	👤 ☆
9	🌐	PostCheckFunction	2 days 18 hr - 43	N/A	37 sec	👤 ☆
10	🌐	PostCheckLocalizer	2 days 18 hr - 44	N/A	1 min 5 sec	👤 ☆
11	🌐	PostCheckPackage	2 days 18 hr - 42	N/A	3 min 7 sec	👤 ☆
12	🌐	PostCheckProd	2 days 18 hr - 43	N/A	1 min 52 sec	👤 ☆
13	🌐	Testbook	N/A	16 days - 42	4.2 sec	👤 ☆

Jenkins

Open Blue Ocean

2

admin

log out

New Item

People

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

My Views

Disk Usage

Credentials

Build Queue

No builds in the queue

Build Executor Status

1 idle

2 idle

View name: PostCheck-M

Build Monitor View

Shows a highly visible status of selected jobs. Ideal as an Extreme Feedback Device to be displayed on a screen in your office wall.

Build Pipeline View

Shows the jobs in a build pipeline view. The complete pipeline of jobs that a workflow propagates through are shown as a flow in the view.

Dashboard

Customizable view that contains various panels containing information about your jobs.

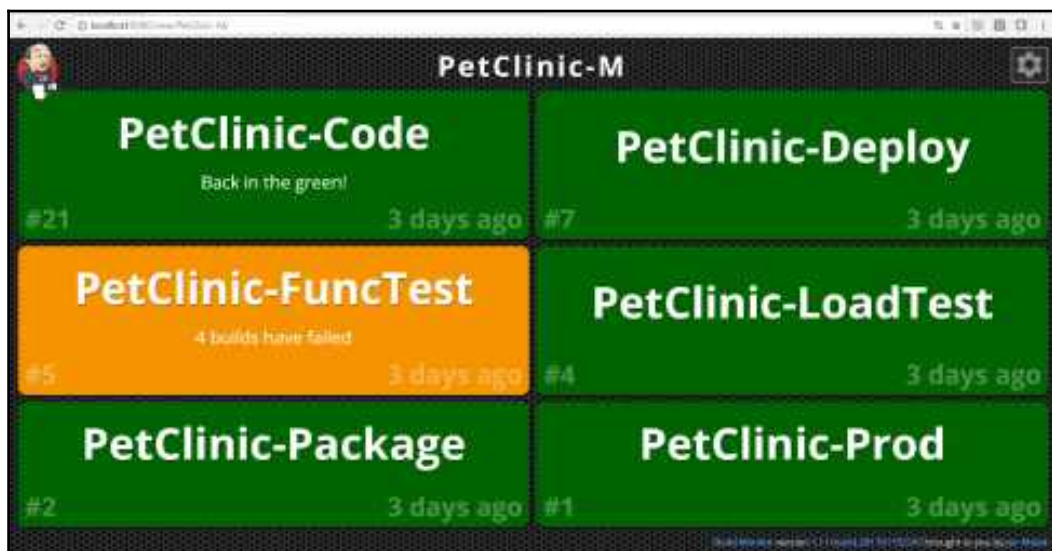
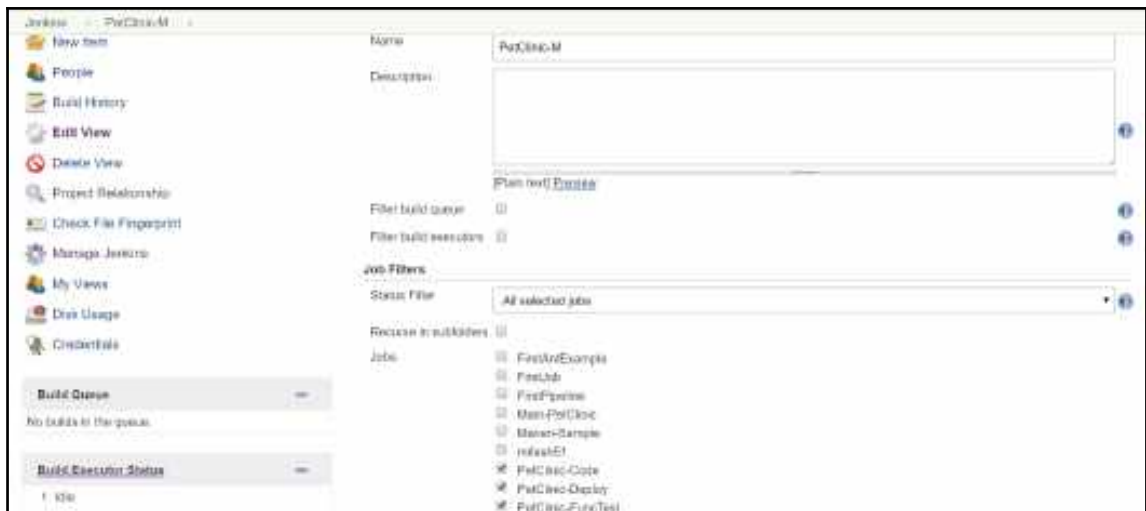
List View

Shows items in a simple list format. You can choose which jobs are to be displayed in which View.

My View

This view automatically displays all the jobs that the current user has an access to.

OK



E-mail Notification

SMTP server: smtp.gmail.com

Default user e-mail suffix:

☒ Use SMTP Authentication

User Name: [redacted]@gmail.com

Password: [redacted]

Use SSL: ☒

SMTP Port: 465

Reply-To Address: [redacted]@gmail.com

Charset: UTF-8

☐ Test configuration by sending test e-mail

jenkins > Pool-DeployTool >

General > Master Config Management > Build Triggers > Build Environment > Build > **Post-Build Actions**

Credentials: idtest517***** (Generated deploy-pragn credentials for Jenkins) + Add

Transfer URL: http://localhost:8080/

Add Controller +

Deploy on failure: ☐

E-mail Notification

Recipients: [redacted]

Whisperous-supported list of recipient addresses. May reference build parameters like \$PARAM. E-mail will be sent when a build fails, becomes unstable or returns to stable.

☒ Send e-mail for every unstable build

☐ Send separate e-mails to individuals who trigger the build

Add post-build action +

Save Cancel

Jenkins - PetClinic-Prod - Post-build Actions

Editable Email Notification

☐ Enable Extended Email Publisher

Project Recipient List:

Project Reply-To List:

Content Type:

Default Subject:

Default Content:

Attachments:

Attach Build Log:

Content Token Reference

Save Apply Advanced Settings...

Jenkins - Script Console

Type in an arbitrary [Groovy script](#) and execute it on the server. Useful for trouble-shooting and diagnostics. Use the `println` command to see the output. If you use `System.out`, it will go to the server's stdout, which is harder to see. Example:

```
println(Jenkins.instance.pluginManager.plugins)
```

All the classes from all the plugins are visible. `Jenkins`, `Jenkins.model`, `Hudson`, and `Hudson.model` are pre-imported.

```
def warnings("You can #WARN! this job!")
def nowDate()
for (job in Jenkins.model.Hudson.instance.items) {
println "name: $job.name"
Run testSuccessfulBuild = job.getTestSuccessfulBuild()
if (testSuccessfulBuild != null) {
def time = testSuccessfulBuild.getTimeStamp().getTime()
if (now.month.equals(time.month)) {
println "Project has same month as build"
} else {
if (job.description.startsWith(warnings)) {
println "Description has already been changed"
} else {
job.setDescription("$warnings")
}
}
}
}
```

Run

Result

Name: AzureAppDeploy

Name: CucumberProject

Project has same month as build

Name: CucumberProject2

Project has same month as build

Name: FirstAndroidProject

Name: FirstAntExample

Project has same month as build

Name: FirstJob

Project has same month as build

Name: FirstPipeline

Name: Main-PetClinic

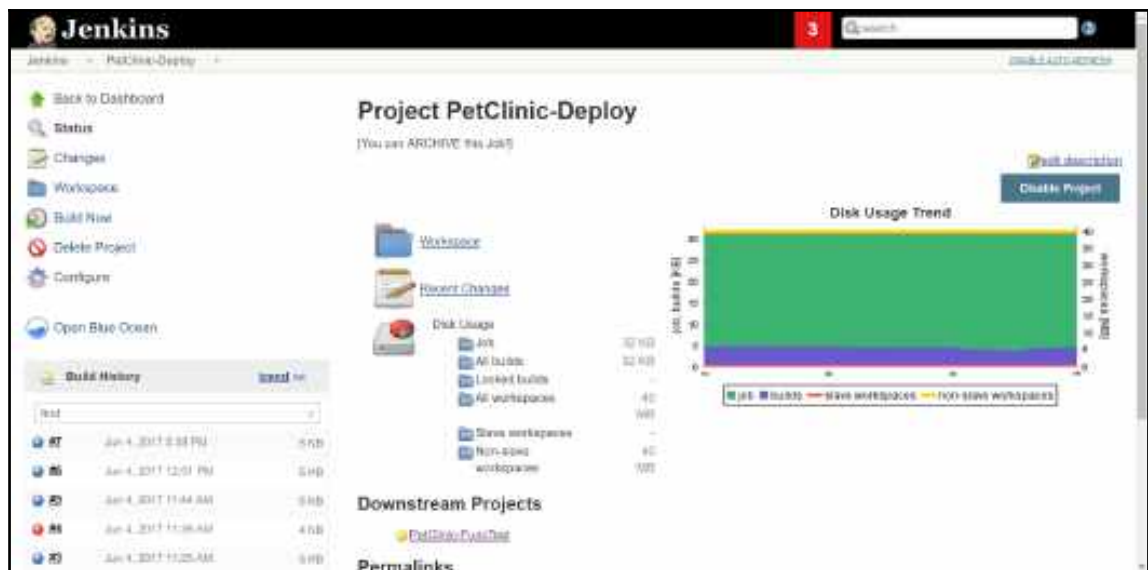
Name: Maven-Sample

Name: mitesh51

Name: PetClinic-Code

Name: PetClinic-Deploy


Name: PetClinic-FuncTest





The Jenkins Project PetClinic-Deploy configuration page, General tab, displays the following information:


- Project name:** PetClinic-Deploy
- Description:** (You can ARCHIVE this job!)
- Options:** A list of checkboxes for configuring the project, including:
 - ☐ Discard old builds
 - ☐ GitHub project
 - ☐ Permission to Copy Artifact
 - ☐ Promote builds when...
 - ☐ This project is promoted...
 - ☐ Timeout builds
 - ☐ Prepare an environment for the job
 - ☐ Display this console
- Buttons:** Save, Apply, and Advanced... buttons.


Chapter 03: Managing Security


[System Log](#)
System log captures output from `java.util`. Logging output related to Jenkins.


[Load Statistics](#)
Check your resource utilization and see if you need more computers for your builds.


