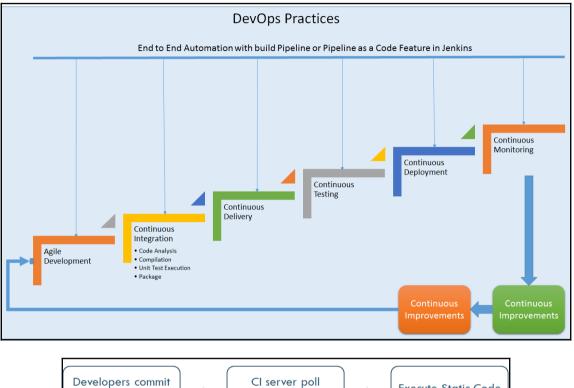
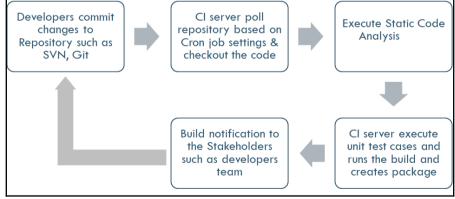
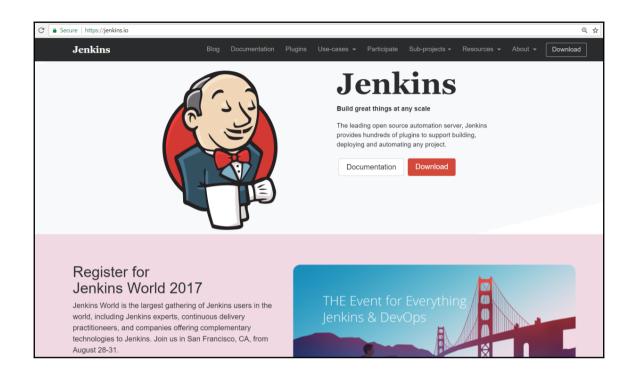
Chapter 01: Exploring Jenkins







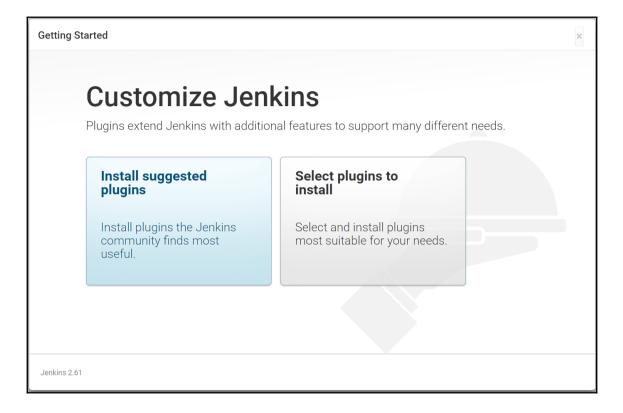
Jenkins	Blog	Documentation	Plugins	Use-cases 👻	Participate	Sub-projects -	Resources 👻	About 👻	Download
	Getting started v The Jenkins project produces two rel			pending on your	organization's r	needs, one may be	e preferred over th	ne other.	
	Both release lines are distributed as	.war files, native p	ackages, in	stallers, and Doc	ker containers.				
	Long-term Support (LTS (Long-Term Support) releases the stream of regular releases as the period. Learn more Changelog Upgrade Guide Past	are chosen every 1 he stable release for		users ar			ver bug fixes and f	features to	
	Deploy Jenkins 2.46.3			Dowr	load Jenkins	2.63 for:			
				Arch	Linux				
	Download Jenkins 2.46.3 for:			Dock	er				
	Docker			Free	BSD				
	FreeBSD			Gent	00				
	Gentoo			Mac	OS X				
	Mac OS X			Oper	BSD				
	OpenBSD			open	SUSE				
	openSUSE			Red	Hat/Fedora/Cer	ntOS			
	Red Hat/Fedora/CentOS			Ubur	tu/Debian				
	Ubuntu/Debian			Wind	ows				
	Windows			Gene	ric Java packa	ge (.war)			
	Generic Java package (.war)								

🤰 System			- a ×
← → → ↑ 🥭 > Control F	Panel > All Control Panel Items > System		✓ Ŭ Search Control Panel 𝒫
Control Panel Home	View basic information about your computer		0
 Device Manager Remote settings System protection Advanced system settings 	Windows edition Windows 10 Home Single Language © 2016 Microsoft Corporation. All rights reserved. System	System Properties X Computer Name Hardware Advanced System Protection Remote You must be logged on as an Administrator to make most of these changes. Performance Valual effects, processor scheduling memory usage, and valual memory	Windows 10
	Installed memory (RAM): 4.00 GB System type: 64-bit Operating System, x64-based processor Pen and Touch: No Pen or Touch Input is available for this Display	Settings. User Profiles Desktop settings related to your sign in Settings.	Lenovo. Support Information
	Computer name, domain, and workgroup settings Computer name: LAPTOP-FQBISR2E Full computer name: LAPTOP-FQBISR2E Computer description: Workgroup: WORKGROUP Windows activation	Startup and Recovery System startup, system failure, and debugging information Settings.	Change settings
	Windows is activated Read the Microsoft Software License Terms Product ID: 00327-30456-61283-AAOEM	OK Cancel Apply	Change product key
See also Security and Maintenance			

🤰 System		
🔶 🚽 🗸 🛧 🎐 🔶 Control P	anel > All Control Panel Items > System	
Control Panel Home	View basic information about your	computer
 Device Manager Remote settings System protection 	Windows edition Windows 10 Home Single Language	Environment Variables × ×
 Advanced system settings 	© 2016 Microsoft Corporation. All rights re	Variable Value hanges. DOCKER_TOOLBOX_INSTA C:\Program Files\Docker Toolbox OneDrive C:\Users\Mitesh\OneDrive emory
	Processor: Intel(R) Core(1 Installed memory (RAM): 4.00 GB System type: 64-bit Operati	M Path %USERPROFILE%\AppData\Local\Microsoft\WindowsApps;;C TEMP %USERPROFILE%\AppData\Local\Temp timgs
	Pen and Touch: No Pen or Tou	ch I
	Computer name, domain, and workgroup setti	
	Computer name: LAPTOP-FQ8/S Full computer name: LAPTOP-FQ8/S Computer description: Workgroup: WORKGROUP	
	Windows activation	Browse Directory Browse File OK Cancel
	Product ID: 00327-30456-61283-AAOEM	OS Windows_NT Path C:\ProgramData\Oracle\Java\Javapath:C:\Windows\system32; PATHEXT .COM;EXE;BAT;CMD;VBS;VBE;JS;JSE;WSF;WSH;MSC New Edit
		OK Cancel

📧 C\Windows\System32\cmd.exe - jarajar jenkins.war		0)	<
Microsoft Windows [Version 10.0.14393] (c) 2016 Microsoft Corporation. All rights reserved.			^
F:\#JenkinsEssentials\FirstDraft>java -jar jenkins.war Running from: F:\#JenkinsEssentials\FirstDraft\jenkins.war webroot: Envylars.masterEnvylars.get("2DHKIN5_NOME")) @[33mMay 20, 2017 8:07:36 PM Main delateWinstoneTempContents WARNING: Failed to delete the temporary Winstone file C:\Users\Mitesh\AppData\Local\Temp\winstone\jenkins.war @[OmMay 20, 2017 8:07:36 PM org.eclipse.jetty.util.log.iog initialized INFO: Logging initialized @H32ms to org.eclipse.jetty.util.log.JavaUtilLog May 20, 2017 8:07:36 PM winstone.logger logInternal INFO: Beginning extraction from war file @J33mMay 22, 2017 8:07:40 PM org.eclipse.jetty.server.handler.ContextMandler setContextPath			
Maxima 2 by the second			
©[@mMay 20, 2017 8:07:40 PM org.eclipse.jetty.server.Server doStart INFO: ietty-9.4.z-SNAPSHOT			
May 26, 2017 8:07:43 PM org.eclipse.jetty.webapp.StandardDescriptorProcessor visitServlet INFO: NO 35P Support for /, did not find org.eclipse.jetty.jsp.Jetty3sp5ervlet May 20, 2017 8:07:43 PM org.eclipse.jetty.server.session.DefaultSessionIdManager doStart INFO: DefaultSessionIdManager workerNamesnode0 May 20, 2017 8:07:43 PM org.eclipse.jetty.server.session.DefaultSessionIdManager doStart INFO: No SessionScavenger set, using defaults May 20, 2017 8:07:43 PM org.eclipse.jetty.server.session.HouseKeeper startScavenging INFO: Scavenging every 660000m Jenkins home directory: F:\#JenkinsEssentials\FirstDraft\jenkinsHome found at: EnvVars.masterEnvVars.get("JENKINS_HOME") May 20, 2017 8:07:45 PM org.eclipse.jetty.cerver.handler.contextHandler doStart			
may 20, 201,3:0:0/13:pm org.elipse.jetty.server.nanuler.contextuanuler dostart INFO: Started w.@ca@256d(/,file://)F:%Z3BenkinsEssentials/FirstDraft/jenkinsHome/war/,AVAILABLE}{F:\#JenkinsEssentials\FirstDraft\jenkinsHome\war May 20, 2017 3:07:45 PM org.eclipse.jetty.server.AbstractConnector doStart INFO: Started ServerConnector@58670304(TTP21.1)(http1:1]}(0.0.0.0:8080} May 20, 2017 3:07:45 PM org.eclipse.jetty.server.Server doStart INFO: Started @10207m	}		
May 20, 2017 8 [°] :07:45 PM winstone.Logger logInternal INFO: Winstone Servlet Engine v4.0 running: controlPort=disabled May 20, 2017 8 [°] :07:46 PM jenkins.InitReactorRunner\$1 onAttained INFO: Started initialization May 20, 2017 8:07:46 PM jenkins.InitReactorRunner\$1 onAttained INFO: Listed all plugins			
May 28, 2017 8:07:47 PM jenkins.InitReactorRunner\$1 onAttained K INFO: Prepared all plugins May 28, 2017 8:07:47 PM jenkins.InitReactorRunner\$1 onAttained			~

A genkins [lenkins] x	▲	o ×
← → ♂ 🕜 localhost8080/login?from=%2F	Q P 🕁 🖊	00:
Getting Started		
Unlock Jenkins		
To ensure Jenkins is securely set up by the administrator, a password has been written to the log (not sure where to find it?) and this file on the server:		
F:\#JenkinsEssentials\FirstDraft\jenkinsHome\secrets\initialAdminPassword		
Please copy the password from either location and paste it below.		
Continue		



Getting Started				
Get	ting Star	ted		
✓ Folders Plugin	✓ OWASP Markup Formatter Plugin	🗘 build timeout plugin	Credentials Binding Plugin	<pre>** bouncycastle API Plugin Folders Plugin ** Structs Plugin</pre>
🗘 Timestamper	Workspace Cleanup Plugin	🗘 Ant Plugin	🗘 Gradle Plugin	** JUnit Plugin OWASP Markup Formatter Plugin PAM Authentication plugin
Pipeline	GitHub Branch Source Plugin	Pipeline: GitHub Groovy Libraries	Pipeline: Stage View Plugin	** Windows Slaves Plugin ** Display URL API Jenkins Mailer Plugin
🗘 Git plugin	🔇 Subversion Plug-in	🚫 SSH Slaves plugin	 Matrix Authorization Strategy Plugin 	LDAP Plugin ** Token Macro Plugin ** External Monitor Job Type Plugin
 PAM Authentication plugin 	✓ LDAP Plugin	Email Extension Plugin	✓ Mailer Plugin	** Icon Shim Plugin Matrix Authorization Strategy Plugin ** Script Security Plugin ** Matrix Project Plugin
				Jenkins build timeout plugin
				** - required dependency
Jenkins 2.61				

Getting Started				
Ge	tting Star	ted		
✓ Folders Plugin	✓ OWASP Markup Formatter Plugin	✓ build timeout plugin	 Credentials Binding Plugin 	** Credentials Plugin ** Pipeline: Step API ** Plain Credentials Plugin
✓ Timestamper	✓ Workspace Cleanup Plugin	✓ Ant Plugin	✓ Gradle Plugin	Credentials Binding Plugin Timestamper ** SCM API Plugin
💭 Pipeline	GitHub Branch Source Plugin	Pipeline: GitHub Groovy Libraries	Pipeline: Stage View Plugin	<pre>** Pipeline: API ** Pipeline: Supporting APIs ** Durable Task Plugin</pre>
💋 Git plugin	💭 Subversion Plug-in	SSH Slaves plugin	 Matrix Authorization Strategy Plugin 	** Pipeline: Nodes and Processes ** Resource Disposer Plugin Jenkins Workspace Cleanup Plugin
 PAM Authentication plugin 	✓ LDAP Plugin	💭 Email Extension Plugin	✓ Mailer Plugin	Ant Plugin Gradle Plugin ** Pipeline: Milestone Step
				** JavaScript GUI Lib: jQuery bundles (jQuery and jQuery UI) plugin ** Pipeline: Input Step ** JavaScript GUI Lib: ACE Editor bundle plugin ** Pipeline: SCM Step ** Pipeline: Groovy
				** - required dependency

P

Getting Sta	arted					
	Creat	e First A	Admin	User		
	Username:	admin				
	Password:	•••••				
	Confirm password:	•••••				
	Full name:	admin				
	E-mail address:	@C(
Jenkins 2.61					Continue as admin	Save and Finish

Getting Started	
Jenkins is ready!	
Your Jenkins setup is complete.	
Jenkins 2.61	

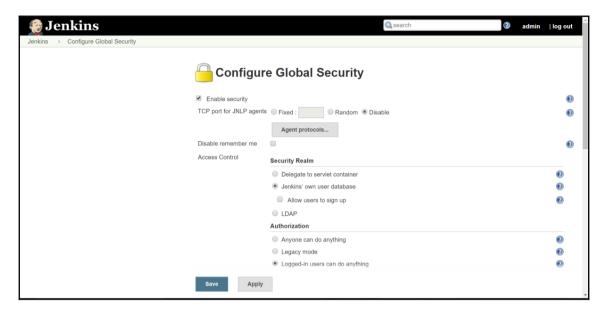
👰 Jenkins			🔍 search	2) admin	log out
Jenkins >				ENABLE AU	TO REFRESH
쯜 New Item				2 add	description
鵗 People		Welcome to Jenkins!			
Build History		Please create new jobs to get started.			
🐡 Manage Jenkins					
🍓 My Views					
A Credentials					
Build Queue	-				
No builds in the queue.					
Build Executor Status	-				
1 Idle					
2 Idle					

🔮 Jenkins		🔍 search 👔 admin log out
Jenkins >		ENABLE AUTO REFRESH
쯜 New Item		Manage Jenkins
Build History		Configure System Configure global settings and paths.
Manage Jenkins My Views		Configure Global Security Secure Jenkins; define who is allowed to access/use the system.
A Credentials		Configure Credentials Configure the credential providers and types
Build Queue	-	Global Tool Configuration Configure tools, their locations and automatic installers.
No builds in the queue.		Reload Configuration from Disk Discard all the loaded data in memory and reload everything from file system. Useful when you modified config files directly on disk.
Build Executor Status 1 Idle 2 Idle		Manage Plugins Add, remove, disable or enable plugins that can extend the functionality of Jenkins.
		System Information Displays various environmental information to assist trouble-shooting.
		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 Ienkins >> Plugin Manager		Q. 4	search	() admin	n logout
 Back to Dashboard Manage Jenkins 				Filter:	
🛊 Update Center	Updates				
	Enabled	Name ↓	Version	Previously installed version	Uninstall
	۲	Ant Plugin Adds Apache Ant support to Jenkins	<u>1.5</u>		Uninstall
	Ø	Authentication Tokens API Plugin This plugin provides an API for converting credentials into authentication tokens in Jenkins.	<u>1.3</u>		
	Ø	bouncycastle API Plugin This plugin provides an stable API to Bouncy Castle relate	d tasks.		
	¥.	Branch API Plugin This plugin provides an API for multiple branch based proje	ects. 2.0.9		
	×	build timeout plugin This plugin allows builds to be automatically terminated aft specified amount of time has elapsed.	er the <u>1.18</u>		Uninstall
	Ø	Credentials Binding Plugin Allows credentials to be bound to environment variables fo from miscellaneous build steps.	r use <u>1.11</u>		
		Credentials Plugin This plugin allows you to store credentials in Jenkins.	<u>2.1.13</u>		
		Display URL API			

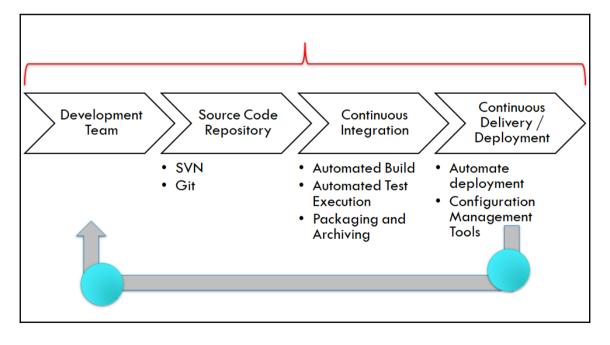
🔮 Jenkins						Q searc	h		admin log out
Jenkins > Nodes >								i	ENABLE AUTO REFRESH
🛧 Back to Dashboard		S	Name ↓	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
🎆 Manage Jenkins			master	Windows 10 (amd64)	In sync	231.76 GB	10.66 GB	248.36 GB	Oms
New Node			Data obtained	27 min	27 min	27 min	27 min	27 mir	n 27 min
Tonfigure									Refresh status
Build Queue	-								
No builds in the queue.									
Build Executor Status	-								
1 Idle 2 Idle									

🧕 Jenkins			🔍 search 🕜 admin	log out
Jenkins configuration				
쯜 New Item		Home directory	F:\#JenkinsEssentials\FirstDraft\jenkinsHome	0
🌯 People		Workspace Root Directory	\${JENKINS_HOME}/workspace/\${ITEM_FULLNAME}	0
Build History		Build Record Root Directory	\${ITEM_ROOTDIR}/builds	
🐝 Manage Jenkins 🍓 My Views 强 Credentials		System Message		0
Build Queue	-		Plain text] Preview	
No builds in the queue.		# of executors	2	
Build Executor Status	-	Labels		
1 Idle 2 Idle		Usage	Use this node as much as possible	• 🕡
		Quiet period	5	0
		SCM checkout retry count	0	
		Restrict project paming		
		Save Apply		Ţ



🧕 Jenkins			🔍 search 🕜	admin	log out
Jenkins					
摿 Back to Dashboard	S .				
💥 Manage Jenkins	K Global Tool	Configuration	on		
	Maven Configuration				
	Default settings provider	Use default maven setti	ngs		•
	Default global settings provider	Use default maven glob	al settings		•
	JDK				
	JDK installations	Add JDK			
		List of JDK installations on this s	ystem		
	Git				
	Git installations	Git			
		Name	Default		
		Path to Git executable	git.exe		0
					5
	Save Apply				

🎨 Jenkins		🔍 search 🕜 admin I	log out
Jenkins → Plugin Manager			
🛧 Back to Dashboard	Updates Ava	ailable Installed Advanced	- 1
🐝 Manage Jenkins _캮 Update Center	HTTP Pro	oxy Configuration	
	Server		0
	Port		0
	User name	admin	0
	Password		
	No Proxy Host		0
		Advanced	
	Submit		

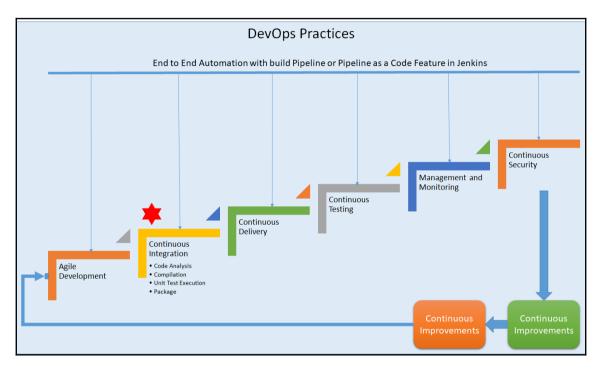


🚾 C:\Windows\System32\cmd.exe - jar jenkins.war	- a ×
oot of factory hierarchy	^
May 20, 2017 8:07:56 PM org.springframework.context.support.AbstractApplicationContext prepareRefresh	
INFO: Refreshing org.springframework.web.context.support.StaticWebApplicationContext@18078206: display name [Root WebApplicationContext]; startup d	ate [Sat Ma
y 20 20:07:56 IST 2017]; root of context hierarchy	
May 20, 2017 8:07:56 PM org.springframework.context.support.AbstractApplicationContext obtainFreshBeanFactory	
INFO: Bean factory for application context [org.springframework.web.context.support.StaticWebApplicationContext@18078206]: org.springframework.bean	s.factory.s
upport.DefaultListableBeanFactory@62f26c47	
May 20, 2017 8:07:56 PM org.springframework.beans.factory.support.DefaultListableBeanFactory preInstantiateSingletons	
INFO: Pre-instantiating singletons in org.springframework.beans.factory.support.DefaultListableBeanFactory@62f26c47: defining beans [filter,legacy]	; root of f
actory hierarchy	
May 20, 2017 8:07:56 PM jenkins.install.SetupWizard init	
INFO:	

Jenkins initial setup is required. An admin user has been created and a password generated.	
Please use the following password to proceed to installation:	
75495e17d897498b8dbb53d27121080a	
This may also be found at: F:\#JenkinsEssentials\FirstDraft\jenkinsHome\secrets\initialAdminPassword	
mis may also be found at. F. (#senklinsessentials(Firstoralt(jenklinshome(setrets(initialkuminrassword)	

May 20, 2017 8:08:09 PM hudson.model.UpdateSite updateData	
INFO: Obtained the latest update center data file for UpdateSource default	
May 20, 2017 8:08:09 PM hudson.WebAppMain\$3 run	
INFO: Jenkins is fully up and running	
May 20, 2017 8:08:10 PM hudson.model.UpdateSite updateData	
INFO: Obtained the latest update center data file for UpdateSource default	
May 20, 2017 8:08:12 PM hudson.model.DownloadService\$Downloadable load	
INFO: Obtained the updated data file for hudson.tasks.Maven.MavenInstaller	
May 20, 2017 8:08:15 PM hudson.model.DownloadService\$Downloadable load	
INFO: Obtained the updated data file for hudson.tools.JDKInstaller	
May 20, 2017 8:08:15 PM hudson.model.AsyncPeriodicWork\$1 run	
INFO: Finished Download metadata. 20,242 ms	~

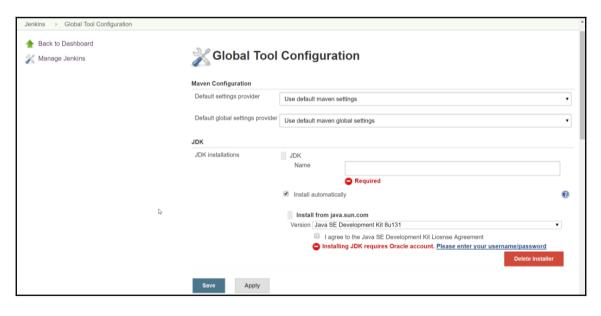
Chapter 02: Installation and Configuration of Code Repository and Build Tools



Note: Applications Place	es System ຢ 👩	2		4)
	j	vm - File Browser		_ = ×
<u>File Edit View Go</u>	Bookmarks Tabs Hel	р		
🗲 Back 🗸 🏟 For	ward 🗸 🛧 😣 😫	A 📃 🖬		
Location: /usi	r/lib/jvm		/ 🔍 100%	Q Icon View ↓
Places → X a root Desktop File System	java-1.5.0-gcj-1.5.0. 0	java-1.6.0-openjdk- 1.6.0.0.x86_64	java-1.7.0-openjdk- 1.7.0.3.x86_64	jre
Network Trash Documents Music Pictures	jre-1.5.0	jre-1.5.0-gcj	jre-1.6.0	jre-1.6.0-openjdk. x86_64
i Videos Downloads	jre-1.7.0	jre-1.7.0-openjdk. x86_64	jre-gcj	jre-openjdk

📄 .bash_profile 🗶	
⊯ .bash_profile	
<pre># Get the aliases if [-f ~/.bashrc</pre>]; then
	/usr/lib/jvm/java usr/share/apache-ant-1.7.1
PATH=\$PATH:\$HOME/	bin:\$JAVA_HOME/bin:\$ANT_HOME/bin
export PATH	

			C Q Search	☆ 自 ♥	∔ กิ	9	9		- ≡
MAIN	Download Apache Maven 3.3.3								^
Welcome GET MAVEN		ts for your convenience. Use a source arch instructions given at the end of this docum	ive if you intend to build Maven yourself. Oth ent.	herwise, simply	pick a rea	dy-mad	le bina	ry	
Download	You will be prompted for a mirror - if the	he file is not found on yours, please be pat	ent, as it may take 24 hours to reach all min	rors.					
Releases History Release Notes (3.3.3)	In order to guard against corrupted d Apache Maven developers.	ownloads/installations, it is highly recomme	nded to verify the signature of the release b	undles against	the public	KEYS	used b	y the	
Release Notes (3.2.5)	Maven is distributed under the Apach	e License, version 2.0.							
Release Notes (3.1.1) Release Notes (3.0.5) All Release Notes	We strongly encourage our users to configure a Maven repository mirror closer to their location, please read How to Use Mirrors for Repositories. If you're upgrading from Maven 2.x, be sure to check the Maven 3.x compatibility notes before using this version to avoid surprises: while Maven 3 aims to be backward- compatible with Maven 2.x to the extent possible, there are still a few significant changes.								
License Security	Mirror								
IDE INTEGRATION Eclipse NetBeans	The currently selected mirror is http://mirror.cogentco.com/pub/apache/. If you encounter a problem with this mirror, please select another mirror. If all mirrors are failing, there are <i>backup</i> mirrors (at the end of the mirrors ist) that should be available. Other mirrors: http://mirror.cogentco.com/pub/apache/. If you encounter a problem with this mirror, please select another mirror. If all mirrors are failing, there are <i>backup</i> mirrors (at the end of the mirrors ist) that should be available. Other mirrors: http://mirror.cogentco.com/pub/apache/. If you encounter a problem with this mirror, please select another mirror. If all mirrors are failing, there are <i>backup</i> mirrors (at the end of the mirrors ist) that should be available.								
ABOUT MAVEN What is Maven?	You may also consult the complete list of mirrors.								
Features FAQ Support and Training	Maven 3.3.3 This is the current stable version of N	laven.							
DOCUMENTATION		Link	Checksum	Signature	•				
Maven Plugins	Maven 3.3.3 (Binary tar.gz)	apache-maven-3.3.3-bin.tar.gz	apache-maven-3.3.3-bin.tar.gz.md5	apache-m	aven-3.3.3	3-bin.ta	r.gz.as	c	
Index (category)	Maven 3.3.3 (Binary zip)	apache-maven-3.3.3-bin.zip	apache-maven-3.3.3-bin.zip.md5	apache-m	aven-3.3.	3-bin.zij	p.asc		



Global Tool Configuration Maven Configuration				
Default settings provider	Use default maven settings			

Default settings provider	Use default ma	aven settings	•
Default global settings provider	Use default ma	aven global settings	•
JDK			
JDK installations	JDK Name JAVA_HOME	JDK 8 C:\Program Files\Java\jdk1.8.0_111]
	Add JDK	matically Delete JDK	0
	List of JDK installation	ons on this system	

Jenkins				*
	Git			
	Git installations	Git		
		Name	Default	
		Path to Git executable	git.exe	0
		Install automatically		•
			Delete Gi	t
		Add Git 👻		- 1
	Gradle			- 1
	Gradle installations	Add Gradle		_
	I	List of Gradle installations on this	s system	
	Ant			
	Ant installations	Add Ant		- 1
		List of Ant installations on this sy	stem	
	Maven			- 1
	Maven installations	Add Maven		
	Save Apply			

Jenkins 🕨 Global Too	ol Configuration		
Ant			
Ant installations	Ant		
	Name	apache-ant-1.9.4	
	ANT_HOME	C:\apache-ant-1.9.4	
	Install auto	omatically	?
		Delete Ant	
	Add Ant		
	List of Ant installation	ons on this system	

Jenkins 🔸 Global Tool Co	onfiguration		•	
Maven				
Maven installations	Maven			
	Name	apache-maven-3.3.1		
	MAVEN_HOME	C:\apache-maven-3.3.1		
	Install automatically			
		Delete Maven		
	Add Maven			
	List of Maven installatio	ns on this system	_	

🧕 Jenki	ins	Search (2)	admin	log out		
Jenkins > All	Þ.					
	Enter an item name					
	FirstJob					
	» Required field					
	Freestyle project This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.					
	Pipeline Orchestrates long-running activities that can span multiple build slaves. Suitable for building pip organizing complex activities that do not easily fit in free-style job type.	pelines (formerly known as workflows) and/or				
	External Job This type of job allows you to record the execution of a process run outside Jenkins, even on a use Jenkins as a dashboard of your existing automation system.	remote machine. This is designed so that you can				
ſ	Multi-configuration project Suitable for projects that need a large number of different configurations, such as testing on mu	iltiple environments, platform-specific builds, etc.				
	OK bidet eater a container that stores nested items in it. Useful for grouping things together. Unlike vie nemespace, so you can have multiple things of the same name as long as they are in different t					

🧕 Jenki	ns		🔍 search	admin 2	log out
Jenkins ► FirstJo	ob 🕨				
	General	Source Code Management B	uild Triggers Build Environment Build Post-build Actions		
	Project na	FirstJob			
	Descriptio	n			
		[Plain text] <u>Preview</u>			
	Discard ol	ld builds	0		
	Strategy	Log Rotation	•		
		Days to keep builds			
			if not empty, build records are only kept up to this number of days		
		Max # of builds to keep	5		
			if not empty, only up to this number of build records are kept		
	Save	Apply	Advanced		

General	ource Code Management	Build Triggers	Build Environment	Build	Post-build Actions	
Source Co	ode Management					
None						
Git						
Subversion						
Build Trig	gers					
Trigger build	s remotely (e.g., from scripts	3)				
Build after of	her projects are built					0
Build periodi	cally					
Schedule	52 8 * * *					Ø
	▲ Spread load evenly Would last have run at Sa			l next run a	at Sunday, 21 May, 2017 8:52:55 AM IST.	
GitHub hook	trigger for GITScm polling					
Poll SCM	Apply					0

Gener	ral Source Code Management	Build Triggers	Build Environment	Build	Post-build Actions	
Buil	d Environment					
🗆 De	elete workspace before build starts					
🗆 Ab	ort the build if it's stuck					
🗆 Ad	ld timestamps to the Console Output	t				
🗆 Us	e secret text(s) or file(s)					?
E		ŀ <u></u>				
	xecute shell					
1.1	nvoke Ant					
	nvoke Gradle script					
	nvoke top-level Maven targets tun with timeout					
	et build status to "pending" on GitHub o	commit				
	Apply					

General So	urce Code Management	Build Triggers	Build Environment	Build	Post-build Actions		
Build							
Execute V	√indows batch command					X	0
Command	ipconfig						
	See the list of available e	nvironment variable					
		Invironment variable	<u></u>			Advanced	
Add build step	-						
Post-build	Actions						
Add post-build	laction 👻						
Save	Apply						

🔮 Jenkins		
Jenkins 🕨 FirstJob 🕨		
A Back to Dashboard Image: Status		Project FirstJob
🔁 Changes		
🛅 Workspace		
Build Now		Workspace
🚫 Delete Project		0000000
🐡 Configure		Recent Changes
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Jenkins → FirstJob → #1				
Back to Project Status	Console Output			
Changes Console Output	Started by timer Building in workspace F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstJob [FirstJob] \$ cmd /c call C:\Users\Mitesh\AppData\Local\Temp\jenkins6369707303111927477.bat			
Edit Build Information	F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstJob>ipconfig			
🚫 Delete Build	Windows IP Configuration			
	Ethernet adapter Ethernet:			
	Media State Media disconnected Connection-specific DNS Suffix . :			
	Ethernet adapter VirtualBox Host-Only Network:			
	Connection-specific DNS Suffix .: Link-local IPv6 Address : fe80::94f5:4e06:3cf0:6855%17 IPv4 Address 192.168.56.1 Subnet Mask Default Gateway			
	Ethernet adapter VirtualBox Host-Only Network #2:			

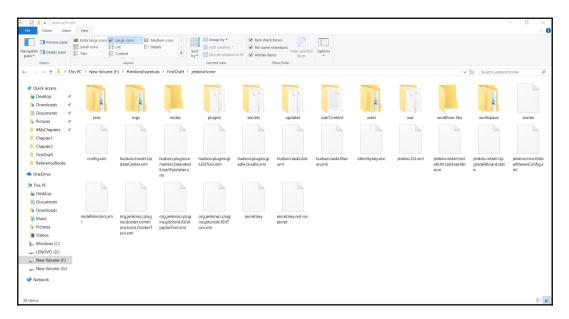
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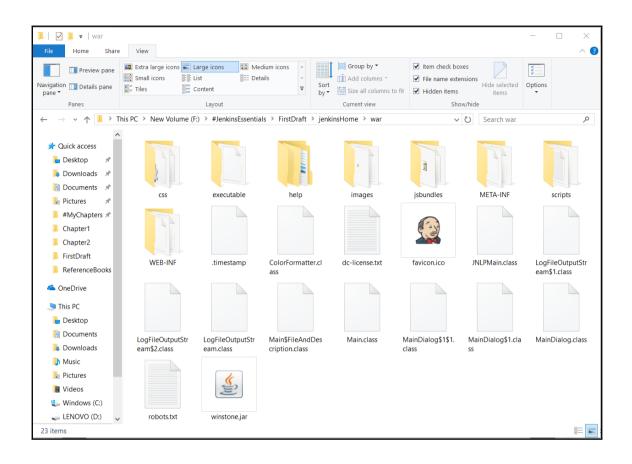
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) <u>#3</u>	May 21, 2017 8:55 AM		
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Console Output
Started by user <u>admin</u>
Building in workspace F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstJob
[FirstJob] \$ cmd /c call C:\Users\Mitesh\AppData\Local\Temp\jenkins3630239299526944525.bat
F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstJob>echo FirstJob FirstJob
F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstJob>echo Hello etutorialsworld.com! Hello etutorialsworld.com!
F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstJob>exit 0 Finished: SUCCESS



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🧶 Jenkins	Search (Mitesh log out
Jenkins → All →	
쯜 New Item	Item name AntExampleGit
Reople Build History	Freestyle project This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.
Project Relationship E Check File Fingerprint	 Maven project Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.
💥 Manage Jenkins 条 Credentials	 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 use Jenkins as a dashboard of your existing automation system. See the documentation for more details.
My Views Isk usage M Jenkins 100K	Multi-configuration project Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc. Copy existing Item Copy from
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Jenkins → AntExampleGit → configuration				
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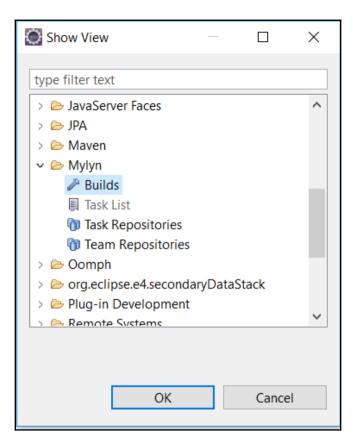
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🔮 Jenkins	🔍 search	Ø Mitesh log out
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😥 Jenkins	Search () Mitesh log out
Jenkins → AntExampleGit → #2	
🛧 Back to Project 🔍 Status	Console Output
 Changes Console Output View as plain text Edit Build Information Delete Build Environment Variables Git Build Data No Tags Previous Build 	<pre>Started by user Miseah [EnvTipet] - Loading mode environment variables. Building on master in workspace /root/.jenkins/jobs/AntExampleGit/workspace Cloning the remde Git repository Cloning the remde Git repository Cloning repository file:///root/git/development/AntExampleI/ > git inti /root/.jenkins/jobs/AntExampleGit/vorkspace # timeout=10 Fetching upstream changes from file:///root/git/development/AntExampleI/ > git fetchtagsprogress file:///root/git/development/AntExampleI/ +refs/heads/*irefs/remotes/origin/* > git config -mode.origin.ulf file:///root/git/development/AntExampleI/ # timeout=10 > git configadd remote.origin.fetch +refs/heads/*irefs/remotes/origin/* # timeout=10 > git configadd remote.origin.iffie:///root/git/development/AntExampleI/ > git config -modes.origin.iffie:///root/git/development/AntExampleI/ > git config -modes.origin.iffie:///root/git/development/AntExampleI/ > git config -modes.origin.iffie:///root/git/development/AntExampleI/ > git retchtagsprogress file:///root/git/development/AntExampleI/ > git retchtagsprogress file://root/git/development/AntExampleI/ > git rev-pare refs/remotes/origin/master?(comit) # timeout=10 > git rev-pares refs/remotes/origin/master?(comit) # timeout=10</pre>
Executed Ant Targets init compile Wat	Checking out Revision 6582202549cabc5e21ba3266d94060907607330 (refs/remotes/origin/master) > git config Goue, sparsecheckout # timeout=10 > git checkout -f 6b5822025d9cabc5e21ba3266d94060907607330 > git rev-list 6b5822025d9cabc5e21ba3266d94060907607330 # timeout=10 [workspace] % ant war Buildfile: build.xml
	init: [mkdir] Created dir: /root/.jenkins/jobs/AntExampleGit/workspace/build/classes [mkdir] Created dir: /root/.jenkins/jobs/AntExampleGit/workspace/dist