[Jenkins CLI](#)
Access/manage Jenkins from your shell, or from your script.


[Script Console](#)
Executes arbitrary script for administration/trouble-shooting/diagnostics.


[Manage Nodes](#)
Add, remove, control and monitor the various nodes that Jenkins runs jobs on.


[About Jenkins](#)
See the version and license information.

[Manage Old Data](#)
Scrubs configuration files to remove remnants from old plugins and earlier versions.

[Install as Windows Service](#)
Installs Jenkins as a Windows service to this system, so that Jenkins starts automatically when the machine boots.

[Manage Users](#)
Create/delete/modify users that can log in to this Jenkins.

[In-process Script Approval](#)
Allows a Jenkins administrator to review proposed scripts (written e.g. in Groovy) which run inside the Jenkins process and so could bypass security restrictions.

[Prepare for Shutdown](#)
Stops executing new builds, so that the system can be eventually shut down safely.

**Jenkins**1 [admin](#) | [log out](#)

Jenkins = Jenkins' own user database [create a new database](#)

[Back to Dashboard](#)


[Manage Jenkins](#)

[Create User](#)


Users


These users can log into Jenkins. This is a sub set of [this list](#), which also contains auto-created users who really just made some commits on some projects and have no direct Jenkins access.


User Id	Name
 admin	admin 

**Jenkins**

Jenkins > Jenkins' own user database

 Back to Dashboard

 Manage Jenkins

 Create User

Create User

Username:

Shreyansh

Password:

Confirm password:

Full name:

Shreyansh Soni


E-mail address:

@gmail.com

Create User


Uses Jenkins


localhost:8080/security/realms/


**Jenkins**

1 admin | log out

Jenkins > Jenkins' own user database




 Back to Dashboard

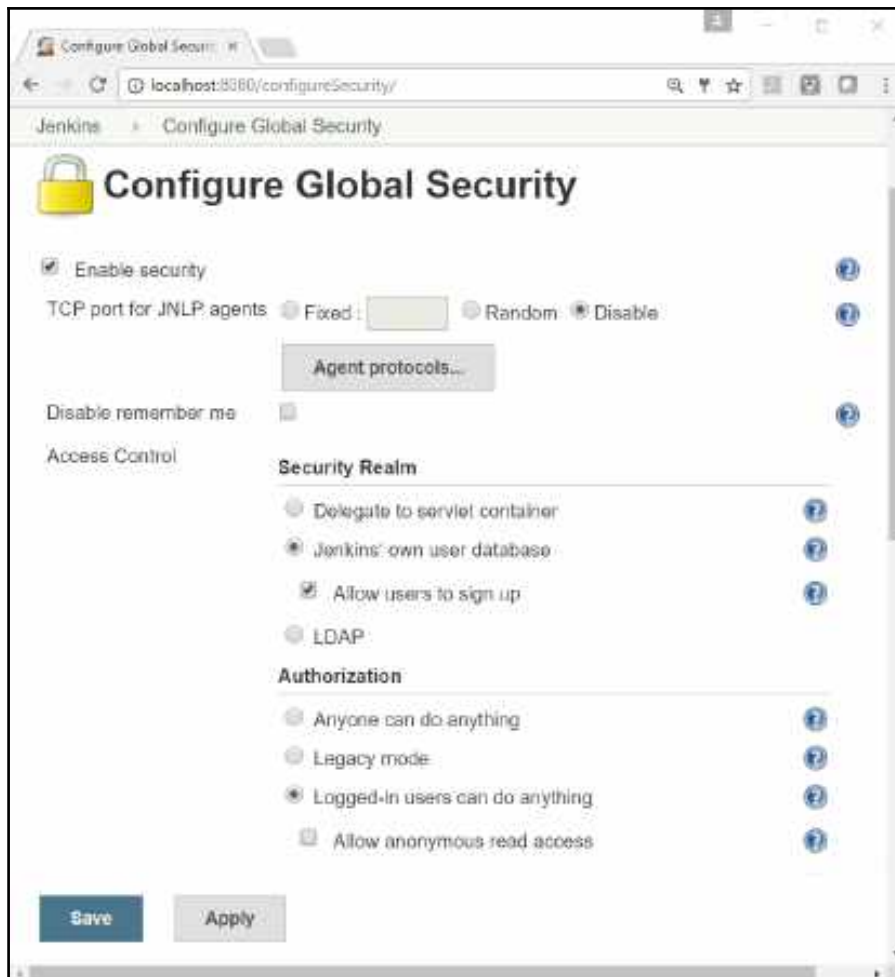
 Manage Jenkins

 Create User

Users

These users can log into Jenkins. This is a sub set of [this list](#), which also contains auto-created users who really just made some commits on some projects and have no direct Jenkins access.

User Id	Name	
 admin	admin	
 Shreyansh	Shreyansh Soni	



Jenkins » » Configure Global Security

Access Control

Security Realm

- ☐ Delegate to service container
- ☒ Jenkins' own user database
 - ☒ Allow users to sign up
- ☐ LDAP

Authorization

- ☐ Anyone can do anything
- ☐ Legacy mode
- ☐ Logged-in users can do anything
- ☒ Matrix-based security

User/group	Overall	Credentials										Agent										Job									
	Administer	Read	Create	Delete	Manage	Connect	Update	View	Build	Configure	Connect	Create	Delete	Disconnect	Provide	Build	Cancel	Configure	Create	Delete	Disconnect	Monitor									
admin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									

Use group to edit admin

☐ Project-based Matrix Authorization Strategy

Markup Formatter

Plain text

The screenshot shows the 'Configure Global Security' page in Jenkins. The 'Security Realm' is set to 'LDAP'. The 'Authorization' is set to 'Matrix-based security'. A table shows permissions for 'Anonymous', 'admin', and 'Shinyanlin' across various actions like 'AdministerTools', 'CreateNewItem', etc. The 'admin' group has full permissions, while 'Shinyanlin' has limited permissions. A 'Users/groups to add' field contains 'Shinyanlin'.



Jenkins

[Back to Dashboard](#)
[Status](#)
[Changes](#)
[SonarCube](#)

Project PetClinic-Code

[SonarCube](#)
[Recent Changes](#)

Build History

Build	Time
#20	May 26, 2017 10:14 PM
#19	May 26, 2017 11:05 AM
#18	May 26, 2017 10:09 AM

[RSS for all](#)
[RSS for failures](#)

Permalinks

- [Last build \(#20\) 14 hr ago](#)
- [Last stable build \(#18\) 1 day 2 hr ago](#)
- [Last successful build \(#18\) 1 day 2 hr ago](#)
- [Last failed build \(#20\) 14 hr ago](#)
- [Last unsuccessful build \(#20\) 14 hr ago](#)
- [Last completed build \(#20\) 14 hr ago](#)

Jenkins

[Configure Global Security](#)

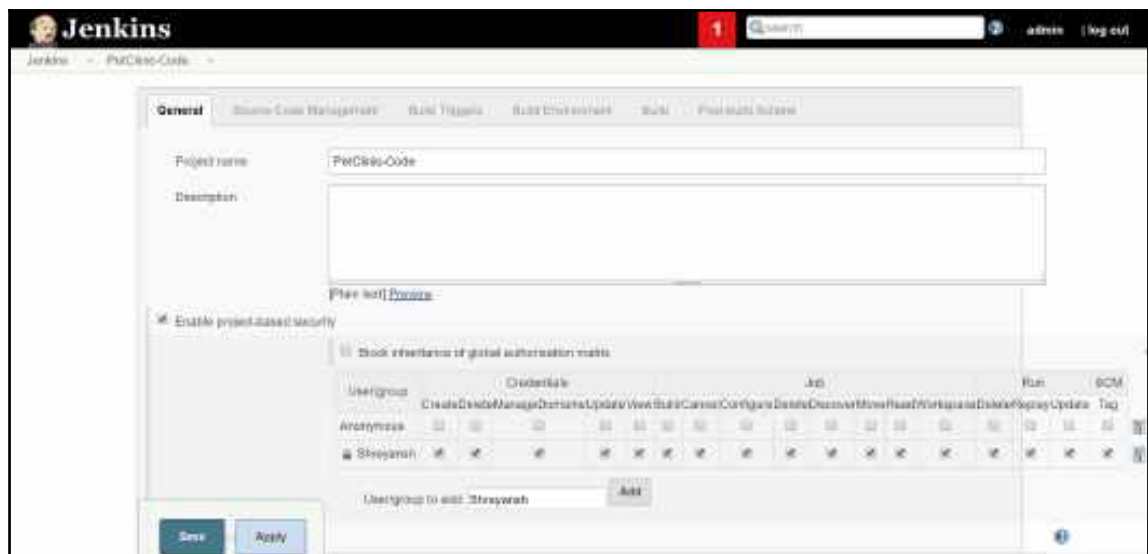
Authentication

☐ Anyone can do anything
 ☐ Legacy Mode
 ☐ Logged-in users can do anything
 ☐ Matrix-based security
 ☒ Project-based Matrix Authentication Strategy

Username	Group	Conditions	Agents	Jobs
Anonymous				
admin				

☒ Prevent Cross Site Request Forgery exploits

☒ Default CSRF token
 ☐ Enable proxy compatibility



Jenkins
Configure Global Security

Authentication

☐ Anyone can do anything
 ☐ Legacy mode
 ☐ Logged-in users can do anything
 ☐ Matrix-based security
 ☒ Project-based Matrix Authorization Strategy

User/group	Overall	Credentials	Agent	Job
	AdministerReadCreateDeleteManageCommentsUpdateViewBuildConfigureCancelNeedCreateDeleteEligibleReceivedProvisionBuildCancelConfigureCreateDeleteDiscoverM			
admin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Anonymous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stresserath	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

User/group to add: Stresserath
Add

Markup Formatter
Plain text

☒ Prevent Cross Site Request Forgery exploits

Crumb

Crumb Algorithm
☒ Default Crumb Issue

Save
Apply

Jenkins
Configure Global Security

Authentication

☐ Anyone can do anything
 ☐ Legacy mode
 ☐ Logged-in users can do anything
 ☐ Matrix-based security
 ☒ Project-based Matrix Authorization Strategy

User/group	Overall	Credentials	Agent	Job
	AdministerReadCreateDeleteManageCommentsUpdateViewBuildConfigureCancelNeedCreateDeleteEligibleReceivedProvisionBuildCancelConfigureCreateDeleteDiscoverM			
admin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Anonymous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stresserath	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

User/group to add: Stresserath
Add

Markup Formatter
Plain text

☒ Prevent Cross Site Request Forgery exploits

Crumb

Crumb Algorithm
☒ Default Crumb Issue

Save
Apply

Shreyash Soni | log out

[Jenkins](#)
[View all jobs](#)

People
 Build History
 Project Relationship
 Check File Fingerprint
 My Views

Build Queue

No builds in the queue.