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Work with:	nylyn - http://download.eclipse.org/mylyn/releas	ses/latest	~	Add						
	Find more software by working with the <u>"Available Softwar</u>									
type filter tex										
Name		Version		^						
> 000 Myly	n Docs Features									
> 000 Myly	n Docs SDK and Framework									
	n Features									
	n Integrations									
	ylyn Builds Connector: Hudson/Jenkins	1.14.0.v20170214-163								
	ylyn Context Connector: C/C++ Development	5.18.0.v20161011-223								
	ylyn Context Connector: CVS Support	3.22.0.v20161011-223								
	ylyn Context Connector: Eclipse IDE	3.22.0.v20161011-223		~						
Select All	Deselect All 1 item selected									
Details										
				~						
				~						
Show only t	ne latest versions of available software	Hide items that are al	ready installed							
Group item	by category	What is already installe	ed?							
Show only s	oftware applicable to target environment									
Contact all	pdate sites during install to find required softwa	are								
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Ø	< Ba	ack Next >	Finish	Cancel						



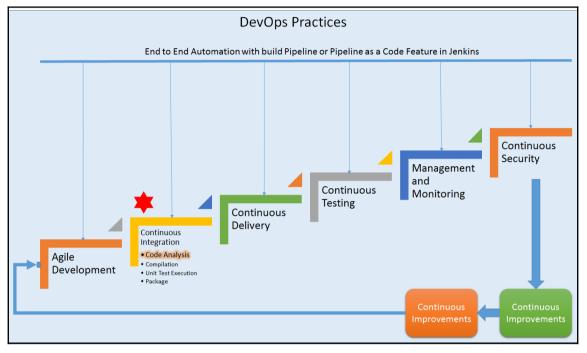
) Java - Eclipse File Edit Source Refactor Navigate Search Project Run W □ • R • • • • • • • • • • • • • • • • •			- 0 ×
File Edit Source Refactor Navigate Search Project Run Wi	ndow Help		
		Quick Access 😰 😵 Java 🗳 Team Synchronizing 🖷 Team Fou	
If Package Explorer №			
	If Problems ● Javadoc B Declaration ◎ Console 3 Team Explorer Pluids 37 No build severs available. Create a build server	ि • ♦ अ	

New Repository	_	L X
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Connects to continuous integration servers. Supports Hudson and Jenkins.		
Wizards:		
type filter text		
A Hudson (supports Jenkins)		
< Back Next > Finish		Cancel

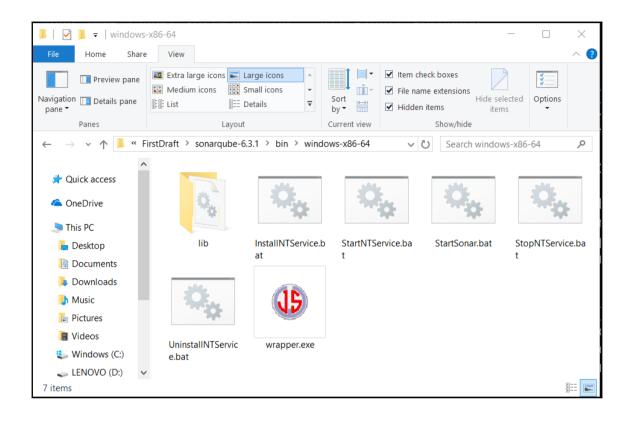
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Build Ser	ver Properties			8
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	etClinic-FuncTest etClinic-LoadTest			
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👔 Problems 🛛 Javadoc 😣 Declara	ation 🗳	Console 🌀 Team Explorer	A Builds 🛛	彻 Team Repositories 🚦 History	🗊 🕶 🤣 🔌 🔍 🎝 🔕 💷 💷 Ju 🖙 😑 🗋
7 Succeeded, 1 Unstable, 0 Failed					
Build	Summ	ary		Last Built	
~ 🗄 Local					
PetClinic	0 p. e.	to failing out of a total of Ef	tosta	3 weeks 2 days ago	
PetClinic-CloudProvisioning	•	Open Last Build		3 weeks 2 days ago	
PetClinic-Code	<u>e</u>	Last Build	>	3 weeks 2 days ago	
PetClinic-Deploy	•	Plan	>	3 weeks 2 days ago	
PetClinic-Docker	. 🔍 🔘	Run Build		2 month ago	
PetClinic-FuncTest	🕾 👂	History		3 weeks 2 days ago	
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Chapter 03: Managing Code Quality and Notifications



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Projects	lssues Rules	Quality Profile	s Quality Gates						Log in
Continu Log in	UOUS CODE						O Projects Analyzed	0 ¥ik Bugs 0 Én Vuln 0 & Code	erabilities
Multi-Lan		are supported l	ov SonarQube that	aks to our in-hous	e code analyzers	including:			
		are supported l <u>C#</u> Flex	oy SonarQube thar <u>COBOL</u> Python	nks to our in-hous <u>ABAP</u> <u>Groovy</u>	e code analyzers, HTML PHP	including: <u>RPG</u> Swift	JavaScript Visual Basic	Objective C PL/I	XML

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onarqube Projects Iss	sues Rules Quality F	Profiles Quality Gate	es Administrati	ion		🗱 Administrator 👻 🔍 👻
My Favorites	All					0 projec
Filters						
Quality Gate				You do	on't have any favorite p	projects yet.
Passed	0		Discover an	d mark as favorites	projects vou are interest	ed in to have a quick access to them.
Warning	0					
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and worse	0					
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ecurity						
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arqube Projects Iss	sues Rules Quality P	rofiles Quality Gate	s Administratic	on		🎆 Administrator 👻 🔍 🗸
ality Profiles						Create 👻
ality Profiles are collections each language there is a d			to some other pr	ofile will be analyze	d with the default	
each language there is a u	relative prome. All projects	not explicitly assigned	to some other pr	onie win be analyze	a with the default.	
Il Profiles 🔻						
C#, 1 profile(s)		Projects	Rules	Updated	Used	Recently Added Rules
Sonar way		Default	134	Never	Never	Skipped unit tests should be either removed o C#, not yet activated
Sonar way		Default	154	INEVEL	IVEVEI •	Failed unit tests should be fixed
						C#, not yet activated
Flex, 1 profile(s)		Projects	Rules	Updated	Used	Source files should not have any duplicated b C#, not yet activated
						Source files should have a sufficient density o C#, not yet activated
Sonar way		Default	60	Never	Never	Skipped unit tests should be either removed o PHP, not yet activated
						Failed unit tests should be fixed PHP, not yet activated
Java, 1 profile(s)		Projects	Rules	Updated	Used	Source files should not have any duplicated b
Sonar way		Default	277	Never	Never	PHP, activated on 1 profile(s) Lines should have sufficient coverage by tests
						PHP, not yet activated Source files should have a sufficient density o
						PHP, not yet activated

Rules

Projects

Updated

Used

Branches should have sufficient coverage by t

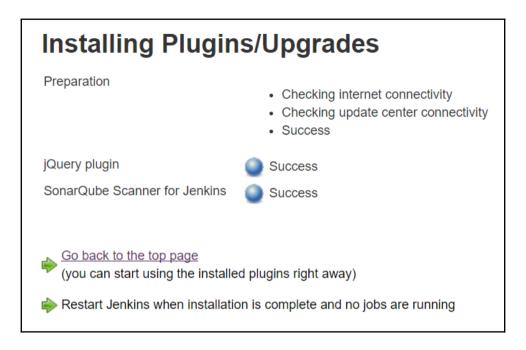
JavaScript, 1 profile(s)

sonarqube Projects Issues	Rules Qu	ality Profiles Quality Gates	Administration				🎆 A	dministrator 🕶	Q.+(?
Quality Gates	Create	SonarQube way				Rename	Сору	Unset as Default	Delete	9
SonarQube way	Default	Conditions Only project measures are che	ecked against threshold	ds. Sub-projects, dire	ctories and files are ignored.	More				
		Metric		Over Leak Period	Operator	Warning	Error			
		Coverage on New Code		Always	is less than 💌		80	Update	Delete]
		Maintainability Rating on Ne	ew Code	Always	is worse than	•	A × -	Update	Delete]
		Reliability Rating on New Co	de	Always	is worse than	•	A × -	Update	Delete]
		Security Rating on New Code	e	Always	is worse than	•	A × -	Update	Delete]
		Add Condition	¥							
		Projects								
		You must not select specific pr	rojects for the default o	quality gate.						

sonarqube Projects Issues Rules C	Quality Profiles Quality Gates Administration	🗱 Administrator 👻 🔍 💡
Rules		1 / 397 rules Reload New Search Bulk Change
Search	".equals()" should not be used to test the values of "Atomic" classes	Java 💐 Bug 👒 multi-threading 🝸 🗸
🗹 Language	"@Deprecated" code should not be used	Java 🛛 Ode Smell 🛛 🗞 cert, cwe, obsolete 🝸 🗸
Java 397	"@NonNull" values should not be set to null	Java 🏽 Bug 🍸 🗸
Python 238 C# 189	"@Override" should be used on overriding and implementing methods	Java 🛛 & Code Smell 🛛 🗞 bad-practice 🝸 🕶
JavaScript 184	"action" mappings should not have too many "forward" entries	Java 🛛 🛛 Code Smell 🛛 🗞 brain-overload, struts 🝸 🕶
PHP 126 Flex 79	"Arrays.stream" should be used for primitive arrays	Java 🐞 Bug 👒 performance 🝸 🕶
Search 🔻	"assert" should only be used with boolean variables	Java 🏾 🕌 Bug 🛛 👒 cert, suspicious 🝸 🕶
🗹 Туре	"BigDecimal(double)" should not be used	Java 🕷 Bug 👒 cert 🝸 🕶
Xii Bug 149 Ivulnerability 31	"catch" clauses should do more than rethrow	Java 🛛 🟵 Code Smell 🛛 🗞 cert, clumsy, finding, unused 🛛 🔻
Code Smell 217	"clone" should not be overridden	Java 🛛 😌 Code Smell 🛛 🗞 suspicious 🝸 🗸
🗖 Tag	"Cloneables" should implement "clone"	Java 🕷 Bug 🝸 🗸
Repository	"Collections.EMPTY_LIST", "EMPTY_MAP", and "EMPTY_SET" should not be used	Java 🛛 😌 Code Smell 🛛 👒 obsolete, pitfall 🛛 🔻
Default Severity	"compareTo" results should not be checked for specific values	Java 🏾 🎉 Bug 👒 unpredictable 🍸 🕶
Status Available Since	"compareTo" should not return "Integer.MIN_VALUE"	Java 瀧 Bug 🍸 🗸

sonarqube Projects	Issues Ru	ules	Quality Profiles	Quality Gates	Administration 🛱 Administrator 👻 📿 🗸 👔
Quality Profiles / Java Sonar way					Updated: Never Used: Never Changelog Actions -
Rules	Act	tive	Inactive	Inheritance	Change Parent
Total 進 Bugs 節 Vulnerabilities		277 129 18	<u>120</u> 20 13	Sonar way	277 active rules
Code Smells	[130	87 ate More	Projects Default Ever	y project not specifically associated with a quality profile will be associated to this one by default.
The embedd	led database w	vill not	scale, it will not sup		atabase should be used for evaluation purpose only newer versions of SonarQube, and there is no support for migrating your data out of it into a different database engine.
				Son	arQube [™] technology is powered by <u>SonarSource SA</u> PL v3 - Community - Documentation - Get Support - Plugins - Web API - About

🧕 Updat	e Center [Jenkins] ×	Jenkins Plu	ıgins	× \	s - SonarQube	× New Tab		×		-	-		×
$\leftrightarrow \rightarrow c$	i localhost:808	80/pluginManag	ger/available						Ð	. ☆	s.		1 :
(]	enkins				1	🔍 search			?	а	dmin	log	out
Jenkins	 Plugin Manag 	jer											
🛧 Bac	k to Dashboard												
欁 Mar	nage Jenkins												
								Filter: 🧕 S	onarqu	be			
Upda	ates Available	Installed	Advanced										
Install ↓		Installed	Auvanceu		Name							Versio	-n
	SonarQube Scan	ner for Jenkins			Name							2.6.1	
	Mashup Portlets											2.0.1	
	Additional Da SCM change		b), SonarQu			bitrary content via J be statistics directly i						1.0.8	
										_			
Instal	l without restart	Do	wnload now	and install after	restart	Update information	on obtained	d: 3 days 10	hr ago		Check	now	
					Pa	ge generated: May 2	5, 2017 11:	46:58 PM IST	T <u>RE</u> S	ST AP	l Jen	ikins ver	2.61



- → C ③ localhost:8080/configure			Ð	۲	☆	x						
Jenkins configuration												
SonarQube servers												
Environment variables	Enable injection of SonarQu	be server configuration as build env	ironi	men	t var	iable	s					
	If checked, job administrators will be abl the build.	e to inject a SonarQube server configuration	as er	viron	ment	variat	oles in					
SonarQube installations	Name	Name Sonarqube6.3										
	Server URL											
		Default is http://localhost:9000										
	Server version	5.3 or higher					٠					
		Configuration fields depend on the SonarQu	ibe s	erver	versi	on.						
	Server authentication token											
		SonarQube authentication token. Mandatory is disabled.	y whe	en an	onym	ous ad	cess					
	SonarQube account login											
		SonarQube account used to perform analys										
	SonarQube account password	anonymous access is disabled. No longer us	sed s	ince :	sonar	rQube	5.3.					
		SonarQube account used to perform analys anonymous access is disabled. No longer us					53					
						nced.						
			Del	ete S	Sona	rQub	e					
	Add SonarQube											
	List of SonarQube installations											

sonarqube	Projects	Issues	Rules	Quality Profiles	Quality Gates	Administration
Administration						
Configuration 🔻	Security	 Proj 	jects 🔻	System 🔻		
Carrand	Users		F			
General Edit globa	Groups Global I	Permissior ion Templ		instance.		

sonarqube	Projects	Issues Rules	Quality Profiles	Quality Gates	Administration			in 1997 (1997)	Administrator 👻	Q.+	0
Administration	n										
Configuration 🕶	Security	▼ Projects ▼	System 💌								
Users Create ar	nd administ	er individual user	'S.						Create U	Jser	
Q Searc	h										
					SCM Accounts		Groups	Tokens			
	Adminis	trator admin					sonar-administrators sonar-users	0 🔚	/ 6	×	
						1/1 shown					

sonarqube Projects Issues Rules Quality Profiles C	Quality Gates Administration		🗱 Administrator 👻 🕻	Q - 🕐
Administration				
Configuration Security Projects System				
Users Create and administer individual users. Q. Search			Crea	te User
	SCM Accounts	Groups	Tokens	
Administrator admin		sonar-administrators sonar-users	0 J Update Tokens	• 🗎 🗙
	1/1 shown			

Tokens	
Name	Created
No tokens	
Generate Tokens	
	Done

Tokens		
Name	Created	
JenkinsEssentials	May 25, 2017	Revoke
Generate Tokens Enter Token Name Generate		
New token "JenkinsEssentials" has been c won't be able to see it again!	reated. Make sure you co	opy it now, you
Cop :// 4dc45d3a67f0c445845d53dc1	ld47e1e8279ff2ca	
		Done

sonarQube Projects Issues Rules Quality Profiles Q	Quality Gates Administration		🎆 Administrator 🔻	Q - 😢
Administration				
Configuration Security Projects System				
Users Create and administer individual users. Q. Search			Crea	ate User
	SCM Accounts	Groups	Tokens	
Administrator admin		sonar-administrators sonar-users	1 🔳 🧳	▶ 🚔 🗙
	1/1 shown			

→ C (i) localhost:8080/configure		Œ	2	T	☆	۶.	M		I			
nkins <a> configuration												
narQube servers												
nvironment variables	Enable injection of SonarQul 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.											
onarQube installations	Name	Sonarqube6.3										
	Server URL	Server URL http://localhost:9000/										
		Default is http://localhost:	900	00								
	Server version	5.3 or higher •										
		Configuration fields depen SonarQube server version		on t	he							
	Server authentication token											
		SonarQube authentication token. Mandatory when anonymous access is disabled.										
	SonarQube account login											
		SonarQube account used Mandatory when anonym disabled. No longer used 5.3.	ous	s ac	ces	s is						
	SonarQube account password											
		SonarQube account used				n anal	ysis.					

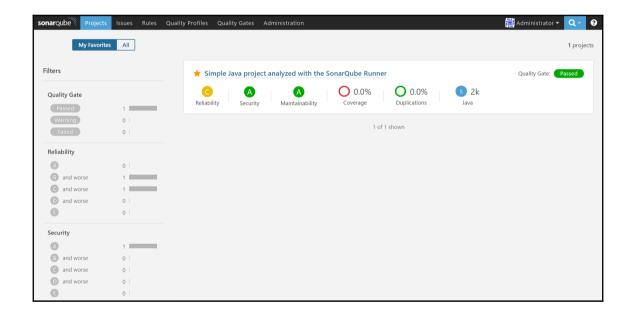
Jenkins - F Global Tool Configuration			*				
S.	SonarQube Scanner						
	SonarQube Scanner installations	SonarQube Scanner					
		Name SonarQube Scanner 3.0.3					
		✓ Install automatically	0				
		Version SonarQube Scanner 3.0.3.778 • Delete Installer					
		Add Installer 👻					
		Add SonarQube Scanner List of SonarQube Scanner installations on this system					
	Ant						
	Ant installations						
	Maven						
	Maven installations						
	Save Apply		Ţ				

🧕 Jenki	INS 1 @search @ admin le	og out
Jenkins All	>	
61	Enter an item name	
	PetClinic-Code	
	» Required field	
	Freestyle project This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.	
	Maven project Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.	
	Pipeline Orchestrates long-running activities 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.	
r	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 use Jenkins as a dashboard of your existing automation system.	
	OK ulti-configuration project	

Jenkins > PetClinic	Code 🕨				
	General Source Code Management Build Trigger	rs Build Environment	Build	Post-build Actions	
	Build Environment				
1	Delete workspace before build starts				
	Abort the build if it's stuck				
	Add timestamps to the Console Output				
	Use secret text(s) or file(s)				0
	D 11				
	Build				
	Add build step 👻				
	Execute SonarQube Scanner				
	Execute Windows batch command				
	Execute shell				
	Invoke Ant				
	Invoke Gradle script				
	Invoke top-level Maven targets				
	Run with timeout				
	Set build status to "pending" on GitHub commit				
	SonarQube Scanner for MSBuild - Begin Analysis				
	SonarQube Scanner for MSBuild - End Analysis				

Jenkins PetClinic-Code		
General Source Code Mana	agement Build Triggers Build Environment Build Post-build Actions	
Build		
Execute SonarQube Sca	nner X	
Task to run		0
JDK	JDK 8	0
		Ŭ
	JDK to be used for this SonarQube analysis	0
Path to project properties	sonar-project.properties	
Analysis properties		0
Additional arguments		
JVM Options		0
3VW Options		
Add build step		
Add build step		
Save Apply S		

```
# Required metadata
sonar.projectKey=java-sonar-runner-simple
sonar.projectName=Simple Java project analyzed with the SonarQube Runner
sonar.projectVersion=1.0
# Comma-separated paths to directories with sources (required)
sonar.sources=src
# Language
sonar.language=java
# Encoding of the source files
sonar.sourceEncoding=UTF-8
```



sonarqube Projects Issues R	Rules Quality Profiles Quality Gates	Administration	🗱 Administrator 👻 🔍 🔹
★ 🗂 Simple Java project analyze	ed with the SonarQube Runner		May 26, 2017 10:44 AM Version 1.0
🖀 Issues Measures Code A	Activity Administration 👻		
Quality Gate Passed			5 2k Java 2k
Bugs & Vulnerabilities			Quality Cate
33 0		0 💊	Quality Gate (Default) SonarQube way
j∰ Bugs		G Vulnerabilities	Quality Profiles (Java) Sonar way
			Key
Code Smells			java-sonar-runner-simple
7h 🖪)	35	Activity
Debt		S Code Smells	May 26, 2017
started 5 minutes ago		• code sincilis	Show More
Coverage			
O.0%	6		

arqube Projects Issues Rules	Quality Profiles Quality Gates	Administration			🗱 Administrator 👻 🤇
C#, 1 profile(s)	Projects	Rules	Updated	Used	Recently Added Rules
Sonar way	Default	134	Never	Never	Skipped unit tests should be either remove C#, not yet activated
					Failed unit tests should be fixed C#, not yet activated
					Source files should not have any duplicate C#, not yet activated
Flex, 1 profile(s)	Projects	Rules	Updated	Used	Source files should have a sufficient densit
Sonar way	Default	60	Never	Never	C#, not yet activated Skipped unit tests should be either remove
					PHP, not yet activated
1 4 19 15	D 1 4	Rules		Used	Failed unit tests should be fixed PHP, not yet activated
Java, 1 profile(s)	Projects	Kules	Updated	Used	Source files should not have any duplicate PHP, activated on 1 profile(s)
Sonar way	Default	277	Never	6 minutes ago 🔽	Lines should have sufficient coverage by te
				Activate More Rules	PHP, not yet activated Source files should have a sufficient densit
JavaScript, 1 profile(s)	Projects	Rules	Updated	Back up Compare	PHP, not yet activated
	Frojects	Rules	opuated	Comu	Branches should have sufficient coverage b PHP, not yet activated
Sonar way	Default	111	Never	Rename	See All 1.2k
PHP, 3 profile(s)	Projects	Rules	Updated	Used	
t:9000/profiles#	0	20	Never	Never	

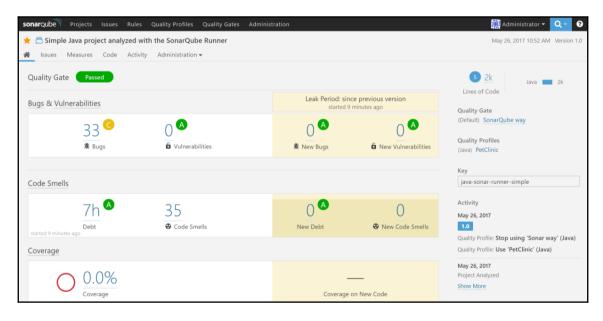
Copy Profile Sonar way - Java				
New name*	PetClinic			
		Copy Cancel		

Rules Active Inactive Inheritance Change Parent Total 277 120 PetClinic 277 active rules & Bugs 129 200 PetClinic 277 active rules & Vulnerabilities 18 13 Projects Change Projects Activate More No projects are explicitly associated to the profile. Change Projects	sonarqube Proje	cts Issues R	Rules	Quality Profiles	Quality Gates	Administration	📓 Administrator 👻 🔍 🍷
Total 277 120 PetClinic 277 active rules & Bugs 129 20 O Code Smells 130 87 Activate More Activate More						Updated: a few seconds ago Used: Never	Changelog Actions -
** Bugs 129 20 • Vulnerabilities 18 13 • Code Smells 130 87 Activate More Projects Change Projects	Rules	Ac	ctive	Inactive	Inheritance		Change Parent
ŵ Vulnerabilities 18 13 Code Smells 130 87 Activate More Activate More	Total		277	120	PetClinic	277 active rules	
Code Smells 130 87 Activate More Projects Change Projects	🕷 Bugs		129	20			
Projects Change Projects	û Vulnerabiliti	es	18	13			
	😵 Code Smell	;			-	re explicitly associated to the profile.	Change Projects

sonarqube	Projects Issues Rules Quality Profiles Quality Gates Administration	Administrator 👻 🔍 🥐
🛨 🗂 Simple	Java project analyzed with the SonarQube Runner	May 26, 2017 10:44 AM Version 1.0
A Issues	Measures Code Activity Administration -	
	iles profile is associated with this project on a language-by-language basis. (Note that you will only need to select profiles for ages for multi-language projects.)	
Language	Quality Profile	
C#	Default Sonar way 👻	
Flex	Default Sonar way 💌	
Java	Þefault: Sonar way	
JavaScript	Default: Sonar way PetClinic	
PHP	Default Sonar way	
Python	Default Sonar way 👻	

sonarqube Projects	Issues Rules	Quality Profiles	Quality Gates	Administration	
Administration Configuration	ty ▼ Projects ▼	System 🔻			
General Setting Edit global setting		e instance.			
Analysis Scope	SCM				
C#	Disa	ole the SCM Sensor			
Flex	Contr	le the retrieval of blam ol Manager onar.scm.disabled	e information from	Source	\bigcirc
General	Key. s	onal.schi.uisableu		S	ave Cancel
Java					
РНР	SVN				
Python	Pass	ohrase		\searrow	
Scanner for MSE	out fail	nal passphrase of your onar.svn.passphrase.se		S	et
SCM	User	name			
Security		ame to be used for SVI ntication	N server or SVN+S	5H	
SonarJS	Key: s	onar.svn.username			

stall	Name	Version
	CodeSonar Plugin	2.0.5
	SonarQube Scanner for Jenkins	2.6.1
	Sonargraph Integration Jenkins Plugin	2.0.2
	Sonargraph Plugin	1.6.4
	Mashup Portlets Additional Dashboard Portlets: Generic JS Portlet (lets you pull in arbitrary content via JS), Recent Changes Portlet (shows the SCM changes for a given job), SonarQube Portlets (show SonarQube statistics directly in Jenkins) and Test Results Portlet (shows the test results for a given job). Sonar Gerrit Plugin	1.0.8 2.0
	Quality Gates Plugin Fails the build whenever the Quality Gates criteria in the Sonar analysis aren't met (the project Quality Gates status is different than "Passed") Sonar Quality Gates Plugin	2.5
1	Fails the build whenever the Quality Gates criteria in the Sonar 5.6+ analysis aren't met (the project Quality Gates status is different than "Passed")	1.0.4



General	Source Code Management	Build Triggers	Build Environment	Build	Post-build Actions			
Post-b	uild Actions							
Qual	Quality Gates Sonarqube Plugin There are no Quality Gates instances configured.							
	 Please configur 	e a Quality Gate in	istance in the <u>system c</u> Isername: admin, Pass					
Proje	ct Key						0	
	Please insert proje	ct key.						
	Enter your project key.							
Add post	-build action 👻							
Save	Apply							

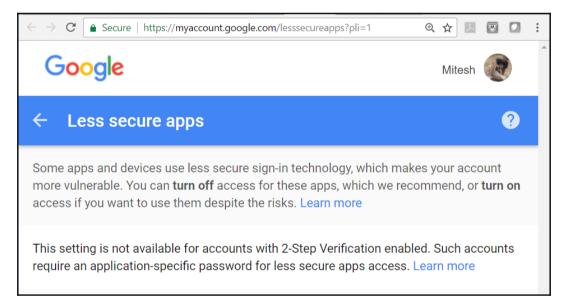
$\leftrightarrow \rightarrow \mathbb{C}$ O localhost:8080/configure		④ ¶ ☆ 🗵		:
Jenkins				•
Quality Gates - Sonarqube				
	Name	Sonaqube6.3	0	
		Make sure the name is unique value	_	
	SonarQube Server URL	http://localhost:9000	0	
		Default value is 'http://localhost:9000'		
	SonarQube account login	admin	0	
		Default value is 'admin'	_	
	SonarQube account password	•••••]	
		Default value is 'admin'	_	
	Time to wait next check (milliseconds)			
		Default value is '10000'		
		Delete		
	Add Sonar instance			

```
# Required metadata
sonar.projectKey=java-sonar-runner-simple
sonar.projectName=Simple Java project analyzed with the SonarQube Runner
sonar.projectVersion=1.0
# Comma-separated paths to directories with sources (required)
sonar.sources=src
# Language
sonar.language=java
# Encoding of the source files
sonar.sourceEncoding=UTF-8
```

Post-build A	Post-build Actions		
Quality Gate	s Sonarqube Plugin	0	
Project Key	java-sonar-runner-simple	0	
	Enter your project key.		
Add post-build a	ction -		
Save	Apply		

INFO: ANALYSIS SUCCESSFUL, you can browse http://localhost:9000/dashboard/index/java-sonar-runner-simple INFO: Note that you will be able to access the updated dashboard once the server has processed the submitted analysis report INFO: More about the report processing at http://localhost:9000/api/ce/task?id=AVxDQYIS-pm0HP4V18a0 INFO: Task total time: 43.474 s TNEQ. INFO: EXECUTION SUCCESS INFO: -----INFO: Total time: 1:01.431s INFO: Final Memory: 46M/134M INFO: -----Has build IN PROGRESS with id: AVxDQYIS-pm0HP4V18aO - waiting 10000 to execute next check. Has build IN PROGRESS with id: AVxDQYIS-pm0HP4V18aO - waiting 10000 to execute next check. Has build IN_PROGRESS with id: AVxDQYIS-pm0HP4V18aO - waiting 10000 to execute next check. ERROR: Build step failed with exception org.quality.gates.sonar.api.MaxExecutionTimeException: Max time to wait sonar job! at org.quality.gates.sonar.api.QualityGatesProvider.getAPIResultsForQualityGates(QualityGatesProvider.java:82) at org.quality.gates.jenkins.plugin.BuildDecision.getStatus(BuildDecision.java:22) at org.quality.gates.jenkins.plugin.QGPublisher.perform(QGPublisher.java:84) at hudson.tasks.BuildStepMonitor\$1.perform(BuildStepMonitor.java:20) at hudson.model.AbstractBuild\$AbstractBuildExecution.perform(AbstractBuild.java:735) at hudson.model.AbstractBuild\$AbstractBuildExecution.performAllBuildSteps(AbstractBuild.java:676) at hudson.model.Build\$BuildExecution.post2(Build.java:186) at hudson.model.AbstractBuild\$AbstractBuildExecution.post(AbstractBuild.java:621) at hudson.model.Run.execute(Run.java:1760) at hudson.model.FreeStyleBuild.run(FreeStyleBuild.java:43) at hudson.model.ResourceController.execute(ResourceController.java:97) at hudson.model.Executor.run(Executor.java:405) Build step 'Quality Gates Sonarqube Plugin' marked build as failure Finished: FAILURE

sonarqube Projects Issues Rules	Quality Profiles Quality Gates Admir	istration		🔛 Administrator 👻 🔍 🥑
★ 🗂 Simple Java project analyzed wi	th the SonarQube Runner			C In Progress May 26, 2017 11:00 AM Version 1.0
🖀 Issues Measures Code Activity	y Administration 🗸			
Quality Gate Failed				S 2k Lines of Code Quality Gate
is greater than 10				(Default) SonarQube way
Bugs & Vulnerabilities		Leak Period: since started 17 n	e previous version ninutes ago	Quality Profiles (Java) PetClinic
33 0	0	0	0	Кеу
減 Bugs	Vulnerabilities	ið New Bugs	New Vulnerabilities	java-sonar-runner-simple
				Activity
Code Smells				May 26, 2017
		•		Quality Gate: Red (was Green)
7h 🌥	35	0	0	May 26, 2017 Project Analyzed
Debt started 17 minutes ago	Code Smells	New Debt	New Code Smells	May 26, 2017
Coverage				Quality Profile: Stop using 'Sonar way' (Java) Quality Profile: Use 'PetClinic' (Java)



Google	Q Have a question about Google Accounts?		III O 🧶
	le Account Help Verification > Signing in with 2-Step Verification		
	Sign in using App Passwords. An App password is a 16-digit passed that gives an app or device permission to access your Google Account. If you use 2.Step-Verification 02 and are seeing a "password incorrect" error when trying to access your Google Account, an App password may solve the problem. Most of the time, you'll only have to enter an App password once per app or device, so don't worry about memorizing it. Note: If you have 105.8.3 or greater on your iPhone or OSX 10.10.3 on your Mac, you will no longer have to use App passwords to use 2.5tep Verification when using the Ginal or any Google branded Apps from Tunes. Using the Google option on the native IOS mail client also does not require App passwords.	Signing in with 2-Step Verification How you sign in with 2-Step Verification sign in faster with 2-Step Verification phone prompts Sign in using App Passwords Sign in using backup codes Sign in with your backup phone	
	Why you may need an App password How to generate an App password 1. Visit your App passwords (2) page, You may be asked to sign in to your Google Account. 2. A the bottom, click Select app and choose the app you're using. 3. Click Select device and choose the device you're using. 4. Select Generate 5. Follow the instructions to enter the App password (the 16 character code in the yellow bar) on your device. 6. Select Done. Once you are finished, you won't see that App password code again, However, you will see a list of apps and 		

Google		 0	
	App passwords		?
	App passwords allow 2-Step Verification users to access their Google Accounts through apps such as Mail on an iPhone or Mac, or Outlook. We'll generate the app passwords for you, and you won't need to remember them. Learn more		
	You have no app passwords.		