Build Executor Status

1 idle
 2 idle

All | My Dashboard

S	W	Name	Last Success	Last Failure	Last Duration
		PetClinic-Code	1 day 3 hr - #218	10 hr - #220	1 min 34 sec

[Logins](#)
[RSS for all](#)
[RSS for failures](#)
[RSS for last 10 build results](#)

Shreyash Soni | log out

[Jenkins](#)
[PetClinic-Code](#)
[View all jobs](#)

[Back to Dashboard](#)
[Status](#)
[Changes](#)
[Workspace](#)
[Build Now](#)
[Delete Project](#)
[Configure](#)
[SonarGate](#)

Build History

#218

May 28, 2017 10:11 PM

#219

May 28, 2017 11:05 AM

#220

May 28, 2017 10:00 AM

[RSS for all](#)
[RSS for failures](#)

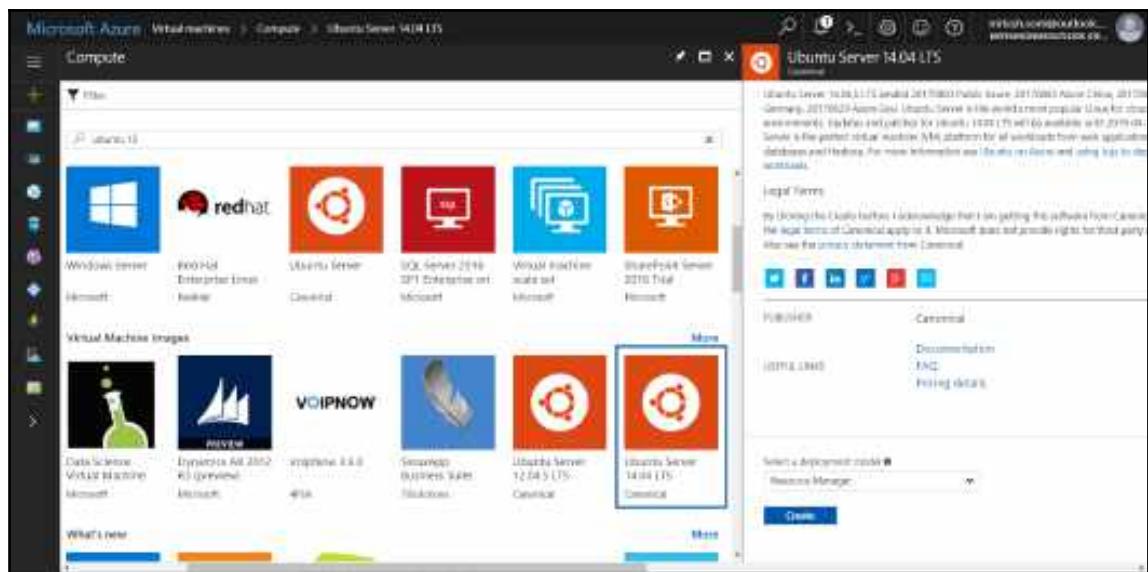
Project PetClinic-Code

[SonarGate](#)
[Workspace](#)
[Recent Changes](#)

Permalinks

- [Last build \(#220\), 10 hr ago](#)
- [Last success build \(#218\), 1 day 3 hr ago](#)
- [Last successful build \(#219\), 9 days 2 hr ago](#)
- [Last failed build \(#220\), 10 hr ago](#)
- [Last successful build \(#218\), 16 hr ago](#)
- [Last successful build \(#220\), 10 hr ago](#)

[Build now](#)
[Delete Project](#)



Microsoft Azure Virtual machines > Compute > Ubuntu Server 14.04 LTS > Create virtual machine > Basics

Create virtual machine

1 Basics
Configure basic settings

2 Size
Choose virtual machine size

3 Settings
Configure optional features

4 Purchase
Ubuntu Server 14.04 LTS

Basics

Name

myopenldap ✓

VM disk type

SSD ▼

User name

mitesh51 ✓

Authentication type

SSH public key Password

Password

***** ✓

Confirm password

***** ✓

Subscription

Visual Studio Enterprise with MSDN ▼

Resource group

Create new Use existing

JenkinsCookBook ✓

Location

OK

Microsoft Azure Virtual machines > Compute > Ubuntu Server 14.04 LTS > Create virtual machine > Choose a size

Create virtual machine

- 1 Basics Done ✓
- 2 Size Choose virtual machine size >
- 3 Settings Configure optional features >
- 4 Purchase Ubuntu Server 14.04 LTS >

Choose a size

Shows the available sizes and their features

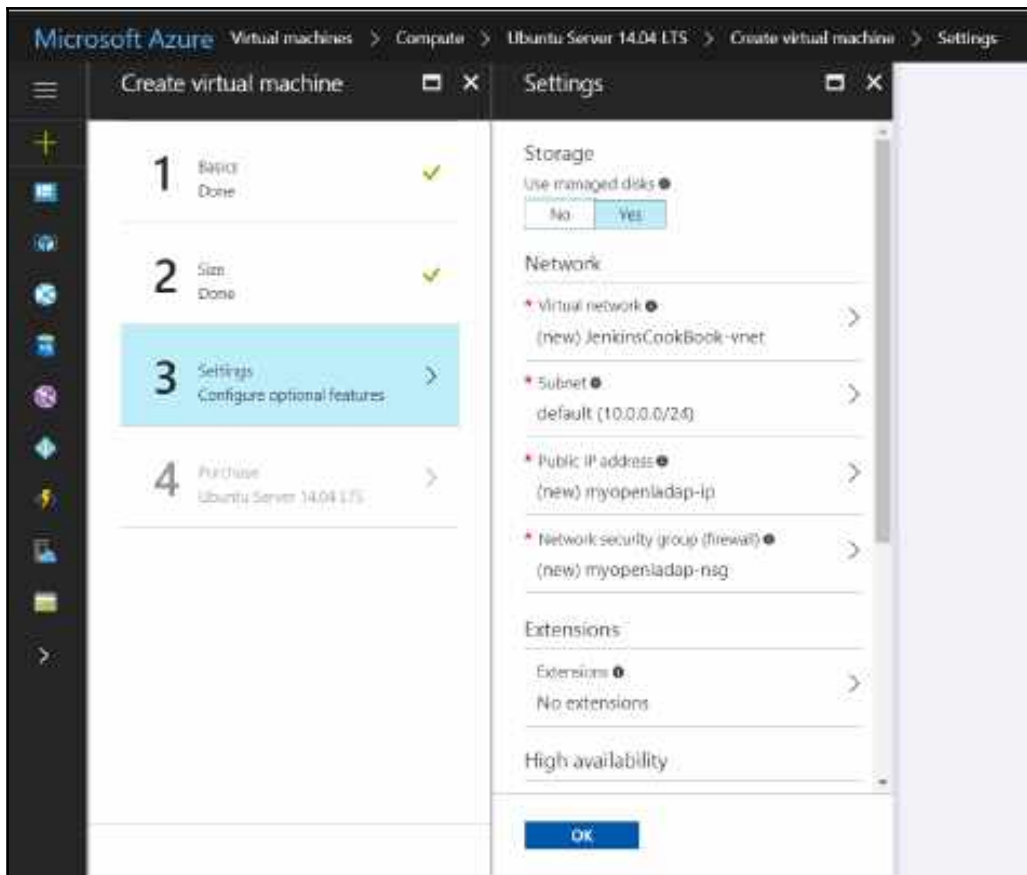
Prices presented are estimates in your local currency that include only Azure infrastructure costs and any discounts for the subscription and location. The prices don't include any applicable software costs. Recommended sizes are determined by the publisher of the selected image based on hardware and software requirements.

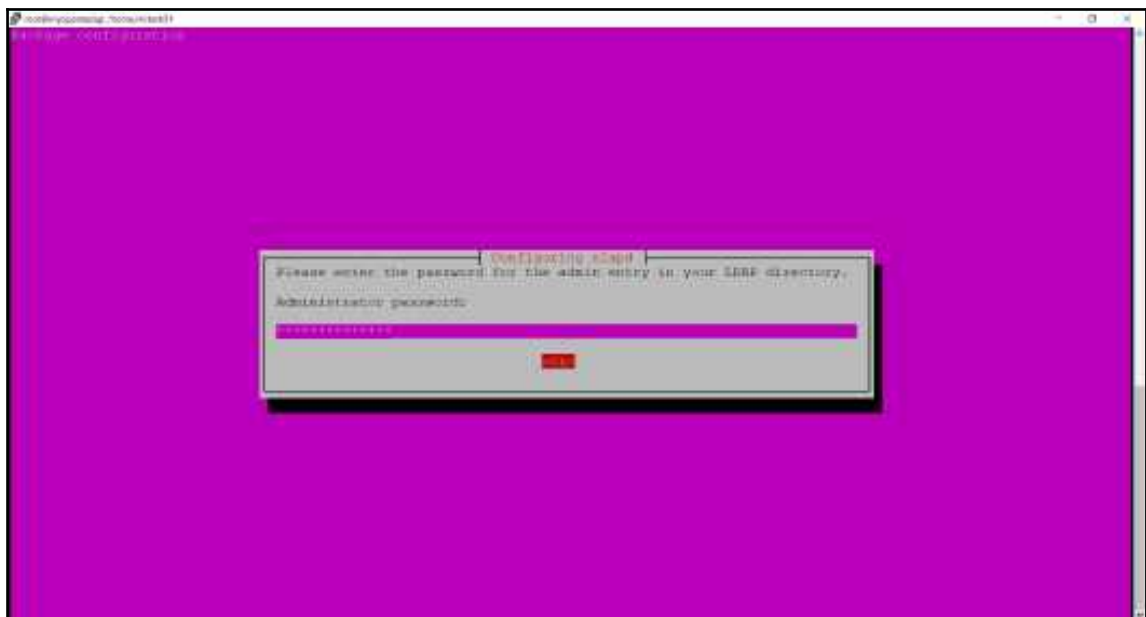
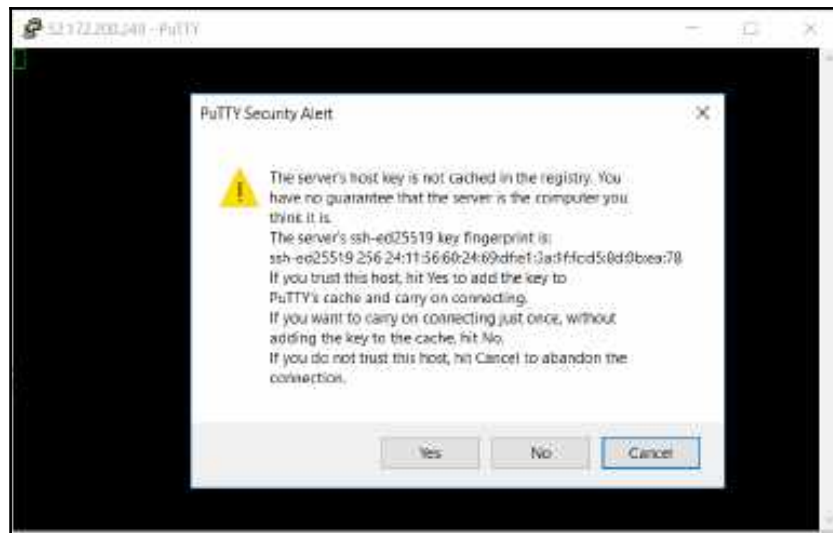
Supported disk type: SSD Minimum cores: 1 Minimum memory (GiB): 0

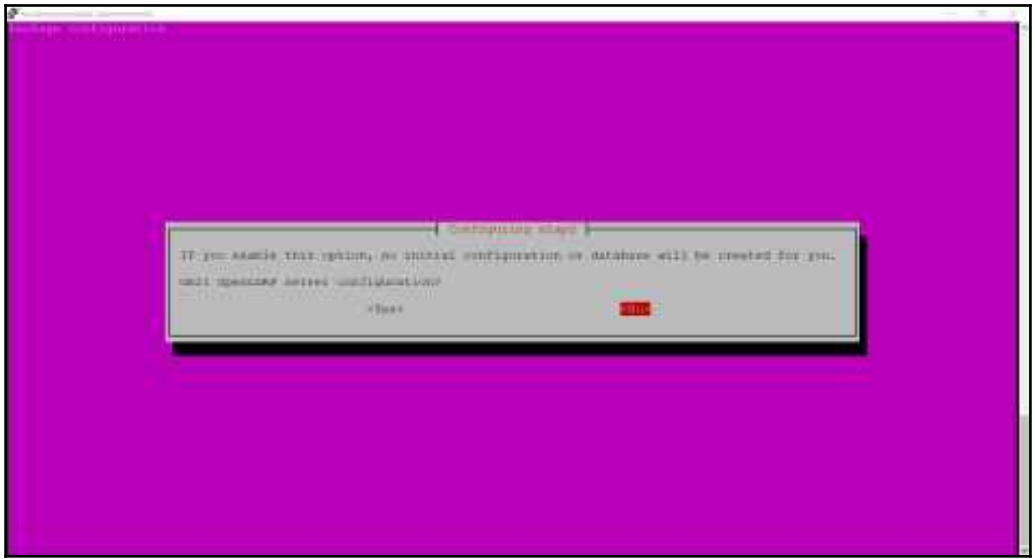
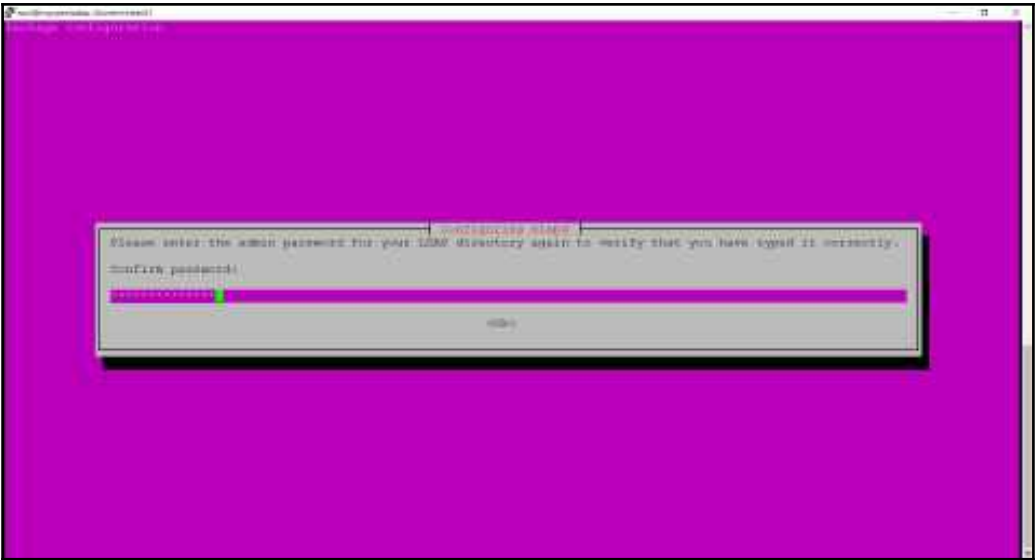
★ Recommended | View all

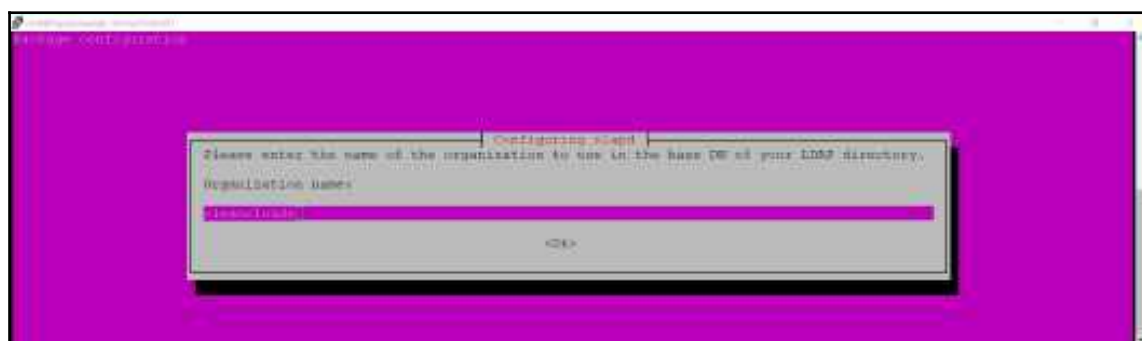
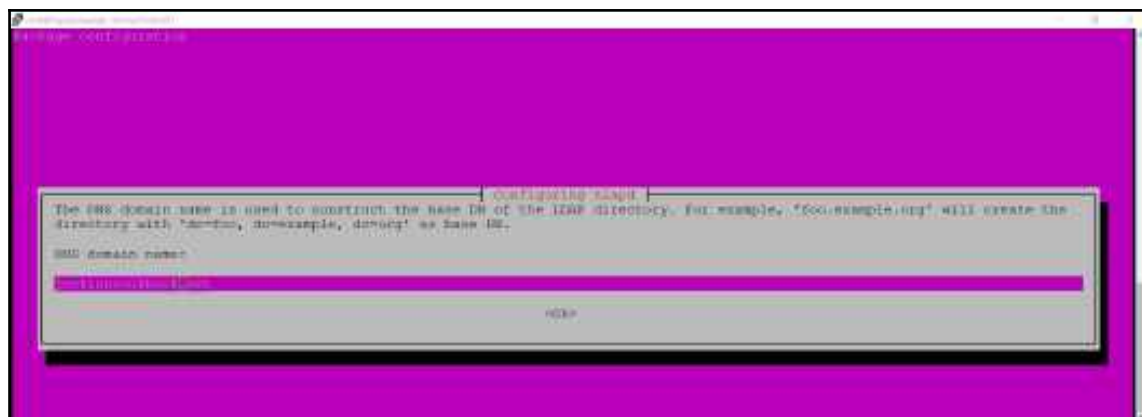
DS1_V2 - Standard	DS2_V2 - Standard	DS3_V2 - Standard
1 Core	2 Cores	4 Cores
3.5 GB	7 GB	14 GB
2 Data disks	4 Data disks	8 Data disks
3200 Max IOPS	6400 Max IOPS	12800 Max IOPS
7 GB Local SSD	14 GB Local SSD	28 GB Local SSD
Load balancing	Load balancing	Load balancing
Premium disk support	Premium disk support	Premium disk support
4,179.93	8,310.68	16,572.18
PER MONTH (ESTIMATED)	PER MONTH (ESTIMATED)	PER MONTH (ESTIMATED)

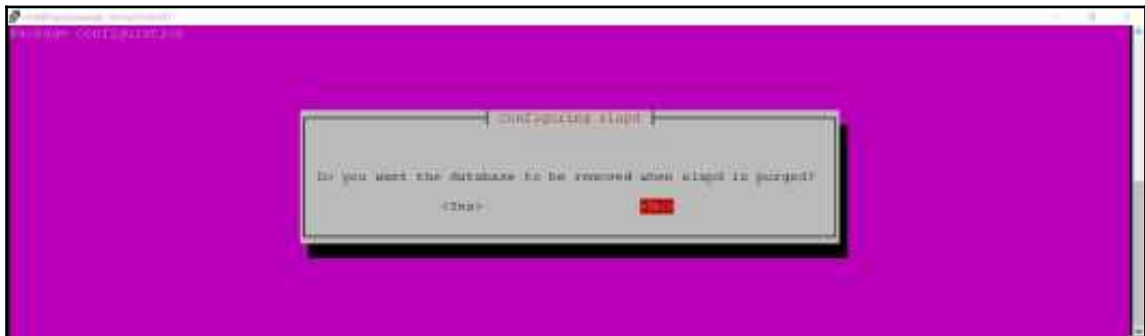
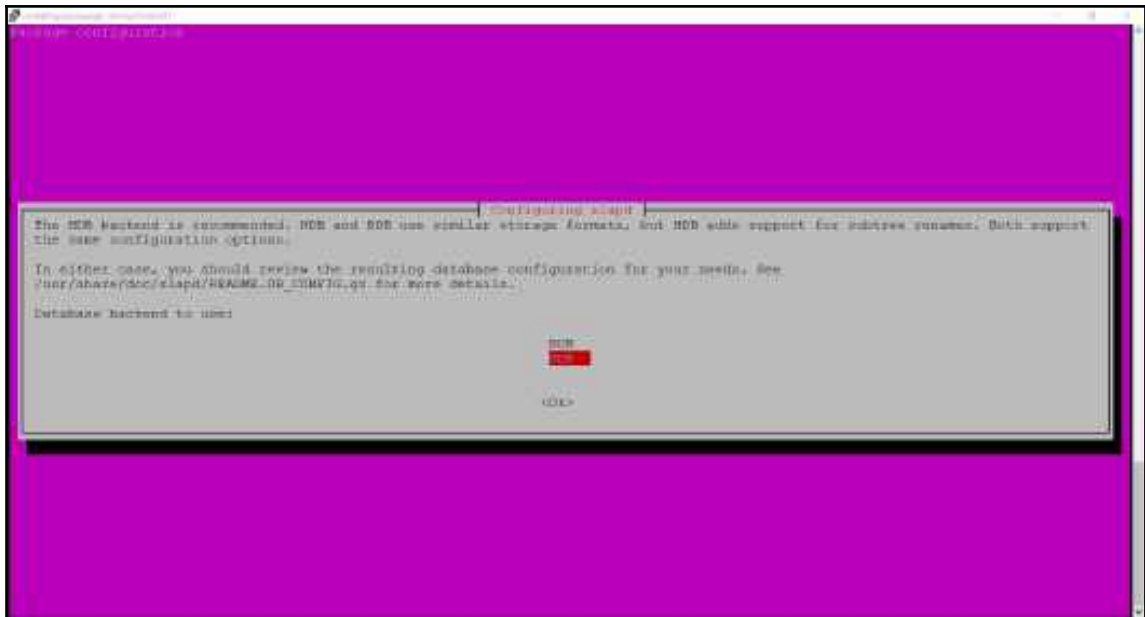
Select