Google			 0	
4 I	Generated app password	Your app password for your device		0
	Email Securesally@gmail.com Passend	The settings for your Google Account in the application or device you are trying to set up. Replace your password with the 16- character password shown above. Just like your normal password, this app password grants complete access to your Google Account. You won't need to remember it, so don't write it down or share it with anyone.		
Google Terms & Privacy Help				

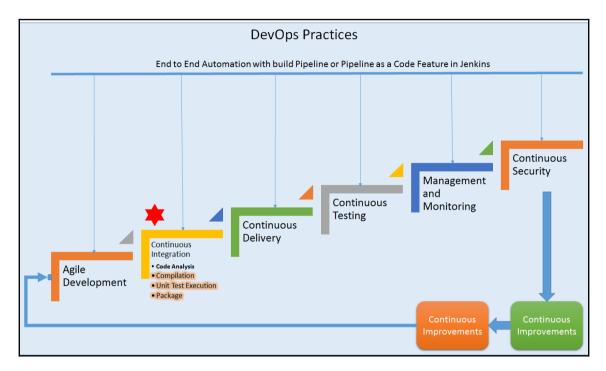
E-mail Notification		
SMTP server	smtp.gmail.com	0
Default user e-mail suffix		•
Use SMTP Authentication		?
User Name	@gmail.com	
Password]
Use SSL	•	2
SMTP Port	465	0
Reply-To Address	@gmail.com	
Charset	UTF-8	
Test configuration by sending test e-mail		
Test e-mail recipient	@gmail.com	
	Email was successfully sent Test configuration	
Save Apply		

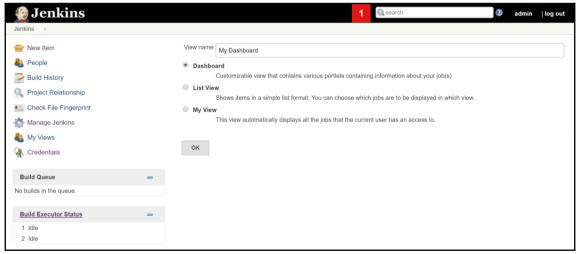
Jenkins PetCli	inic-Code >>	
	General Source Code Management Build Triggers Build Environment Build Post-build Actions	
	Add build step 👻	
	Post-build Actions	
	E-mail Notification	0
	Recipients @gmail.com	
	Whitespace-separated list of recipient addresses. May reference build parameters like \$PARAM. 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 broke the build	
	Add post-build action 👻	
	Save Apply	

ERROR:	
ERROR: Re-run SonarQube Scanner using the -X switch to enable full debug logging.	
ERROR: SonarQube scanner exited with non-zero code: 1	
Sending e-mails to:@gmail.com	
Finished: FAILURE	

ild failed in Jenkins: PetClinic-Code #20 Dinbox x #Personal/#Me x	ē 2
address not configured yet <@gmail.com>	10:14 PM (1 minute ago) 📩 🔹 💌
See < <u>http://localhost.8080/job/PetClinic-Code/20/display/redirect</u> >	
Started by user adminimum. Started by user adminimum. Started by user adminimum. FSSCM checkout F1#JenkinsEssentials/iristDraft/PetClinic-Code/ws/> FSSCM checkout F1#JenkinsEssentials/iristDraft/PetClinic to < <u>http://localhost.8080/job/PetClinic-Code</u> FSSCM checkout F1#JenkinsEssentials/iristDraft/PetClinics. TestCM check completed in 4.606 seconds [PetClinic-Code] § F1#JenkinsEssentials/FirstDraftyenkinsHometools/hudson.plugins.sonar.SonarR Dsonar.host.url=http://localhost.9000/ ******* -Dproject.settings=< <u>http://localhost.8080/job/PetClinic- /localhost.8080/job/PetClinic-Code/ws/></u> INFO: Option =0-errors is no longer supported and will be ignored INFO: Scanner configuration file: <u>*tW=lenkinsEssentials/FirstDraftyenkinsHometools/hudson.plugins.</u> vconfsonar-scanner.properties INFO: Option to comfiguration file: <u>*tW=lenkinsEssentials/FirstDraftyenkinsHometools/hudson.plugins.</u> vconfsonar-scanner.properties INFO: SonarCube Scanner 3.0.3.778 INFO: Josar 1.8.0_1110 cracle Corporation (64-bit) INFO: Windows 10 10.0 amd64 INFO: User cache: C:\UsersWintesh\sonar\cache ERROR: SonarCube server [http://localhost.9000] can not be reached INFO: EXECUTION FAILURE	unnerInstallation\SonarQube_Scanner_3.0.3\bin\sonar-scanner bat -e - Code/ws/sonar-project.properties> -Dsonar.projectBaseDir=< <u>http:/</u> sonar.SonarRunnerInstallation\SonarQube_Scanner_3.0.3\bin\
INFC: Treal Memory 3M/61M INFC: Total time: 3.498 INFC: Timal Memory: 3M/61M INFC: Final Memory: 3M/61M INFC: Final Memory: 3M/61M INFC: Final Memory: 3M/61M INFC: Second State Sta	ýjava:71) herFactoryjava:71)

Chapter 04: Continuous Integration with Jenkins





🎡 Jenkins				1	Search	0	admin	log ol	ut
Jenkins → My Dashboard →									
 New Item People Build History Edit View Delete View Project Relationship Check File Fingerprint Manage Jenkins 			My Dashboard						0
A My Views		Job Filters							
Credentials		Status Filter	All selected jobs					•	0
Build Queue No builds in the queue. Build Executor Status	•		 FirstJob Main-PetClinic Maven-Sample PetClinic-Code SpringBoot 						
1 Idle 2 Idle		ок Арріу	anatan ka kashada kaka kata ka atan.						6

🧕 Jenkins					1 🔍	search	2	admin log out
Jenkins My Dashboard								DISABLE AUTO REFRESH
쯜 New Item 🍓 People		All		iboard +				add description
Build History		S	w	Name ↓	Last Success	Last Failure	Last Duration	
Edit View		0		PetClinic-Code	11 hr - <u>#18</u>	19 min - <u>#20</u>	1 min 34 sec	\mathbf{s}
S Delete View		Icon: S	<u>M</u> L		Legend	RSS for all RSS f	or failures 🔊 RSS f	or just latest builds
Project Relationship								
Le Check File Fingerprint								
款 Manage Jenkins								
鵗 My Views								
A Credentials								
Build Queue	-							
No builds in the queue.								
Build Executor Status	-							
1 Idle								
2 Idle								

🧕 Jenkiı	ns 1 Qsearch 0	admin	log out	^
Jenkins > All >				
	Enter an item name			l
	FirstAntExample			I
	» Required field			1
	Freestyle project This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build. Maven project Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.			
	Pipeline Orchestrates long-running activities 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 use Jenkins as a dashboard of your existing automation system.			
	or ulti-configuration project for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.			Ŧ

Jenkins > FirstA	ntExample	÷								
	General	Source Code	e Management	Build Triggers	Build Environment	Build	Post-build Actions			
	Source	Source Code Management								
	None									
	File Sys	tem								
	 Git 									
	Repositories Repository URL https://github.com/mitesh51/AntExample.git Credentials -none - Add							0	•	
								Advanced Add Repository		
	Branches to build		Branch Spe	ecifier (blank for 'any'	*) */master			X Add Branch	0	
	Reposite	ory browser	(Auto)						•	0
	Save	Apply	Add 🗸							

Jenkins FirstAntExample	
General Source Code Management Build T	iggers Build Environment Build Post-build Actions
Build Environment	
Delete workspace before build starts	
Abort the build if it's stuck	
Add timestamps to the Console Output	
Use secret text(s) or file(s)	0
Build	
Add build step 👻	
Execute SonarQube Scanner	
Execute Windows batch command	
Execute shell	
Invoke Ant	
Invoke Gradle script	
Invoke top-level Maven targets	
Quality Gates Sonarqube Plugin	
Run with timeout	
Set build status to "pending" on GitHub commit	
SonarQube Scanner for MSBuild - Begin Analysis	
SonarQube Scanner for MSBuild - End Analysis	

Jenkins > FirstA	Example >	
	General Source Code Management Build Triggers Build Environment Build Post-build Actions	
	Build	
	Invoke Ant	×
	Ant Version apache-ant-1.9.4	•
	Targets war	•
		Advanced
	Add build step 👻	
	Post-build Actions	
	Add post-build action 👻	
	Save Apply	

Jenkins FirstAntExample #2	
Edit Build Information	<pre>> git.exe config remote.origin.url <u>https://github.com/mitesh51/AntExample.git</u> # timeout=10 Fetching upstream changes from <u>https://github.com/mitesh51/AntExample.git</u></pre>
♦ Git Build Data □ No Tags	> git.exeversion # timeout=10 > git.exe fetchtagsprogress <u>https://github.com/mitesh51/AntExample.git</u> +refs/heads/*:refs/remotes/origin/* > git.exe rev-parse "refs/remotes/origin/master^{commit}" # timeout=10
< Previous Build	> git.exe rev-parse "refs/remotes/origin/origin/master^{commit}" # timeout=10 Checking out Revision b88fd734baee7a009d404e478171871629e7ec84 (refs/remotes/origin/master) > git.exe config core.sparsecheckout # timeout=10
Executed Ant Targets init	<pre>> gittexe checkout + D88fd73Hbaee7a09d404e478171871629e7ec84 > gittexe checkout + D88fd73Hbaee7a09d404e478171871629e7ec84 > gittexe rev-list b88fd73Hbaee7a09d404e478171871629e7ec84 # timeout=10 [FirstAntExample] \$ cmd.exe (/ C'(), apache-ant-1.9,4Upin)ant.bat war && exit %%ERRORLEVEL%%"</pre>
<u>compile</u> <u>war</u>	Buildfile: F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstAntExample\build.xml init:
	[mkdir] Created dir: F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstAntExample\build\classes [mkdir] Created dir: F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstAntExample\dist
	compile: [javac] F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstAntExample\build.xml:17: warning: 'includeantruntime' was not set, defaulting to build.sysclasspath=last; set to false for repeatable builds [javac] Compiling 4 source files to
	F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstAntExample\build\classes [javac] Note:
	F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstAntExample\src\com\vaannila\web\UserController.java uses or overrides a deprecated API. [javac] Note: Recompile with -Xlint:deprecation for details.
	war: [war] Building war:
	F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstAntExample\dist\AntExample.war BUILD SUCCESSFUL Total time: 6 seconds
	Finished: SUCCESS
🎨 Jenkins	1 🔍 search
Jenkins FirstAntExample	
摿 Back to Dashboard	Workspace of FirstAntExample on master
🔍 Status	
Changes	dist /
Workspace	AntExample.war 4.19 MB 👟 view
Build Now	(all files in zip)
S Delete Project	
Tonfigure	
a Build History	trend =

find

#2

May 26, 2017 10:47 PM

May 26, 2017 10:36 PM

S RSS for all RSS for failures

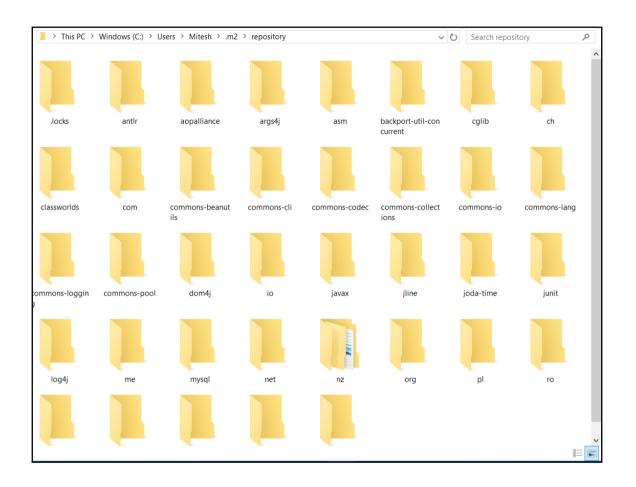
х

🧕 Jenki	ns	1 Qsearch (7)	admin	log out			
Jenkins → All	•						
	Enter an item name						
	PetClinic-Package						
	» Required field						
	Freestyle project This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build. Maven project Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.						
	Pipeline Orchestrates long-running activities that can span multiple build slav organizing complex activities that do not easily fit in free-style job typ	es. Suitable for building pipelines (formerly known as workflows) and/or e.					
	External Job This type of job allows you to record the execution of a process run or use Jenkins as a dashboard of your existing automation system.	butside Jenkins, even on a remote machine. This is designed so that you can					
	OK ulti-configuration project	ons, such as testing on multiple environments, platform-specific builds, etc.					

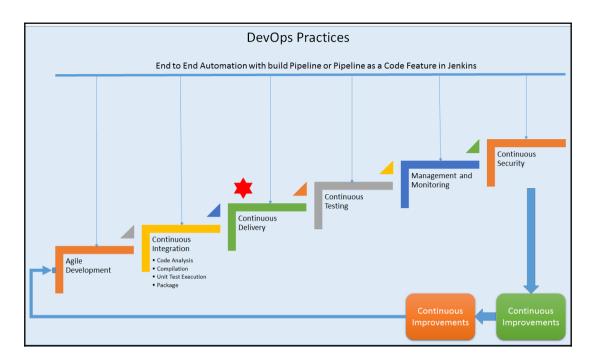
Jenkins > PetCl	inic-Package							
	General Source Code Mar Post-build Actions	agement Build Triggers Build	d Environment Pre Steps	Build Post Steps B	uild Settings			
	Build							
	Root POM pom.xml							
	Goals and options	package			0			
					Advanced			
	Post Steps							
		Run only if build succeeds Ru	n only if build succeeds or is uns	table 💿 Run regardless of buil	d result			
		Should the post-build steps run only for success	ful builds, etc.					
	Add post-build step 👻							
	Build Settings							
	E-mail Notification							
	Post-build Actions							

Jenkins ► PetClinic-Package ► #1	
	Results :
	Tests run: 59, Failures: 0, Errors: 0, Skipped: 0
	[JENKINS] Recording test results
	[INFO]
	[INFO] maven-war-plugin:2.3:war (default-war) @ spring-petclinic
	[INFO] Packaging webapp
	[INFO] Assembling webapp [spring-petclinic] in [F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\PetClinic- Package\target\spring-petclinic-4.2.5-SNAPSHOT]
	[INFO] Processing war project
	[INFO] Copying webapp resources [F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\PetClinic-
	Package/src/main/webapp]
	[INFO] Webap assembled in [5618 msecs]
	[INFO] Building war: F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\PetClinic-Package\target\petClinic.war
	[INFO] BUILD SUCCESS
	[INF0]
	INFOI Total time: 02:19 min
	[INFO] Finished at: 2017-05-26T22:56:23+05:30
	[INFO] Final Memory: 30M/102M
	[INF0]
	Waiting for Jenkins to finish collecting data
	[JENKINS] Archiving F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\PetClinic-Package\pom.xml to
	org.springframework.samples/spring-petclinic/4.2.5-SNAPSHOT/spring-petclinic-4.2.5-SNAPSHOT.pom
	[JENKINS] Archiving F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\PetClinic-Package\target\petclinic.war
	to org.springframework.samples/spring-petclinic/4.2.5-SNAPSHOT/spring-petclinic-4.2.5-SNAPSHOT.war
	channel stopped
	Finished: SUCCESS

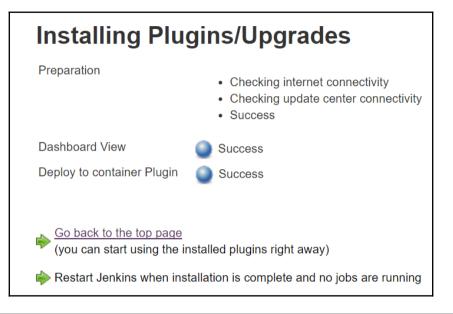
🔮 Jenkins					1 🔍 se	earch	(2) adm	in log out
Jenkins My Dashboard							DISABL	E AUTO REFRESH
쯜 New Item		All	My Da	shboard +			2	add descriptic
Build History		s	w	Name ↓	Last Success	Last Failure	Last Duration	
🚰 Edit View		0	A	PetClinic-Code	12 hr - <u>#18</u>	49 min - <u>#20</u>	1 min 34 sec	\bigotimes
S Delete View			*	PetClinic-Package	11 min - <u>#1</u>	N/A	4 min 51 sec	\bigotimes
Q Project Relationship		Icon: S	ML		Legend	DSS for all S DSS fo	r failures 🛛 📉 RSS for just	lateet huilde
🚛 Check File Fingerprint					<u>redend</u> W	<u>K35 I0i all</u> <u>M K35 I0</u>		iatest builds
🐡 Manage Jenkins		Test S	tatistics (Chart				* *
🌯 My Views					skipped = 0			
A Credentials					(0%) failed = 0			
Build Queue	-				(0%)			
No builds in the queue.								
						success = 59 (100%)		
Build Executor Status	-							
Build Executor Status 1 Idle 2 Idle	-					<u>(</u>)		

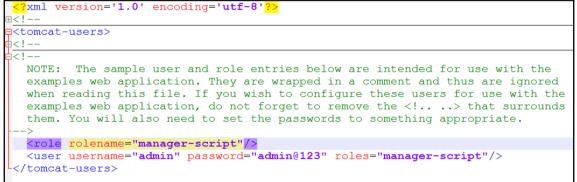


Chapter 05: Continuous Delivery -Implementing Automated Deployment



					Filter: Seploy to			
Updates	Available	Installed	Advanced					
Install ↓				Name	Version			
Dep	loy to containe	er Plugin			1.10			
Dep	loy to Websph	ere containe	r Plugin		1.0			
Install with	out restart	D	ownload now	and install after restart	Update information obtained: 1 day 2 hr ago			

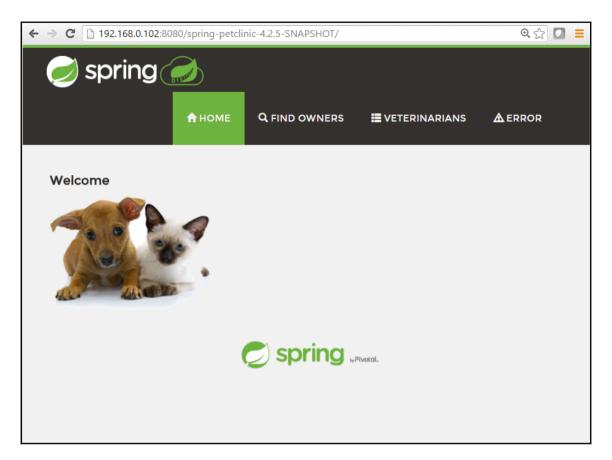


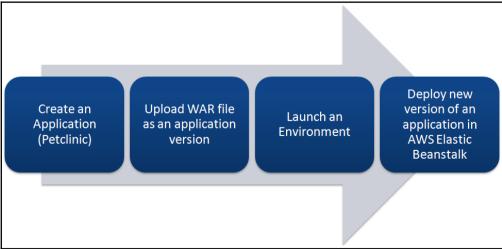


Copy artifacts from a	nother project X	
Project name	PetClinic-Package	?
	Artifacts will be copied from all modules of this Maven project; click the help icon to learn about selecting a particular module.	
Which build	Latest successful build	?
	Stable build only	
Artifacts to copy	target\petclinic.war	0
Artifacts not to copy		0
Target directory		0
Parameter filters		2
	☐ Flatten directories	?
	Advanced	

General	Source Coo	le Management	Build Triggers	Build Environment	t Build	Post-build Actions					
Post-b	Post-build Actions										
							X				
Depl	oy war/ear to	a container									
WAF	VEAR files	target\petclinic.w	ar					0			
Cont	ext path							0			
Cont	ainers	Tomcat 7.x					x				
		Manager u	ser name admi	n							
		Manager p	assword								
		Tomcat UR	L http://	//10.xxx.xxx.xxx:9999/							
		Add Container	-								
Depl	oy on failure										

```
Results :
Tests run: 59, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] --- maven-war-plugin:2.3:war (default-war) @ spring-petclinic ---
[INFO] Packaging webapp
[INFO] Assembling webapp [spring-petclinic] in [d:\jenkins\workspace\PetClinic-Test\target\spring-
petclinic-4.2.5-SNAPSHOT]
[INFO] Processing war project
[INFO] Copying webapp resources [d:\jenkins\workspace\PetClinic-Test\src\main\webapp]
[INFO] Webapp assembled in [1669 msecs]
[INFO] Building war: d:\jenkins\workspace\PetClinic-Test\target\spring-petclinic-4.2.5-SNAPSHOT.war
[INF0] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 28.772 s
[INFO] Finished at: 2016-07-06T22:59:37+05:30
[INFO] Final Memory: 29M/261M
[INFO] ------
Deploying d:\jenkins\workspace\PetClinic-Test\target\spring-petclinic-4.2.5-SNAPSHOT.war to container
Tomcat 7.x Remote
 [d:\jenkins\workspace\PetClinic-Test\target\spring-petclinic-4.2.5-SNAPSHOT.war] is not deployed.
Doing a fresh deployment.
 Deploying [d:\jenkins\workspace\PetClinic-Test\target\spring-petclinic-4.2.5-SNAPSHOT.war]
Finished: SUCCESS
```





VPC Dashboard	Resources 🕹				
Filter by VPC: None	Start VPC Wizard Launc	h EC2 Instances			
Virtual Private Cloud Your VPCs	Note: Your Instances will launch in the US East (N. Virginia) region.				
	You are using the following Amazon VPC resources in the US East (N. Virginia) region:				
Subnets	1 VPC	1 Internet Gateway			
Route Tables	4 Subnets	1 Route Table			
	1 Network ACL	0 Elastic IPs			
Internet Gateways	0 VPC Peering Connections	0 Endpoints			
DHCP Options Sets	0 Nat Gateways	1 Security Group			
Elastic IPs	0 Running Instances	0 VPN Connections			
Endpoints	0 Virtual Private Gateways	0 Customer Gateways			
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	you can confi	gure more optio	rm for your app. You can start with a sample app or upload your own code. Then, ons before you deploy your app. By creating an app, you allow AWS Elastic 8 resources and necessary permissions on your behalf. Learn more.	
	Applic	ation name	petclinic Maximum length of 100 characters, not including forward slash (/).	
		Platform	Tomcat Tomcat	
		App code	 Sample application Comes with instructions on how to configure your application. You can upload a new source code for this app later. 	
			Upload your own code You can upload a file or provide a URL to your app code in Amazon S3.	
ŀ	Elastic Beanstalk	petclinic 💌		Create New Application

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·	239287657 as Amazon S3 storage bucket for environment data.	