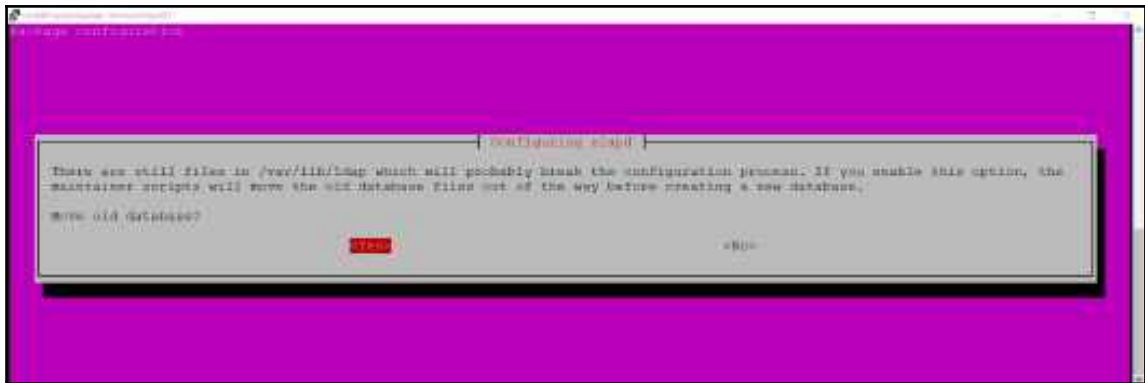












Microsoft Azure myopenldap-nsg - Inbound security rules > Add inbound security rule