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Congratulations

Your first AWS Elastic Beanstalk Application is now running on your own dedicated environment in the AWS Cloud

vvnat s ivext

- Learn how to build, deploy and manage your own applications using AWS Elastic Beanstalk
- AWS Elastic Beanstalk concepts
- Learn how to create new application versions
- Learn how to manage your application environments

Download the AWS Reference Application

Explore a fully-featured reference application using the AWS SDK for Java

AWS Toolkit for Eclipse

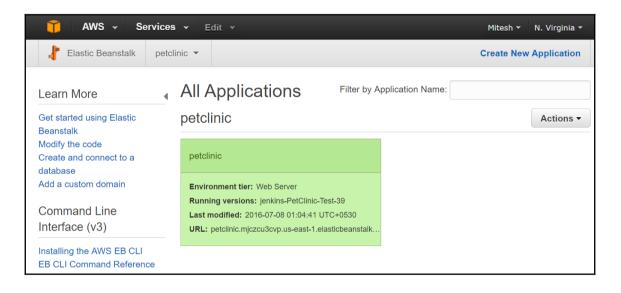
- Developers may build and deploy AWS Elastic Beanstalk applications directly from Eclipse
- Get started with Eclipse and AWS Elastic Beanstalk by watching this video
- View all AWS Elastic Beanstalk documentation

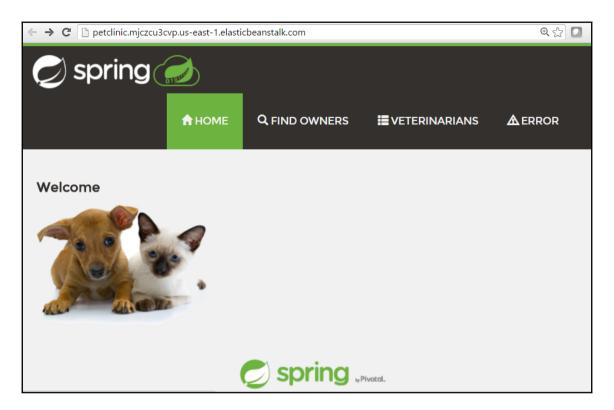
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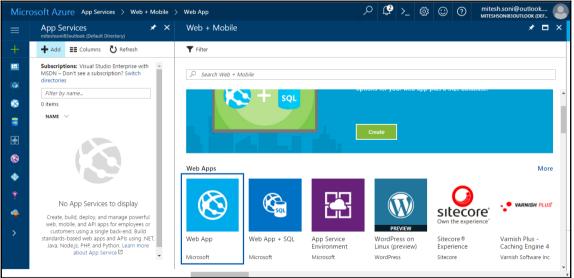
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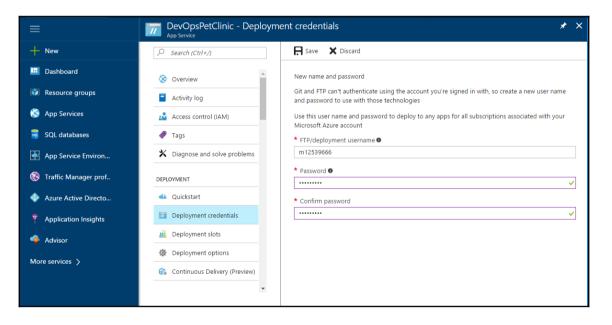
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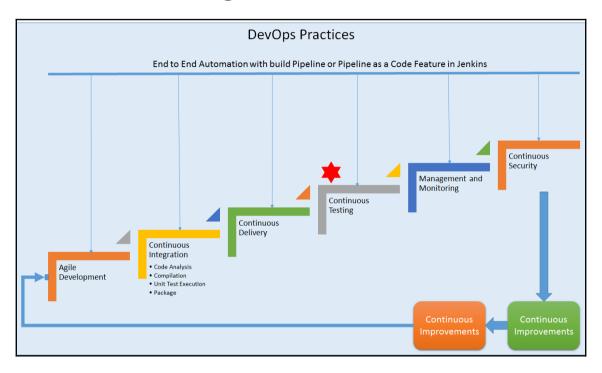
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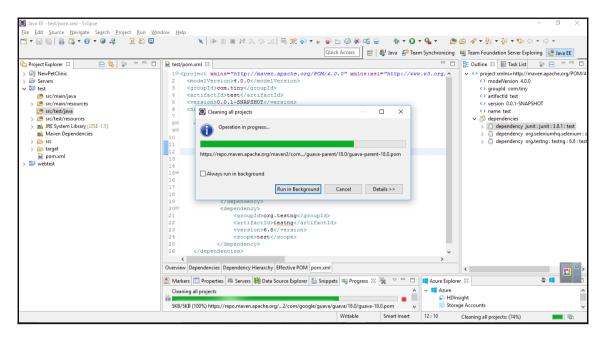
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Chapter 06: Continuous Testing - Functional and Load Testing with Jenkins



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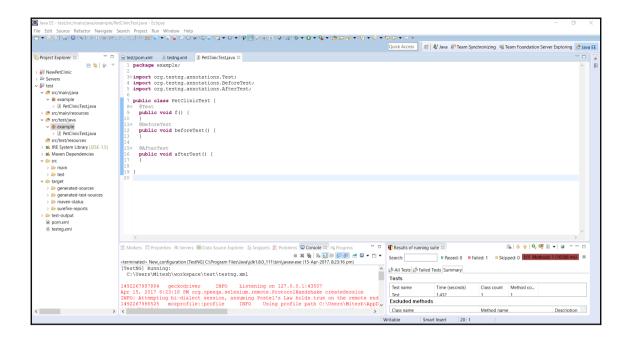


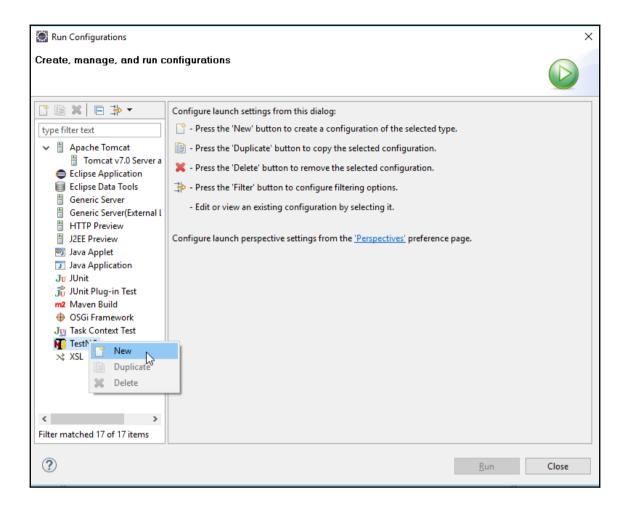
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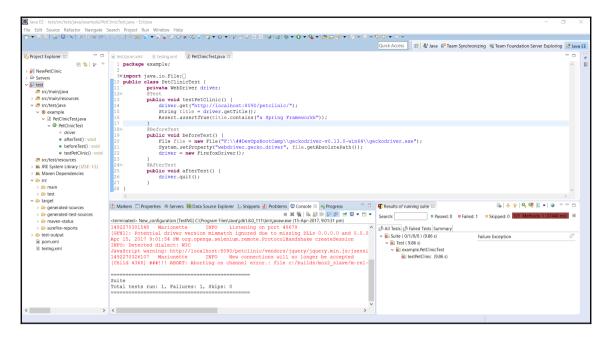
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	JavaScript warning: http://localhost:8090/petclinic/vendors/jquery/jquery.min.js;jsessionid=C47DD5AD79064BC5D2E6D260DC0E27A4, line 1: Using //@ to indicate sourceMappingURL pragmas i 149227020908 Marionette INFO New connections will no longer be accepted [Child 1515] ###1!! RADRT: Aborting on channel error: file c:/wilds/noc2 31we/m=rel=W32-000000000000000/build/src/ipc/glue/MessageChannel.cpp, line 2143				
	Suite				
	Total tests run: 1, Failures: 0, Skips: 0				
		~			
_					

😹 Java EE - test/src/test/java/example/PetO	linicTestjava - Eclipse	- 0 X
File Edit Source Refactor Navigate S		
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		Quick Access 🛛 😰 🖓 Java 🗗 Team Synchronizing 🖷 Team Foundation Server Exploring 📌 Java EE
Project Explorer 12 Image: Second	<pre>B testypon.xml & testng.xml @ PetOIncTestjava E: 1 package example; 2 package example; 2 provide class PetClinitTest { 11 public class PetClinitTest { 12 public class PetClinitTest { 13 public class PetClinitTest { 14 driver.get("http://localhost:8090/petClinic/"); 15 string title = driver.getTitle(); 16 driver.get("http://localhost:8090/petClinic/"); 17 assert.assertTrue(title:.contains("a Spring Framework")); 18 eMeforeTest 19 public void beforeTest() { 20 File file = new File("F:\\#PevopsBotCamp\\geckdriver-v0.13.0-win64\\ge 21 driver.getProperty("webOpsBotCamp\\geckdriver.getAbsolutePath()); 22 driver.enw FirefoxDriver(); 23 driver.getU(t); 24 driver.getU(t); 25 driver.getU(t); 26 driver.getU(t); 27 driver.getU(t); 28 driver.getU(t); 29 driver.getU(t); 20 driver.getU(t); 20 driver.getU(t); 20 driver.getU(t); 20 driver.getU(t); 21 driver.getU(t); 22 driver.getU(t); 23 driver.getU(t); 24 driver.getU(t); 25 driver.getU(t); 26 driver.getU(t); 27 driver.getU(t); 28 driver.getU(t); 29 driver.getU(t); 20 driver.g</pre>	
✓	27 } 28 }	v -
	<	→ → → → → → → → → → → → → → → → → → →
 > © generated-test-sources > © nave-statu > © surefire-reports > © test-output > © test-output > © max-nil 	terminated ¹ New configuration [TestNG] C:Program Files/awa/kdt.80,111/bin/awaw.exe (15-Apr 2017, 85938 pm) [FertE0] Examing: C:\UsersWitesh\vorkspace\test\testng.xml Apr 15, 2017 8:59:39 FM org.openga.selenium.remote.Protocollandshake createdession INFC: Attempting bi-dialect tession, assuming Postel's Law holds true on the remote end 1492270179982 mozprofile::profile INFO Using profile path C:\UsersWitesh\kappa(kdt) 1492270179982 mozprofile::profile INFO Connecting to Marinette on localhost:4 1492270179981 detiver::marinette INFO Statush Loss 0.0.0.0 and 0.0.0 1492270179981 detiver version mismatch ignored due to missing DLL 0.0.0.0.0 and 0.0.0 IFID: Detected dialect: W3C	

📓 Java EE - test/src/test/java/example/PetClinicTest.java - Eclipse	- a ×
File Edit Source Refactor Navigate Search Project Run Window Help	
▤▾▥▯▯▯▯◣◗◾ਲ਼ਸ਼੨੶ਸ਼≒ਲ਼ਲ਼ੵ੶ਲ਼₽₽ਲ਼ਲ਼ਸ਼ਲ਼ਗ਼ਲ਼੶ਲ਼੶₽ਗ਼₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽	• * * .
Quick	: Access 🔋 😁 💐 Java 🖞 Team Synchronizing 🦉 Team Foundation Server Exploring 🤹 Java EE
" 🔝 Markers 🗔 Properties 🦛 Servers 🎬 Data Source Explorer 🔝 Snippets 🛃 Problems 🗟 Console 😫 🦐 Progress	
terminated> New_configuration [TestNG] C\Program Files\Java\jdkl.8.0 111\bin\javaw.exe (15-Apr-2017, 9:01:31 pm)	
[TestNG] Running:	
C:\Users\Mitesh\workspace\testng.xml	e R
1492270293305 geckodriver INFO Listening on 127.0.0.1:48101	
Apr 15, 2017 9:01:33 PM org.openga.selenium.remote.ProtocolHandshake createSession	8
INFO: Attempting bi-dialect session, assuming Postel's Law holds true on the remote end 1492270294014 mozprofile::profile INFO Using profile path C:\Users\Mitesh\AppData\Local\Temp\rust mozprofile.7D	
1492270294018 geckodriver: marionette INFO Starting browser C:\Program Files (x86)\Mozilla Firefox\firefox.exe	and drive by
1492270294100 geckodriver::marionette INFO Connecting to Marionette on localhost:49679 [GFX1]: Potential driver version mismatch ignored due to missing DLLs 0.0.0.0 and 0.0.0.0	
lexx1: Potential driver version mismatch ignored due to missing DLS 0.0.0.0 and 0.0.0.0 1492270301548 Marionette INFO Listening on port 49679	
[GFX1]: Potential driver version mismatch ignored due to missing DLLs 0.0.0.0 and 0.0.0.0	
Apr 15, 2017 9:01:54 FM org.openga.selenium.remote.FrotocolHandshake createSession INFO: Detected dialect: W3C	
JavaScript warning: http://localhost:8090/petclinic/vendors/jquery/jquery.min.js;jsessionid=C30BB777FF19B0D7CF6040969C6E	7601, line 1: Using //@ to indicate sourceMappingURL pragmas i
1492270326107 Marionette INFO New connections will no longer be accepted	
[Child 4368] ###!!! ABORT: Aborting on channel error.: file c:/builds/moz2_slave/m-rel-w32-000000000000000000/build/srd	c/ipc/glue/MessageChannel.cpp, line 2143
Suite	
Total tests run: 1, Failures: 1, Skips: 0	
	~ ~
¢	>



👰 Jenkiı	Dpen Blue Ocean 1 Quesarch	admin	log out
Jenkins ▶ All ▶			
	Enter an item name		
	PetClinic-FuncTest		
	» Required field		
	Freestyle project This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.		
	Maven project Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.		
	Pipeline Orchestrates long-running activities 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 use Jenkins as a dashboard of your existing automation system.		
	or project that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.		