Add inbound security rule

myopenldap-nsg

Advanced

* Name
HTTP ✓

* Priority ⓘ
1010

* Source ⓘ
☒ Any ☐ CIDR block ☐ Tag

Service ⓘ
HTTP ▼

* Protocol
☐ Any ☒ TCP ☐ UDP

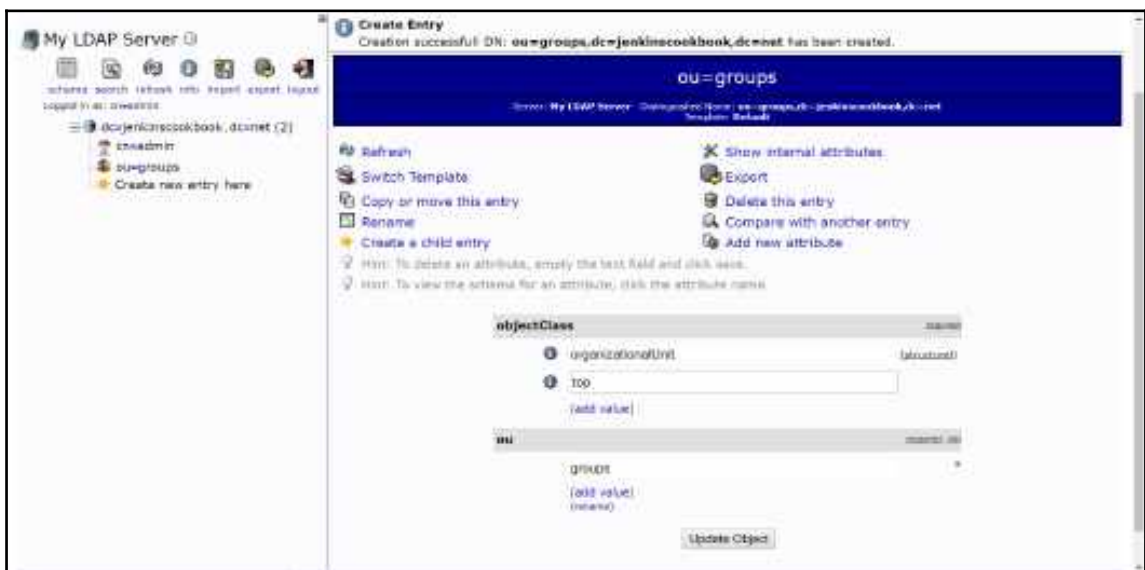
* Port range ⓘ
.80

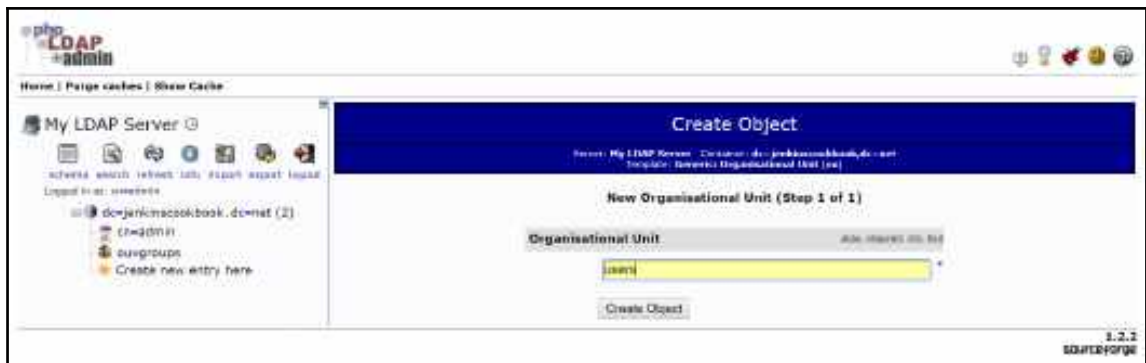
* Action
☐ Deny ☒ Allow

OK



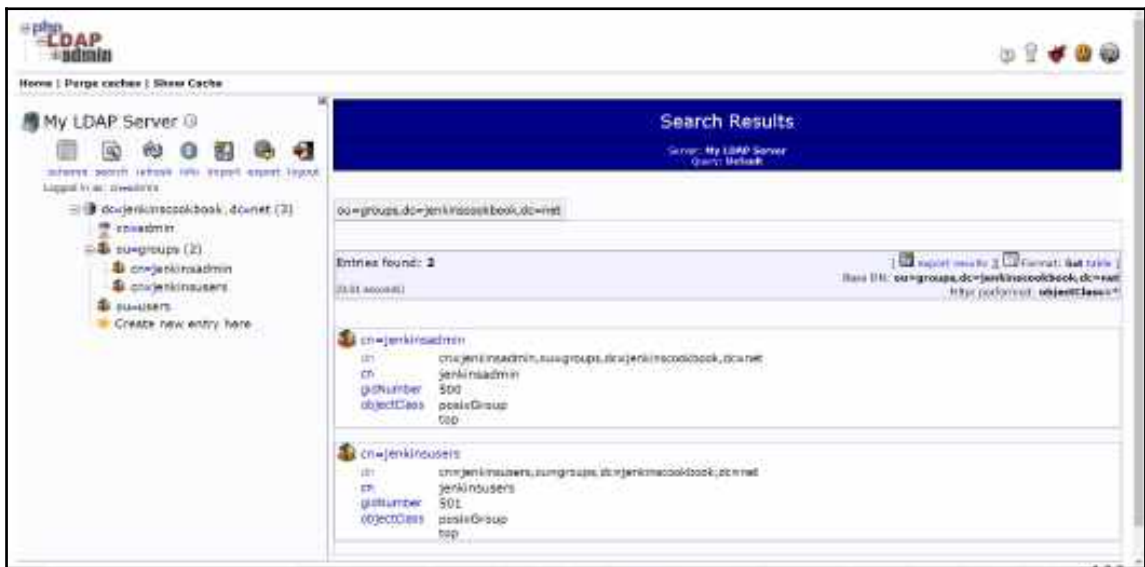


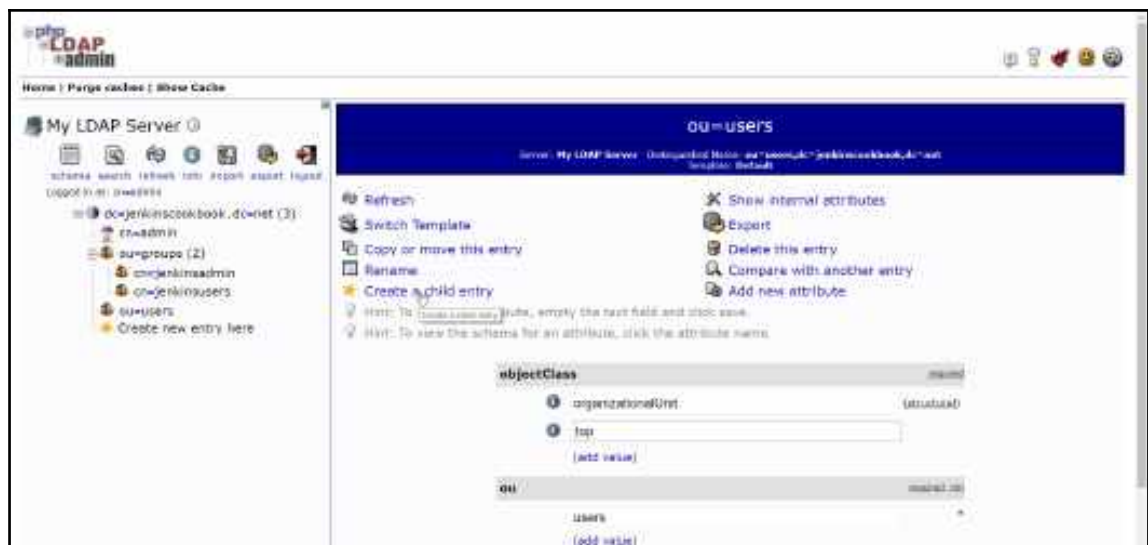


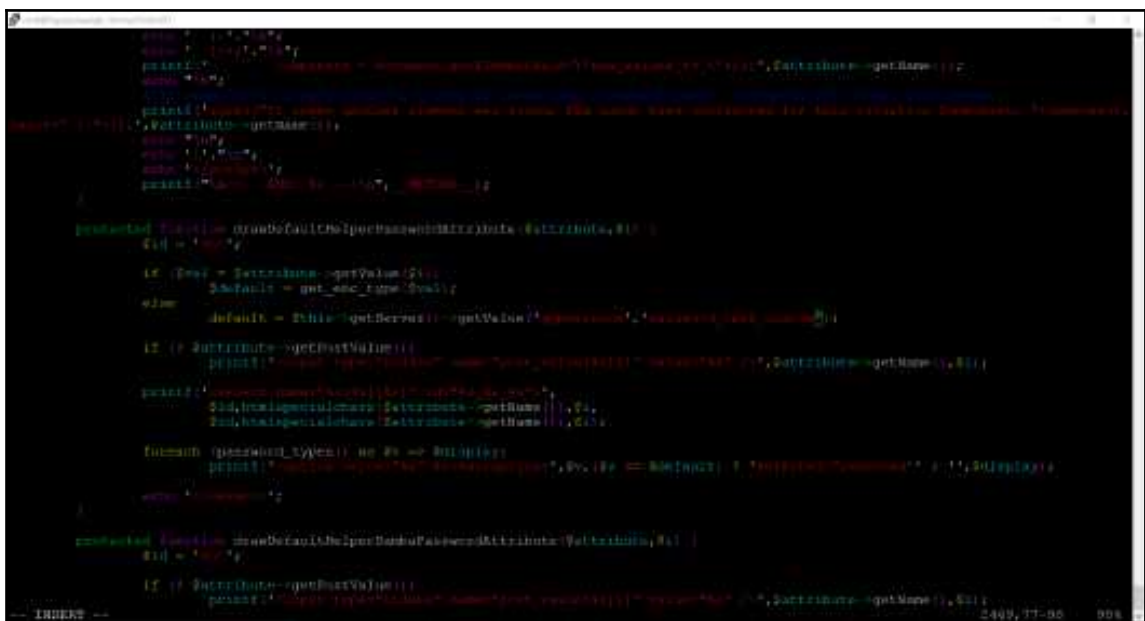
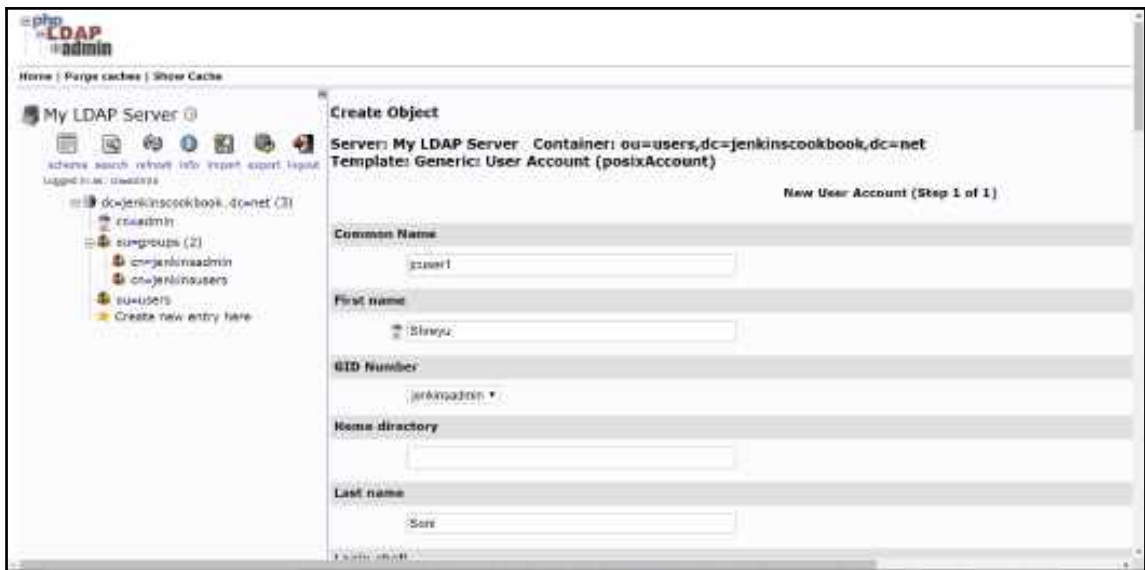












My LDAP Server

[schema](#)
[search](#)
[refresh](#)
[info](#)
[import](#)
[export](#)
[logout](#)

Logged in as cn=admin
 dc=jenkinscookbook,dc=net (3)

cn=admin
 ou=groups (2)
 cn=jenkinsadmin
 cn=jenkinsusers
 Create new entry here
 ou=users
 Create new entry here

Create Object

Server: My LDAP Server Container: dc=jenkinscookbook,dc=net
 Location: Group: User Account (posixAccount)

New User Account (Step 1 of 1)

Common Name

cn=Mitch-Soni

First name

Mitch

UID Number

jenkinsadmin

Home directory

/home/users/msoni

Last name

Soni

Login shell

/bin/sh

Password

password

password

Check password...

UID Number

1000

User ID

msoni

phpLDAPadmin

[Home](#)
[Purge caches](#)
[Show Cache](#)

My LDAP Server

[schema](#)
[search](#)
[refresh](#)
[info](#)
[import](#)
[export](#)
[logout](#)

Logged in as cn=admin
 dc=jenkinscookbook,dc=net (3)

Create LDAP Entry

Server: My LDAP Server Container: dc=jenkinscookbook,dc=net

Do you want to create this entry?

Attribute	New Value	Step
cn=Mitch-Soni,ou=users,dc=jenkinscookbook,dc=net		
Common Name	Mitch-Soni	1
First name	Mitch	2
UID Number	1000	3
Home directory	/home/users/msoni	4
Last name	Soni	5
Login shell	/bin/sh	6
objectClass	inetOrgPerson posixAccount	7
Password	password	8
UID Number	1000	9
User ID	msoni	10

[Commit](#)
[Cancel](#)

[Home](#) | [Purge cache](#) | [Show Cache](#)

My LDAP Server

[schema](#)
[search](#)
[refresh](#)
[help](#)
[import](#)
[export](#)
[logout](#)

Logged in as: cn=admin

- do-jenkinscookbook, dc=net (3)
 - cn=admin
 - cn=groups (2)
 - cn=users (14)
 - cn=Mitash Soni
 - Create new entry here

Create Object

Server: My LDAP Server | Container: dc=users,dc=jenkinscookbook,dc=net
 Template: NewEntryFromAccount (postfixAccount)

New User Account [Step 1 of 1]

Common Name

First name

GID Number

Home directory

Last name

[Home](#) | [Purge cache](#) | [Show Cache](#)

My LDAP Server

[schema](#)
[search](#)
[refresh](#)
[help](#)
[import](#)
[export](#)
[logout](#)

Logged in as: cn=admin

- do-jenkinscookbook, dc=net (3)
 - cn=admin
 - cn=groups (2)
 - cn=users (1)
 - cn=Mitash Soni
 - Create new entry here

Create LDAP Entry

Server: My LDAP Server | Container: dc=users,dc=jenkinscookbook,dc=net

Do you want to create this entry?

Attribute	New Value	Skip
cn=Shreyu Soni,dc=users,dc=jenkinscookbook,dc=net		
Common Name	Shreyu Soni	<input type="checkbox"/>
First name	Shreyu	<input type="checkbox"/>
GID Number	801	<input type="checkbox"/>
Home directory	/home/users/soni	<input type="checkbox"/>
Last name	Soni	<input type="checkbox"/>
Login shell	/bin/sh	<input type="checkbox"/>
objectClass	inetOrgPerson, posixAccount	<input type="checkbox"/>
Password	*****	<input type="checkbox"/>
UID Number	1001	<input type="checkbox"/>
User ID	soni	<input type="checkbox"/>





Jenkins > Configure Global Security

Security Realm

- ☐ Delegate to servlet container
- ☐ Jenkins' own user database
- ☒ **LDAP**
 - Server:
 - Login
 - ✓ **Authentication: successful**
 - ✓ **User ID: msoni**
 - ✓ **User Dn: cn=Mitesh Soni,ou=users,dc=jenkinscookbook,dc=net**

Jenkins > Configure Global Security

Authorization

- ☐ Anyone can do anything
- ☐ Legacy mode
- ☐ Logged-in users can do anything
- ☐ Matrix-based security
- ☒ **Project-based Matrix Authorization Strategy**

User/group	Overall	Checkout	Build	Configure	Connect	Create	Delete	Disconnect	Provide	Build	Cancel	Configure	Create	Delete
Anonymous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
msoni	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

User/group to add: **Add**

Jenkins

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Build Queue

No builds in the queue

Build Executor Status

1 idle

2 idle

All

My Dashboard

New Dashboard

PerClass

PerClass M

+

S	W	Name	Last Success	Last Failure	Last Duration	Per
		FirstAntProject	N/A	N/A	N/A	
		FirstAntExample	1 day 9 hr - #1	10 days - #1	31 sec	
		FirstJob	11 hr - #1	N/A	30 sec	
		FirstPipeline	2 mo 9 days - #20	2 mo 9 days - #10	6 min 10 sec	
		Main-PerClass	2 mo 23 days - #1	N/A	30 min	
		Main-Sample	2 mo 23 days - #1	N/A	10 sec	
		perclass-01	2 days 22 hr - #1	N/A	1 min 1 sec	
		PerClass-Create	2 mo 9 days - #21	10 days - #10	2 min 30 sec	
		PerClass-Delete	2 mo 9 days - #1	2 mo 9 days - #1	3 min 10 sec	
		PerClass-FetchTest	2 mo 9 days - #1	N/A	37 sec	
		PerClass-GetTest	2 mo 9 days - #1	N/A	1 min 0 sec	
		PerClass-Package	1 day 9 hr - #1	N/A	4 min 37 sec	

Authorization																									
<div><div><input type="radio"/> Anyone can do anything</div><div><input type="radio"/> Legacy mode</div><div><input type="radio"/> Logged-in users can do anything</div><div><input type="radio"/> Matrix-based security</div><div><input checked="" type="radio"/> Project-based Matrix Authorization Strategy</div></div>																									
User/group	Overall	Credentials					Agent					Job													
	Administer	Read	Create	Delete	Manage	Configure	Update	View	Build	Configure	Connect	Create	Delete	Disconnect	Provide	Build	Cancel	Configure	Create	Delete	Discover	Move	Read	Workspace	
msrcrt																									
Anonymous																									
msrcrt																									

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Build Queue

No builds in the queue

Build Executor Status

1 idle
2 idle

All	My Dashboard	New Dashboard	PerfView	PerfView-M		
#	W	Name	Last Success	Last Failure	Last Duration	Favorite
1	W	FirstAndroidProject	N/A	N/A	N/A	☆
2	W	FirstAndroidExample	1 day 9 hr - 80	10 days - 80	51 sec	☆
3	W	FirstJob	11 hr - 820	N/A	38 sec	☆
4	W	FirstPipeline	2 mo 0 days - 820	2 mo 0 days - 819	0 min 10 sec	☆
5	W	Main-Pipeline	2 mo 23 days - 81	N/A	30 sec	☆
6	W	Main-Pipeline	2 mo 23 days - 81	N/A	50 sec	☆
7	W	FirstBuild1	2 days 22 hr - 100	N/A	1 min 1 sec	☆
8	W	PerfView-Debug	2 mo 0 days - 811	10 days - 810	2 min 30 sec	☆
9	W	PerfView-Debug	2 mo 0 days - 81	2 mo 0 days - 81	3 min 10 sec	☆
10	W	PerfView-FirebaseTest	2 mo 0 days - 85	N/A	37 sec	☆
11	W	PerfView-LocalTest	2 mo 0 days - 81	N/A	1 min 0 sec	☆
12	W	PerfView-Package	1 day 9 hr - 87	N/A	4 min 37 sec	☆

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Build History

[Build](#)

[History for all](#)
[RSS for Subscriptions](#)

Project FirstAndroidProject

[Recent Changes](#)

Permalinks

Page generated: Aug 12, 2017 8:11:03 PM EDT | [RESTART](#) | Jenkins ver. 2.83

Filter:

Updates Available Installed Advanced

Install	Name	Version
 Active Directory plugin	Enables authentication through Active Directory	2.6

[Install without restart](#)
[Download now and install after restart](#)
 Update information obtained: 35 min ago
 [Check now](#)

Configure Global Security

☒ Enable security

Disable remember me ☐

Access Control

Security Realm

☒ Active Directory

☐ Specify custom Active Directory domain name

Configure Global Security

☒ Enable security

Disable remember me ☐

Access Control

Security Realm

☒ Active Directory

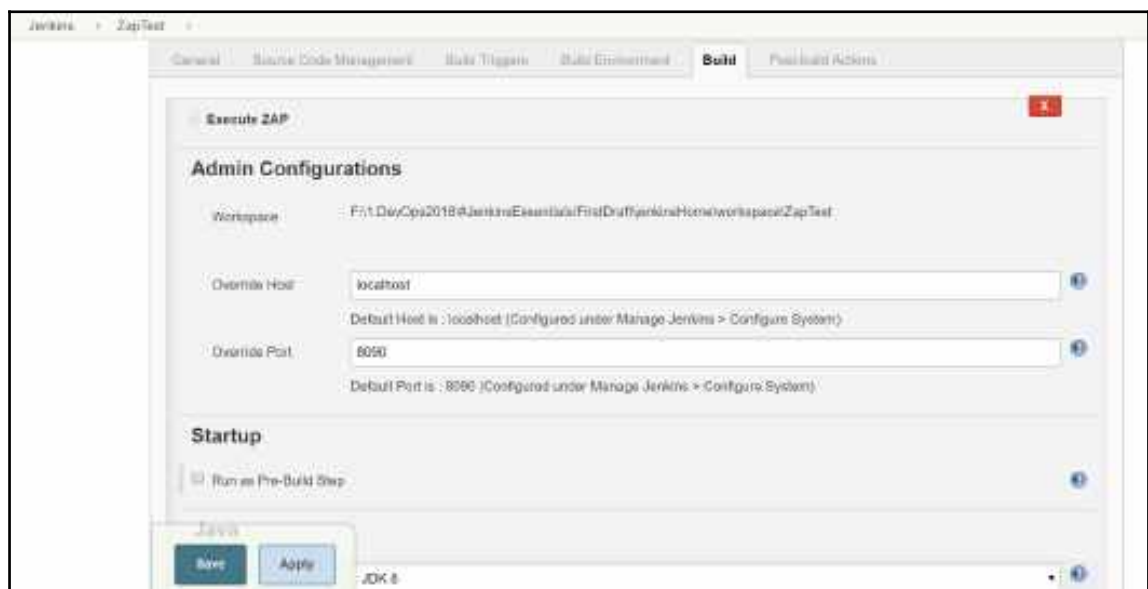
☒ Specify custom Active Directory domain name

Domains

Domain Name	<input type="text" value="xxxx.xxxx.com"/>
Domain controller	<input type="text"/>
Site	<input type="text"/>
Bind DN	<input type="text"/>
Bind Password	<input type="password"/>

> New Volume (F:) > 1.DevOps2016 > #JenkinsEssentials > FirstDraft > jenkinsHome > workspace > ZapTest >

Name	Date modified	Type	Size
logs	27-07-2017 10:02	File folder	
reports	27-07-2017 10:02	File folder	
TestZ.session	27-07-2017 10:01	SESSION File	1 KB
TestZ.session.data	27-07-2017 10:02	DATA File	8,192 KB
TestZ.session.properties	27-07-2017 10:02	PROPERTIES File	1 KB
TestZ.session.script	27-07-2017 10:02	SCRIPT File	7 KB



Jenkins - ZsTest

General Source Code Management Build Triggers Build Environment **Build** Post-build Actions

Startup

☐ Run as Pre-Built Step

Java

JDK: JDK 8

Installation Method

☐ Custom Java Installation

☒ System Installed: ZAP installation Directory

Environment Variable: ZAPPROXY_HOME

Run Configurations

Advanced...

Save Apply Cancel

Jenkins - ZsTest

General Source Code Management Build Triggers Build Environment **Build** Post-build Actions

ZAP Home Directory

Path: C:\Users\Minsh\OWASP ZAP

Session Management

☐ Load Session

☒ Parallel Session

Filename: TestZ

☐ Remove External Sites

Session Properties

Context Name: jenkins[BUILD_NUMBER]

Include in Context: http://localhost:19999/jenkins

Save Apply Cancel

Jenkins - ZapTest

General Source Code Management Build Triggers Build Environment **Build** Post-build Actions

Attack Mode

Starting Point:

☒ Spider Scan

- ☒ Recurse
- ☒ Subtree Only
- Max Children to Crawl:

☒ AJAX Spider

- ☒ in Script Only

☒ Active Scan

- Policy:
- ☒ Recurse

Finalize Run

Jenkins - ZapTest

General Source Code Management Build Triggers Build Environment Build **Post-build Actions**

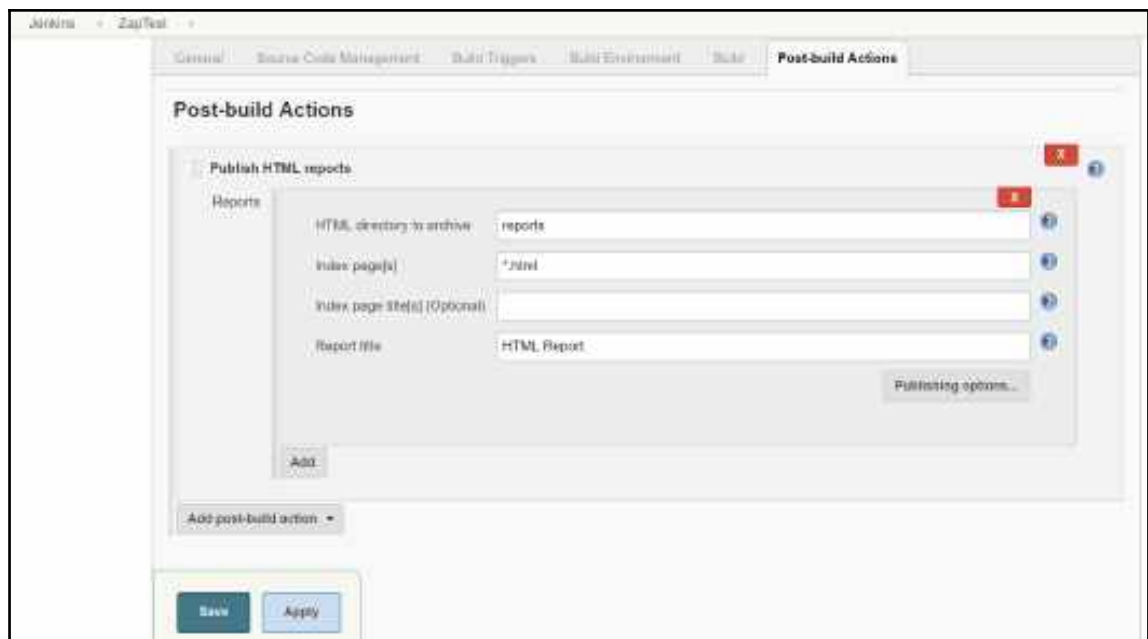
Finalize Run

☒ Generate Reports

- ☒ Clean Workspace Reports
- Filename:
- ☒ Generate Report
- Format:

HTTP ERROR 404
 Problem accessing /job/ZapTest/matrix. Reason:
 Not Found
[Viewed by jenkins 0.4.3-SNAPSHOT](#)

☐ Export Report



ZAP Scanning Report

Summary of Alerts

Risk Level	Number of Alerts
High	1
Medium	1
Low	2
Informational	0

Alert Detail

High (Medium)	SQL Injection
Description:	SQL Injection may be possible.
URL:	http://localhost:9090/petclinic/health/jackson-B47011B0E8AC2E848D2F18D707C8E7E7qury=query%22%27AND%22%22%2D%22%27
Method:	GET
Parameter:	query
Attack:	query" AND "1"=1
URL:	http://localhost:9090/petclinic/health/jackson-B47011B0E8AC2E848D2F18D707C8E7E7qury=query+AND+%2D1+-+1
Method:	GET
Parameter:	query
Attack:	query AND 1=1 --
URL:	http://localhost:9090/petclinic/health/jackson-B47011B0E8AC2E848D2F18D707C8E7E7qury=query+AND+%2D1+-+
Method:	GET