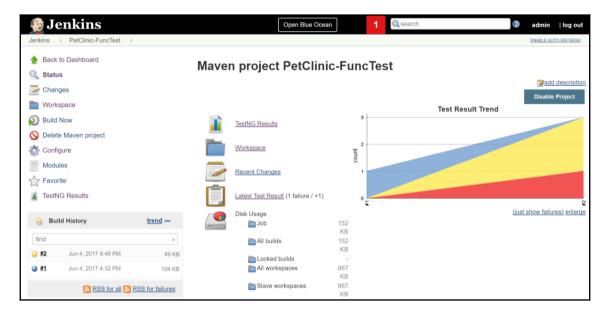
Jenkins	linic-FuncTest ►						
	General Source Code Mar	agement Build Triggers Build Environment Pre Steps Build Post Steps Build Settings					
	Post-build Actions						
	Build						
	Root POM	pom.xml	0				
	Goals and options	test	0				
		Advanced					
	Post Steps						
		Run only if build succeeds Run only if build succeeds or is unstable Run regardless of build result					
		Should the post-build steps run only for successful builds, etc.					
	Add post-build step 👻						
	Build Settings						
	E-mail Notification						
	Post-build Actions Save Apply						

теятя
Running TestSuite
1496574254522 geckodriver INFO Listening on 127.0.0.1:6486
Jun 04, 2017 4:34:14 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Attempting bi-dialect session, assuming Postel's Law holds true on the remote end
1496574255134 mozprofile::profile INFO Using profile path
C:\Users\Mitesh\AppData\Local\Temp\rust_mozprofile.t3u0Siy560nn
1496574255138 geckodriver::marionette INFO Starting browser C:\Program Files (x86)\Mozilla Firefox\firefox.exe
1496574255175 geckodriver::marionette INFO Connecting to Marionette on localhost:60430
[GFX1]: Potential driver version mismatch ignored due to missing DLLs 0.0.0.0 and 0.0.0.0
[GFX1]: Potential driver version mismatch ignored due to missing DLLs 0.0.0.0 and 0.0.0.0
1496574288578 Marionette INFO Listening on port 60430
Jun 04, 2017 4:34:49 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
JavaScript warning:
http://localhost:8090/petclinic/vendors/jquery/jquery.min.js;jsessionid=884F4251137D820A5723530BAA688915, line 1:
Using //@ to indicate sourceMappingURL pragmas is deprecated. Use //# instead
>>>>>PetClinic :: a Spring Framework demonstration
1496574305189 Marionette INFO New connections will no longer be accepted
Jun 04, 2017 4:35:12 PM org.openqa.selenium.os.UnixProcess destroy
SEVERE: Unable to kill process with PID 10376
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 69.499 sec - in TestSuite
Results :
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0

					Filter:	Same Testng	
Updates	Available	Installed	Advanced				
Install ↓			Nan	ne		Version	
✓ Test	tNG Results P	lugin			1.14		
Install with	out restart	D	ownload now	and install after restart	Update information obta	ined: 17 hr ago	Check now

General	Source Code Management	Build Triggers	Build Environment	Pre Steps	Build	Post Steps	Build Settings
Post-build	Actions						
Aggre	gate downstream test results						Advanced
	e the artifacts						
Build	other projects	-					
Calcua	alete disk usage of build						
Deploy	y artifacts to Maven repository	succeeds	Run only if build su	cceeds or is uns	table 💿 Ru	n regardless of	build result
Publis	h Performance test result report	s run only fe	or successful builds, etc.				
Publis	h TestNG Results 🛛 🖑						
Qualit	y Gates Sonarqube Plugin						
Recor	d fingerprints of files to track usage						
Git Pu	blisher						
Sonar	Qube analysis with Maven						
Deploy	y war/ear to a container						
Editab	le Email Notification						
Set Gi	tHub commit status (universal)						
Add pos	t-build action 👻						

Post-build Actions			
Publish TestNG Results		X	
TestNG XML report pattern	**/testng-results.xml		0
		Advanced	
Add post-build action 🔻			
Save Apply			



TestNG Results Trends

Need at least 2 builds with results to show trend graph

Latest Test Results (build #2)

- Total Tests: 1 (+1)
- Failed Tests: 0 (±0)
- Skipped Tests: 1 (+1)
 1. example.PetClinicTest.testPetClinic
- Failed Configurations: 1 (+1)
 1. example.PetClinicTest.beforeTest
- Skipped Configurations: 1 (+1)
 - 1. example.PetClinicTest.afterTest

PetClinic.jmx (C:\Users\Mitesh\Desktop\PetClinic.jmx) - Apacl	he IMeter (3.0 r1743807)		- a ×
Elle Edit Search Run Options Help			
	- 🔗 🕨 🔊 💿 🔖 🖦 😒 🖉 🍘 🌭 🏭 🛛		0:00:00:00 0 🛕 0 / 0 🗯
Test Plan Orread Group	HTTP Request		
- MTTP Request	Name: HTTP Request		
WorkBench	Comments:		
	Basic Advanced		
	Web Server	Timeouts (milliseconds)	
	Server Name or IP: localhost	Port Number: 8090 Connect:	Response:
	HTTP Request		
	Implementation: Protocol [http]: Method: GET Content enco	oding:	
	Path: petclinic		
	Redirect Automatically Relinets R Use KeepAlive Use multipertiform data for POST Browser-compatib	le headers	
	Parameters Body Data Files Upload		
	Sen	d Parameters With the Request:	
	Name:	Value	Encode? Include Equals?
	Detail Add Ar	dd from Clipboard Delete Up Down	
	Proxy Server		
	Server Name or IP: Port	Number: Username Password	

🔮 Jenki	Ins Open Blue Ocean 1 Search admin	log out
Jenkins > All >	>	
	Enter an item name	
	PetClinic-LoadTest	
	» Required field	
-		
	Freestyle project This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.	
	Maven project Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.	
	Pipeline Orchestrates long-running activities 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 use Jenkins as a dashboard of your existing automation system.	
	OK ulti-configuration project	

Jenkins PetCl	inic-LoadTest →
	General Source Code Management Build Triggers Build Environment Build Post-build Actions
	Build
	Execute Windows batch command
	Command C:\ <u>apache-jmeter-3.0</u> \bin\jmeter.bat -Jjmeter.save.saveservice.output_format=xml -n -t C:\Users\ <u>Mitesh</u> \Desktop\ <u>PetClinic.jmx</u> -1 <u>Test.jtl</u>
	See the list of available environment variables
	Advanced
	Add build step 👻
	Post-build Actions
	Add post-build action 👻
	Save Apply

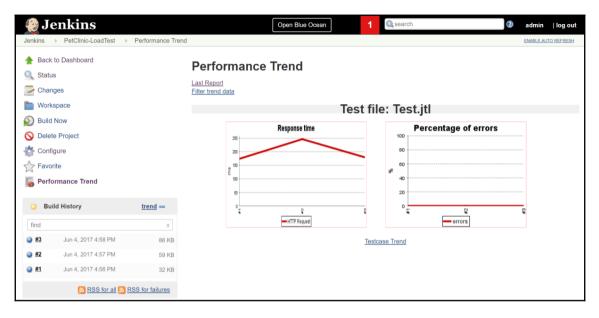
Jenkins		1
	Aggregate downstream test results	Triggers Build Environment Build Post-build Actions
	Archive the artifacts	
	Build other projects	<pre>neter.bat -Jjmeter.save.saveservice.output_format=xml -n -t</pre>
	Calcualete disk usage of build	tClinic.jmx -l Test.jtl
	Publish JUnit test result report	
	Publish Javadoc	
	Publish Performance test result report]
	Publish TestNG Results	nt variables
	Quality Gates Sonarqube Plugin	Advanced
	Record fingerprints of files to track usage	
	Git Publisher	
	SonarQube analysis with Maven	
	Deploy war/ear to a container	
	E-mail Notification	
	•	
	Add post-build action -	
	Save Apply	

ns				
General Source Code Mana	gement Build Triggers Build Environn	nent Build Post-b	uild Actions	
Post-build Actions				
Publish Performance test result report	t			X
Source data files (autodetects format):	**/*.jtl			
Performance display	 Performance Per Test Case Mode 			
	Show Throughput Chart			
Select graphed metric	Average Response Time			•
Select evaluation mode	Expert Mode Standard Mode			
	Standard Mode			
	Select mode:	Relative Threshold	d Error Threshold	
	Build result:	Fail build when res	sult files are not present	
	Use Error thresholds on single build:	Unstable	-1	
		Failed	-1	
Save				Advanced

Console Output

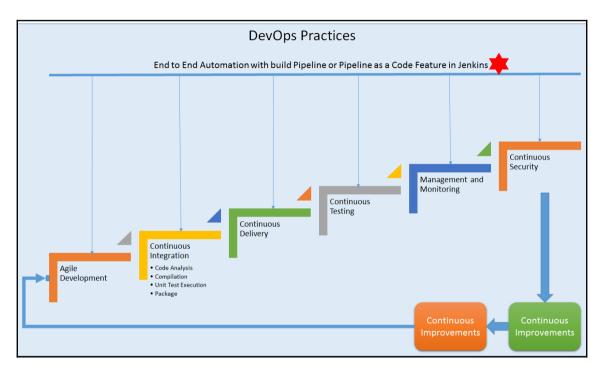
Started by user admin Building in workspace F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\PetClinic-LoadTest [PetClinic-LoadTest] \$ cmd /c call C:\Users\Mitesh\AppData\Local\Temp\jenkins1396957989406107476.bat F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\PetClinic-LoadTest>C:\apache-jmeter-3.0\bin\jmeter.bat -Jjmeter.save.saveservice.output_format=xml -n -t C:\Users\Mitesh\Desktop\PetClinic.jmx -l Test.jtl Writing log file to: F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\PetClinic-LoadTest\jmeter.log Creating summariser <summary> Created the tree successfully using C:\Users\Mitesh\Desktop\PetClinic.jmx Starting the test @ Sun Jun 04 16:56:19 IST 2017 (1496575579885) Waiting for possible Shutdown/StopTestNow/Heapdump message on port 4445 summary = 50 in 00:00:09 = 5.4/s Avg: 175 Min: 5 Max: 2724 Err: 0 (0.00%) @ Sun Jun 04 16:56:29 IST 2017 (1496575589522) Tidving up end of run Java HotSpot(TM) 64-Bit Server VM warning: MaxNewSize (4194304k) is equal to or greater than the entire heap (4194304k). A new max generation size of 4193792k will be used. Performance: Recording JMeter reports '**/*.jtl' Performance: Parsing JMeter report file 'F:\#JenkinsEssentials\FirstDraft\jenkinsHome\jobs\PetClinic-LoadTest\builds\1\performance-reports\JMeter\Test.itl'. Performance: Percentage of errors greater or equal than 0% sets the build as unstable Performance: Percentage of errors greater or equal than 0% sets the build as failure Performance: File Test.jtl reported 0.0% of errors [SUCCESS]. Build status is: SUCCESS Started calculate disk usage of build Finished Calculation of disk usage of build in 0 seconds Started calculate disk usage of workspace Finished Calculation of disk usage of workspace in 0 seconds Finished: SUCCESS

🧕 Jenkins		Open Blue Ocean	1 Q search	admin log out
Jenkins > PetClinic-LoadTest >				ENABLE AUTO REFRESH
Back to Dashboard Status	I	Project PetClinic-LoadTest		
Changes				Zadd description
Workspace				Disable Project Performance Trend
Build Now Opelete Project		Workspace		Response time
Configure		Last Successful Artifacts	250	
Favorite		Recent Changes	۲۵۵ ۱۵۵	
Performance Trend		Disk Usage	50	
🔅 Build History	trend -	Job 178 KB	· · · · · · · · · · · · · · · · · · ·	90% line — average — median
find	x	Locked builds - All workspaces 82 KB		Percentage of errors
(a) #3 Jun 4, 2017 4:58 PM	86 KB	Slave workspaces 82 KB	80	
Jun 4, 2017 4:57 PM	59 KB		 %	
Jun 4, 2017 4:56 PM	32 KB	Permalinks	40	
💦 RSS for all 🔊 R	SS for failures	Last build (#3), 1 min 21 sec ago Last stable build (#3), 1 min 21 sec ago lost susceptible build (#3), 1 min 21 sec ago	20	2 g



🧕 Jenkins			Open Bl	ie Ocean	1	🔍 search			adulta	nin log ou
Jenkins → PetClinic-LoadTest → #3 → Per	formance								ENA	LE AUTO REFRESH
A Back to Project	Performa	nce Bre	akdown l	oy URI: Te	est.jtl					
Q Status	250 +		F	Response	time					
Console Output	200									
Edit Build Information	se 150									
🚫 Delete Build	100							Res	ponse time tr	ends for build:
Performance Report	50									
< Previous Build	0 <u>1</u>			Se average	9		C.			
	"PetClinic-Load									
	URI HTTP Request	Samples 150 ⁺⁰	Average (ms)	Median (ms) 65 ⁰	Line90 (ms) 240	Minimum (ms)	Maximum (ms) 9309		Errors (%)	Average (KB
	All URIs	150 +0		64 ⁰	238	5	9309	200	0.0 % 0.0 %	9.7

Chapter 07: Build Pipeline and Pipeline as a Code



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Jenkins ▶ All	>		
	Enter an item name		
	PetClinic-Prod		
	» Required field		
	Freestyle project This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.		
	Maven project Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.		
	Pipeline Orchestrates long-running activities 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.		
r	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 use Jenkins as a dashboard of your existing automation system.		
	OK ulti-configuration project		

Deploy war/ear	o a container			X	
WAR/EAR files	target/petclinic.war				
Context path					
Containers	Tomcat 7.x Manager user name	mitesh51		X	
	Manager password	http:// <remote_ip_a< td=""><td>.ddress>:8090/</td><td></td><td></td></remote_ip_a<>	.ddress>:8090/		
	Add Container 👻				
Deploy on failure					

Jenkins	ic-Code >>
	General Source Code Management Build Triggers Build Environment Build Post-build Actions
	Additional arguments
	· · · · · · · · · · · · · · · · · · ·
	Archive the artifacts
	Build other projects
	Calcualete disk usage of build
	Publish JUnit test result report
	Publish Javadoc
	Publish Performance test result report
	Publish TestNG Results
	Quality Gates Sonarqube Plugin
	Record fingerprints of files to track usage
	Git Publisher ient addresses. May reference build parameters like \$PARAM. E-mail will be sent when a build fails, becomes
	SonarQube analysis with Maven
	Deploy warrear to a container
	E-mail Notification iduals who broke the build
	Add post-build action -
	Save Apply

Clinic-Code						
General Source	Code Management	Build Triggers	Build Environment	Build	Post-build Actions	
Post-build Ac	tions					
E-mail Notifica	tion					
Recipients	@gmail.co	om				
_	Send e-mail for every Send separate e-mai		o broke the build			
Projects to build	PetClinic-Package					
		,				
	Trigger only if b	ouild is stable				
	Trigger even if	the build is unstable	e			
	 Trigger even if 	the build fails				
Add post-build action	on 👻					
Save	ly					

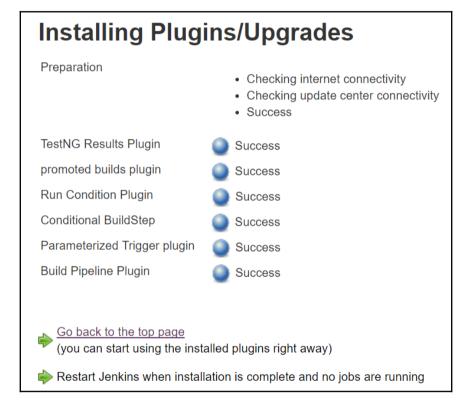
PetClin	iic-Package	Þ								
	General	Source Co	de Management	Build Triggers	Build Environment	Pre Steps	Build	Post Steps	Build Settings	
	Post-build /	Actions								
	E-mail N	Notification								
-	Post-bi	uild Acti	ons							
	Build	l other proje	cts						X	•
	Proje	ects to build	PetClinic-Deploy							
			Trigger only if b	uild is stable						
			Trigger even if	the build is unstable	•					
			Trigger even if	the build fails						
	Add post	-build action	•							
	Save	Apply								

General Source Co	de Management Buil	d Triggers	Build Environment calhost:8090/	Build	Post-build Actions	
	TOILCALORE	nup.//io	canost.6090/			
	Add Container 👻					
Deploy on failure						
Build other proje	cts					X
Projects to build	PetClinic-FuncTest					
Projects to build						
	 Trigger only if build is 	stable				
	 Trigger even if the bui 	d is unstable	3			
	 Trigger even if the bui 	d fails				
Add post-build action	-					
Save Apply						

linic-FuncTest General Source Co	ode Management	Build Triggers	Build Environment	Pre Steps	Build	Post Steps	Build Settings	
Post-build Actions								
Post-build Acti	ons							
Publish TestNG	Results						X	
TestNG XML repo	ort pattern **/testng	j-results.xml						
							Advanced	
Build other proje	ects						X	0
Projects to build	PetClinic-LoadTest							
	Trigger only if b							
	 Trigger even if t Trigger even if t 		3					
Add post-build action	-							
Save Apply	,							

nic-LoadTest ►					
General Source Co	de Management Build Trigger	rs Build Environment	Build Post	-build Actions	
	Constr	Save cor	nstable Builds straint log to works constraint •	pace	
Build other proje					
Projects to build	PetClinic-Prod				
	 Trigger only if build is stable 				
	Trigger even if the build is unst	table			
	Trigger even if the build fails				
Add post-build action	•				
Save					

			Filter: 🤐 Build Pip	
Updates	Available	Installed Advanced		
Install ↓			Name	Version
<u>B</u>	1 0 1	ovides build pipeline functiona	ality to Hudson and Jenkins. This allows a chain of jobs to be visualise n be triggered by a user with the appropriate permissions manually	^{d in} 1.5.6
Install wi	thout restart	Download now and	d install after restart Update information obtained: 17 hr ago	Check now



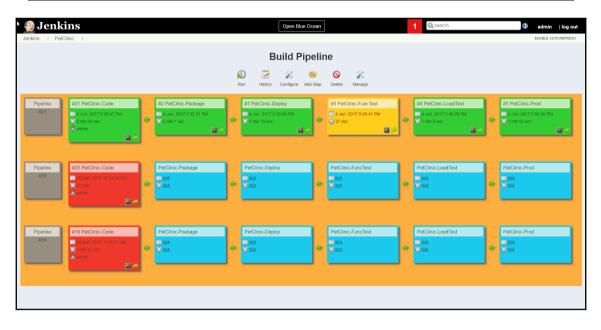
没 Jenkins		Open Blue Ocean Search @ admin log out
Jenkins 🕨		
 New Item People Build History Project Relationship Check File Fingerprint Manage Jenkins My Views Disk Usage 		 View name PetClinic Build Pipeline View Shows the jobs in a build pipeline view. The complete pipeline of jobs that a version propagates through are shown as a row in the view. Dashboard Customizable view that contains various portlets containing information about your job(s) 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.
<table-of-contents> Credentials</table-of-contents>		ок
Build Queue	-	
No builds in the queue.		
Build Executor Status	-	

👰 Jenkins			Open Blue Ocean	1	earch 🕜 admin log	g out
Jenkins						
쯜 New Item		Name		PetClinic		
🍓 People		Description				-
Build History						
💮 Edit View						•
🚫 Delete View						4
Project Relationship			i	[Plain text] Preview	<u> </u>	
E Check File Fingerprint		Filter build queue				
Manage Jenkins		Filter build executors				
alla		Build Pipeline View Title				
🍓 My Views		Pipeline Flow				
Disk Usage		-				_
🥋 Credentials		Layout		Based on upstrea	am/downstream relationship	•
Build Queue	_				This layout mode derives the pipeline structure based on the upstream/downstream trigger relationship between jobs. This is the only out-of-the-box supported layout mode, but is open for extension.	
No builds in the queue.				Upstream / down	stream config	
				Select Initial Job	PetClinic-Code	
Build Executor Status	-					_
1 Idle		OK Apply				
2 Idle						