Chapter 04: Improving Code Quality

> New Volume (F:) > #A.Books > #JenkinsCookBook > sonarqube-6.3.1 > bin > windows-x86-64 >			
Name	Date modified	Type	Size
lib	01-08-2017 08:31	File folder	
InstallNTService.bat	11-04-2017 13:55	Windows Batch File	2 KB
StartNTService.bat	11-04-2017 13:55	Windows Batch File	2 KB
StartSonar.bat	11-04-2017 13:55	Windows Batch File	2 KB
StopNTService.bat	11-04-2017 13:55	Windows Batch File	2 KB
UninstallNTService.bat	11-04-2017 13:55	Windows Batch File	2 KB
wrapper.exe	11-04-2017 13:39	Application	216 KB

```
F:\#A.Books\#JenkinsCookBook\sonarqube-6.3.1\bin\windows-x86-64\StartSonar.bat
wrapper --> wrapper Started as Console
wrapper
  launching a JVM...
jvm 1 | wrapper (Version 3.2.3) http://wrapper.tanukisoftware.org
jvm 1 | Copyright 1999-2006 Tanuki Software, Inc. All Rights Reserved.
jvm 1 |
jvm 1 | 2017.08.01 08:35:31 INFO app[[[o.s.i.AppFileSystem] Cleaning or creating temp directory F:\#A.Books\#JenkinsCookBook\sonarq
  ube-6.3.1\temp
jvm 1 | 2017.08.01 08:35:33 INFO app[[[o.s.p.m.JavaProcessLauncher] launch process[es]: C:\Program Files\Java\jre1.8.0_111\bin\java
  -Djava.awt.headless=true -Xms16 -Xms256m -Xss256k -Djna.nosys=true -XX:+UseParNewGC -XX:+UseConcMarkSweepGC -XX:CMSInitiatingOccupancy
  Fraction=75 -XX:+UseCMSInitiatingOccupancyOnly -XX:+HeapDumpOnOutOfMemoryError -Djava.io.tmpdir=F:\#A.Books\#JenkinsCookBook\sonarqube-
  6.3.1\temp -javaagent:C:\Program Files\Java\jre1.8.0_111\lib\management-agent.jar -cp ./lib/common/*;./lib/search/* org.sonar.search.Se
  archServer F:\#A.Books\#JenkinsCookBook\sonarqube-6.3.1\temp\sq-process2517221991847779687\properties
jvm 1 | 2017.08.01 08:36:48 INFO app[[[o.s.p.m.Monitor] Process[es] is up
jvm 1 | 2017.08.01 08:36:48 INFO app[[[o.s.p.m.JavaProcessLauncher] launch process[web]: C:\Program Files\Java\jre1.8.0_111\bin\jav
  a -Djava.awt.headless=true -Dfile.encoding=UTF-8 -Xms512m -Xms128m -XX:+HeapDumpOnOutOfMemoryError -Djava.io.tmpdir=F:\#A.Books\#Jenkins
  CookBook\sonarqube-6.3.1\temp -javaagent:C:\Program Files\Java\jre1.8.0_111\lib\management-agent.jar -cp ./lib/common/*;./lib/server/*
  ;F:\#A.Books\#JenkinsCookBook\sonarqube-6.3.1\lib\jdbc\h2\h2-1.3.176.jar org.sonar.server.app.WebServer F:\#A.Books\#JenkinsCookBook\s
  onarqube-6.3.1\temp\sq-process5828793299341722258\properties
jvm 1 | 2017.08.01 08:37:34 INFO app[[[o.s.p.m.Monitor] Process[web] is up
jvm 1 | 2017.08.01 08:37:34 INFO app[[[o.s.p.m.JavaProcessLauncher] launch process[ce]: C:\Program Files\Java\jre1.8.0_111\bin\java
  -Djava.awt.headless=true -Dfile.encoding=UTF-8 -Xms512m -Xms128m -XX:+HeapDumpOnOutOfMemoryError -Djava.io.tmpdir=F:\#A.Books\#Jenkins
  CookBook\sonarqube-6.3.1\temp -javaagent:C:\Program Files\Java\jre1.8.0_111\lib\management-agent.jar -cp ./lib/common/*;./lib/server/*;
  ./lib/ce/*;F:\#A.Books\#JenkinsCookBook\sonarqube-6.3.1\lib\jdbc\h2\h2-1.3.176.jar org.sonar.ce.app.CeServer F:\#A.Books\#JenkinsCookBo
  ok\sonarqube-6.3.1\temp\sq-process7639749935419294327\properties
jvm 1 | 2017.08.01 08:37:51 INFO app[[[o.s.p.m.Monitor] Process[ce] is up
jvm 1 | 2017.08.01 08:37:51 INFO app[[[o.s.application.App] SonarQube is up
```

Updates Available Installed Advanced				
Enabled	Name ↓	Version	Previously installed version	Uninstall
<input type="checkbox"/>	Query plugin This allows other plugins to use jQuery in UI.	1.11.2-0		Uninstall
<input type="checkbox"/>	Maven Integration plugin This plug-in provides, for better and for worse, a deep integration of Jenkins and Maven. Automatic triggers between projects depending on SNAPSHOTs, automated configuration of various Jenkins publishers (JUnit, ...).	2.15.1		Uninstall
<input type="checkbox"/>	Pipeline: Groovy Flexible execution engine based on configuration parsing style transformation of Groovy scripts.	2.34	Downgrade to 2.30	Uninstall
<input checked="" type="checkbox"/>	Sonar Quality Gates Plugin Fails the build whenever the Quality Gates criteria in the Sonar S-Site analysis aren't met (the project Quality Gates status is different than "Passed").	1.0.4		Uninstall
<input checked="" type="checkbox"/>	SonarQube Scanner for Jenkins This plugin allows an easy integration of SonarQube , the open source platform for Continuous Inspection of code quality.	2.6.1		Uninstall

[sonarqube](#)
[Project](#)
[Issues](#)
[Rules](#)
[Quality Profiles](#)
[Quality Gates](#)

[Log in](#)
[Test documentation](#)

2

Projects Analyzed

44

Bugs

0

Vulnerabilities

70

Code Smells

Multi-Language

20+ programming languages are supported by SonarQube thanks to our in-house code analyzers including:

Java

C/C++

C#

CODR

ABAP

HTML

W3C

JavaScript

Objective C

XML

VB.NET

PL/SQL

Flex

Python

GoLang

PHP

Swift

Visual Basic

Ruby

Quality Model

Bugs

flag bad code that is dramatically wrong or highly likely to produce unexpected behavior

Vulnerabilities

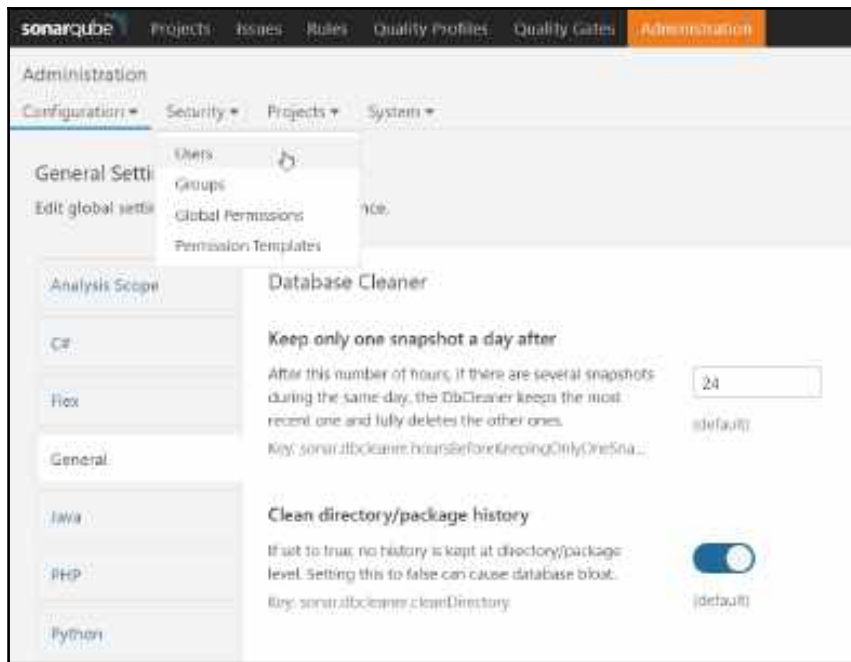
are used to code that is potentially vulnerable to exploitation by hackers

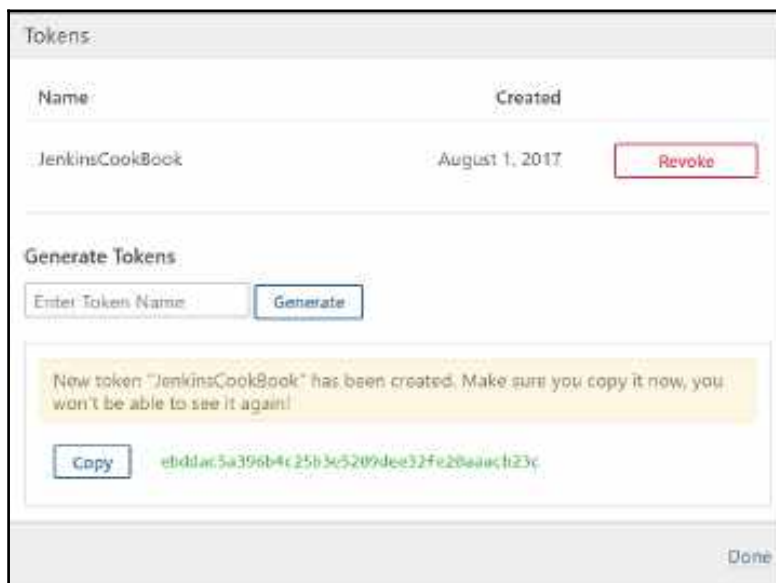
Code Smells

will confuse maintainers or slow them down. They are measured primarily in terms of the time they will take to fix.

Log In to SonarQube

[Log In](#)
[Cancel](#)





	SCM Accounts	Groups	Tokens	
	Administrator admin	sonar-administrators sonar-users	1 	 

SonarQube servers

Environment variables

☐ Enable injection of SonarQube server configuration as build environment variables
If checked, job administrators will be able to inject a SonarQube server configuration as environment variables in the build.

Name

Sonarqube6.3

Server URL

http://localhost:9000/

(Default is http://localhost:9000)

Server version

5.3 or higher

Configuration fields depend on the SonarQube server version.

Server authentication token

SonarQube authentication token. Mandatory when anonymous access is disabled.

SonarQube account login

SonarQube account used to perform analysis. Mandatory when anonymous access is disabled. No longer used since SonarQube 5.3.

SonarQube account password

SonarQube account used to perform analysis. Mandatory when anonymous access is disabled. No longer used since SonarQube 5.3.

Advanced...

Delete SonarQube

SonarQube Scanner

SonarQube Scanner Installations

SonarQube Scanner

Name

SonarQube Scanner 3.0.3

☒ Install automatically

Install from Maven Central

Version

SonarQube Scanner 3.0.3.778

Delete Installer

Add Installer

Add SonarQube Scanner

Delete SonarQube Scanner

List of SonarQube Scanner installations on this system

sonarqube

ProjectsIssuesRulesQuality ProfilesQuality GatesAdministration

Administration

ConfigurationSecurityProjectsSystem

General Settings

Edit global settings for this SonarQube instance

Analysis Scope

CA

Flex

General

Java

PHP

Python

Scanner for MSBuild

SCM

SCM

Disable the SCM Sensor

Disable the retrieval of blame information from Source Control Manager

Key: sonar.scn.disabled

☒

Reset

Default: false

SVN

Passphrase

Optional passphrase of your private key file

Key: sonar.svn.passphrase.secured

Set

Username

Username to be used for SVN server or SVN+SSH authentication

[100]