Restrict triggers to most recent successful builds	🖇 🔍 Yes 🖲 No	
Always allow manual trigger on pipeline steps	Yes No	
Display Options		
No Of Displayed Builds	3	
Row Headers	Just the pipeline number	
	Show just the build pipeline number	
Column Headers	No header	
	Do not show any column headers	
Refresh frequency (in seconds)	3	
URL for custom CSS files		
Console Output Link Style	Lightbox	
Console Output Link Style	Lightbox	

😥 Jenkins			Open Blue Ocean		1 🔍 sea	arch		3	admin log out
Jenkins > PetClinic >									ENABLE AUTO REFRESH
		s)	Build Pipeline		5.e				
		Run Hist		©)elete	X Manage				
Pipeline #20 PetClinic-Code #20 #20 23 acc 23 acc 24 acc	PetClinic-Package		PetClinic-Deploy		PetClinic-FuncTest	\$	PetClinic-LoadTest		PetClinic-Prod
Pipeline #19 PetClinic-Code	PetClinic-Package		PetClinic-Deploy		PetClinic-FuncTest		PetClinic-LoadTest		PetClinic-Prod
26 May, 2017 11:05:21 AM 21 mm 51 sec. ▲ admin			INA INA		INA INA	\$			INA Olinia
									•
Pipeline #18 PetClinic-Code #18 = 26 May, 2017 10 59:46 AM © 1 min 34 sec = admin	PetClinic-Package		PetClinic-Deploy		PetClinic-FuncTest		PetClinic-LoadTest		PetClinic-Prod

General Source C	ode Management	Build Triggers	Build Environment	Pre Steps	Build	Post Steps	Build Settings	
Post-build Actions								
Post-build Act	ions							
Publish TestNG	Results						X	
TestNG XML repo	ort pattern **/testn	g-results.xml						0
							Advanced	
Build other proje	ects						X	0
Projects to build	PetClinic-LoadTes	t						
	 Trigger only if b 	uild is stable						
	Trigger even if	the build is unstable	Э					
	Trigger even if	the build fails						



Upda	ates Available	Installed	Advanced		
Install	Ļ			Name	Version
	Blue Ocean				
				s the user experience of Jenkins. Designed from the ground up for Jenkins obs, Blue Ocean reduces clutter and increases clarity for every member of	1.0.1
	Common API for E	<u>Blue Ocean</u>			1.0.1
	Config API for Blue	<u>e Ocean</u>			1.0.1
	Dashboard for Blu	<u>e Ocean</u>			1.0.1
	Events API for Blu	e Ocean			1.0.1
	Git Pipeline for Blu	<u>ue Ocean</u>			1.0.1
	GitHub Pipeline fo	r Blue Ocear	1		1.0.1
	i18n for Blue Ocea	an			1.0.1
	JWT for Blue Ocea	an			1.0.1
	Personalization for	r Blue Ocear	1		1.0.1

Common API for Blue Ocean	Success
Variant Plugin	Success
Jackson 2 API Plugin	Success
Metrics Plugin	Success
Web for Blue Ocean	Success
REST API for Blue Ocean	Success
JWT for Blue Ocean	Success
Favorite	Success
REST Implementation for Blue Ocean	Success
Pipeline REST API for Blue Ocean	Success
Pub-Sub "light" Bus	Success
GitHub Pipeline for Blue Ocean	Success
Git Pipeline for Blue Ocean	Success
Config API for Blue Ocean	Success
Server Sent Events (SSE) Gateway Plugin	Success
Events API for Blue Ocean	Success
Personalization for Blue Ocean	Success
BlueOcean Display URL plugin	Success
Blue Ocean Pipeline Editor	Success
Autofavorite for Blue Ocean	Success
i18n for Blue Ocean	Success
Dashboard for Blue Ocean	Success
Blue Ocean	Success

🛞 Jenkir	Dpen Blue Ocean 1 (search admin log	out
Jenkins All		
	Enter an item name	
	FirstPipeline	
	» Required field	
	Freestyle project This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build. Image: Second Secon	
	or utto-onfiguration project table for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.	

🧶 Jenkins	Open Blue Ocean	1 Qsearch	(2) admi	n log out
Jenkins				
General Build Triggers Advanced Project Options	s Pipeline			
Pipeline name FirstPipeline				
Description				
[Plain text] <u>Preview</u>				
Enable project-based security				
Discard old builds			•	
Do not allow concurrent builds				
GitHub project				
This project is parameterized			0	
Throttle builds			0	
Build Triggers				
Save Apply are built			®	
Build periodically			0	

General Build	Triggers Advanced Project Options	Pipeline	
Pipeline			
Definition	Pipeline script	7	
	Script 1	try sample Pipeline ▼ try sample Pipeline Hello Word GitHub + Maven	Ø
	Use Groovy Sandbox Pipeline Syntax		0
Save	ppiy		

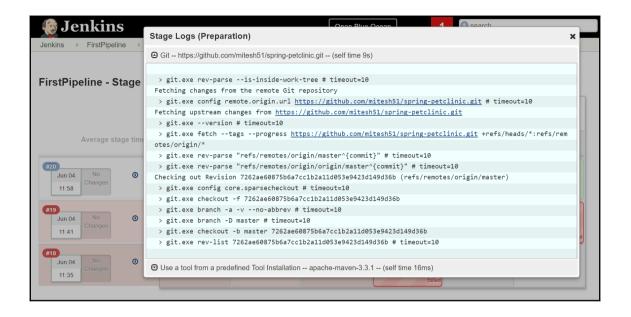
General Build	d Triggers	Advanced Project Options	Pipeline			
Pipeline						
Definition	Pipeline scri	pt			T	
	Script	1 - node { 2 def mvnHome			GitHub + Maven 🔻	
		<pre>4</pre>	Maven tool. This 'M3' Maven tool m in the global configur. ool 'M3' { maven build)) { vnHome}/bin/mvn' -Dmaven	ository ole-maven-project-with-tests.git' ust be configured		٩
	Pipeline Synt	Use Groovy Sandbox ax				8
Save	Apply	Suntav				
A Back		Overview				
📥 Snippet Generate	or		enerator will help you learn the Pi	peline Script code which can be used to define vari	ous steps. Pick a step you are ir	iterested
Step Reference				e Script, and you will see a Pipeline Script statem statement into your script, or pick up just the option		
 Global Variables F 	Reference		n be omitted in your script, leaving		is you care about. (most parame	1013 010
 Online Documenta 		Steps				
IntelliJ IDEA GDS		Sample Step	junit: Publish JUnit test result rep	ort		•
	-		Test report XMLs	target/test-reports/*.xml Eleset includes: setting that specifies the generated raw XML Basedri of the fileset is th <u>a workspace noc</u> l	eport files, such as 'myproject/target/tes	e
				Retain long standard output/error		0
			Health report amplification factor	1.0		0
				1% failing tests scores as 99% health. 5% failing to	ests scores as 95% health	
			Allow empty results	Do not fail the build on empty test results		Ø
		Generate Pi	peline Script			

😥 Jenkins		Open Blue Oce	ean 1	1	🔍 search	admin log out
Jenkins → FirstPipeline →						ENABLE AUTO REFRESH
Back to Dashboard Status	Pipelir	ne FirstPipeline				
Changes						add description
 Build Now Delete Pipeline 		ast Successful Artifacts	452 💼		Performance Trend Throughput	
Configure Full Stage View			B <u>view</u> 9.99 ■ MB <u>view</u>	Second &	moughput	
SonarQube	R	lecent Changes		Requests Per Second		
 Pipeline Syntax 	Stage Vi	ew		Pan a		
😹 Build History	trend 👄				Requests Per Second	
find	x			15		
Jun 4, 2017 11:58 AM	Ŵ			٤ 10 E		
Jun 4, 2017 11:41 AM	1			5		
🥥 #18 Jun 4, 2017 11:35 AM	1			0		

Jenkins enkins + FirstPipeline + Ful	I Stage View		Open Blue	Ocean 1	Q search						
FirstPipeline - Stage View											
	Preparation	SonarQube analysis	Build	Deploy	Functional Test	Load Test					
Average stage times:	11s	1min 13s	1min 58s	1min 13s	2min 5s	7s					
#20 No O Jun 04 Changes	9s	1min 2s	2min 11s	2min 38s	2min 1s	12s					
#19 Jun 04 No 11:41	4s	52s	1min 39s	52s	2min 8s	1s failed					
#18 Jun 04 No 11:35	19s	1min 44s	2min 4s	8s failed							

FirstPipeline - Stage View									
	Success Preparation	SonarQube analysis	Build	Deploy	Functional Test	Load Test			
Average stage times:	.lı Logs	1min 13s	1min 58s	1min 13s	2min 5s	7s			
#20 Jun 04 11:58	9s⊳	1min 2s	2min 11s	2min 38s	2min 1s	12s			
#19 Jun 04 11:41	4s	52s	1min 39s	52s	2min 8s	1s failed			
#18 Jun 04 11:35	19s	1min 44s	2min 4s	8s failed					

Jenkins FirstPipeline	Stage Logs (Prepar	ration)	Open Plue	Occan	Search	×
FirstPipeline - Stage	 Git https://github.co Use a tool from a pre 					
Average stage time	Success Preparation	SonarQube analysis 1min 13s	Build 1min 58s	Deploy 1min 13s	Functional Test 2min 5s	Load Test
#20 Jun 04 11:58	9s	1min 2s	2min 11s	2min 38s	2min 1s	12s
#19 Jun 04 No Changes	4s	52s	1min 39s	52s	2min 8s	1s failed
#18 Jun 04 11:35	19s	1min 44s	2min 4s	8s failed		



Console Output

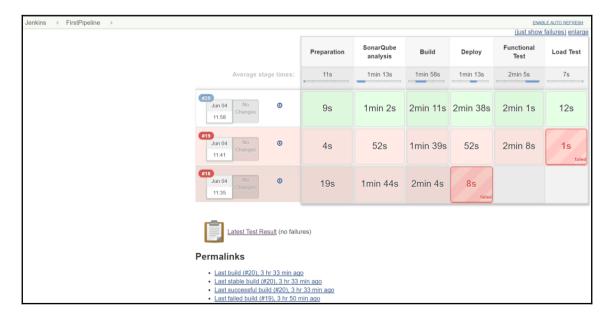
```
Started by user admin
[Pipeline] node
Running on master in F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstPipeline
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Preparation)
[Pipeline] git
> git.exe rev-parse --is-inside-work-tree # timeout=10
Fetching changes from the remote Git repository
> git.exe config remote.origin.url https://github.com/mitesh51/spring-petclinic.git # timeout=10
Fetching upstream changes from https://github.com/mitesh51/spring-petclinic.git
> git.exe --version # timeout=10
> git.exe fetch --tags --progress <u>https://github.com/mitesh51/spring-petclinic.git</u>
+refs/heads/*:refs/remotes/origin/*
> git.exe rev-parse "refs/remotes/origin/master^{commit}" # timeout=10
 > git.exe rev-parse "refs/remotes/origin/origin/master^{commit}" # timeout=10
Checking out Revision 7262ae60875b6a7cc1b2a11d053e9423d149d36b (refs/remotes/origin/master)
> git.exe config core.sparsecheckout # timeout=10
 > git.exe checkout -f 7262ae60875b6a7cc1b2a11d053e9423d149d36b
 > git.exe branch -a -v --no-abbrev # timeout=10
 > git.exe branch -D master # timeout=10
 > git.exe checkout -b master 7262ae60875b6a7cc1b2a11d053e9423d149d36b
 > git.exe rev-list 7262ae60875b6a7cc1b2a11d053e9423d149d36b # timeout=10
[Pipeline] tool
```

[Pipeline] stage [Pipeline] { (SonarQube analysis) [Pipeline] tool [Pipeline] wrap Injecting SonarQube environment variables using the configuration: Sonarqube6.3 [Pipeline] { [Pipeline] bat [FirstPipeline] Running batch script F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstPipeline>F:\#JenkinsEssentials\FirstDraft\jenkinsHome\t ools\hudson.plugins.sonar.SonarRunnerInstallation\SonarQube_Scanner_3.0.3/bin/sonar-scanner -Dsonar.host.url=<u>http://localhost:9000/</u> -Dsonar.login=****** -Dsonar.projectVersion=1.0 -Dsonar.projectKey=petclinicKey -Dsonar.sources=src INFO: Scanner configuration file: F:\#JenkinsEssentials\FirstDraft\jenkinsHome\tools\hudson.plugins.sonar.SonarRunnerInstallation\SonarQube Scanner 3 .0.3\bin\..\conf\sonar-scanner.properties INFO: Project root configuration file: F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstPipeline\sonarproject.properties INFO: SonarQube Scanner 3.0.3.778 INFO: Java 1.8.0_111 Oracle Corporation (64-bit) INFO: Windows 10 10.0 amd64 INFO: User cache: C:\Users\Mitesh\.sonar\cache INFO: Load global settings INFO: Load global settings (done) | time=3968ms INFO: User cache: C:\Users\Mitesh\.sonar\cache INFO: Load plugins index INFO: Load plugins index (done) | time=138ms INFO: SonarQube server 6.3.1

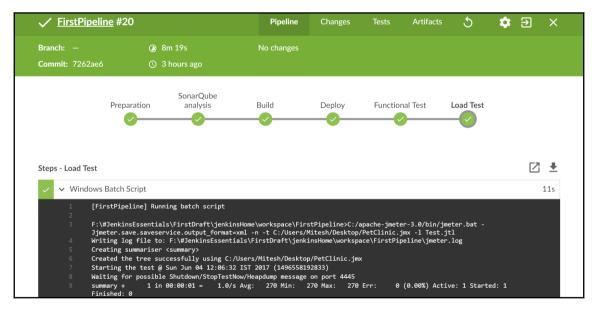
[Pipeline] stage [Pipeline] { (Build) [Pipeline] isUnix [Pipeline] bat [FirstPipeline] Running batch script F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstPipeline>"C:\apache-maven-3.3.1\bin\mvn" clean package [INFO] Scanning for projects... [INFO] [INF0] -----[INFO] Building petclinic 4.2.5-SNAPSHOT [INFO] -----[INFO] [INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ spring-petclinic ---[INFO] Deleting F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstPipeline\target [INFO] [INFO] --- cobertura-maven-plugin:2.7:clean (default) @ spring-petclinic ---[INFO] [INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ spring-petclinic ---[INFO] Using 'UTF-8' encoding to copy filtered resources. [INFO] Copying 18 resources [INFO] [INFO] --- maven-compiler-plugin:3.0:compile (default-compile) @ spring-petclinic ---[INFO] Changes detected - recompiling the module! [INFO] Compiling 45 source files to F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstPipeline\target\classes [parsing started RegularFileObject[F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstPipeline\src\main\java\org\springfram ework\samples\petclinic\web\PetValidator.java]] [parsing completed 219ms]

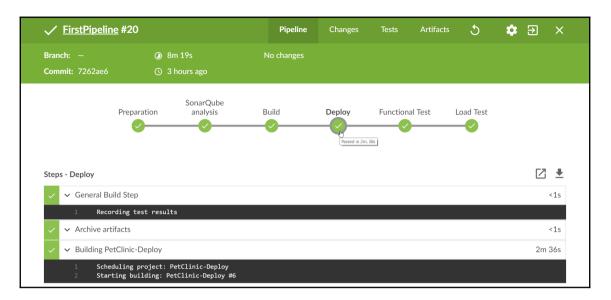
[INFO] Building war: F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstPipeline\target\petclinic.war [INFO] -----[INFO] BUILD SUCCESS [INFO] -----[INFO] Total time: 02:03 min [INFO] Finished at: 2017-06-04T12:01:43+05:30 [INFO] Final Memory: 27M/88M [INFO] ------[Pipeline] } [Pipeline] // stage [Pipeline] stage [Pipeline] { (Deploy) [Pipeline] step Recording test results [Pipeline] archive [Pipeline] build (Building PetClinic-Deploy) Scheduling project: PetClinic-Deploy Starting building: PetClinic-Deploy #6 [Pipeline] } [Pipeline] // stage [Pipeline] stage [Pipeline] { (Functional Test) [Pipeline] git > git.exe rev-parse --is-inside-work-tree # timeout=10 Fetching changes from the remote Git repository > git.exe config remote.origin.url <u>https://github.com/mitesh51/petclinic-func.git</u> # timeout=10 Fetching upstream changes from https://github.com/mitesh51/petclinic-func.git > git.exe --version # timeout=10 > git.exe fetch --tags --progress https://github.com/mitesh51/petclinic-func.git +refs/heads/*:refs/remotes/origin/*

Results : Tests run: 1, Failures: 0, Errors: 0, Skipped: 0 [INFO] -----[INFO] BUILD SUCCESS [INFO] -----_____ [INFO] Total time: 01:42 min [INFO] Finished at: 2017-06-04T12:06:24+05:30 [INFO] Final Memory: 18M/80M [INF0] -----[Pipeline] } [Pipeline] // stage [Pipeline] stage [Pipeline] { (Load Test) [Pipeline] bat [FirstPipeline] Running batch script F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstPipeline>C:/apache-jmeter-3.0/bin/jmeter.bat -Jjmeter.save.saveservice.output_format=xml -n -t C:/Users/Mitesh/Desktop/PetClinic.jmx -l Test.jtl Writing log file to: F:\#JenkinsEssentials\FirstDraft\jenkinsHome\workspace\FirstPipeline\jmeter.log Creating summariser <summarv> Created the tree successfully using C:/Users/Mitesh/Desktop/PetClinic.jmx Starting the test @ Sun Jun 04 12:06:32 IST 2017 (1496558192833) Waiting for possible Shutdown/StopTestNow/Heapdump message on port 4445 summary + 1 in 00:00:01 = 1.0/s Avg: 270 Min: 270 Max: 270 Err: 0 (0.00%) Active: 1 Started: 1 Finished: 0 13 Min: 157 Err: 0 (0.00%) Active: 0 Started: 1 summarv + 49 in 00:00:01 = 61.1/s Avg: 4 Max: Finished: 1 summarv = 50 in 00:00:02 = 27.0/s Avg: 18 Min: 4 Max: 270 Err: 0 (0.00%)



			Pipelines	Administ	Q ☆☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑☑		
🌰 Fir	stPipeliı	ne 🕇 🌣			Activity	Branches	Pull Requests
Run]						
Status	Run	Commit	Message	Dur	ation	Completed	
	20	7262ae6		8m	19s	3 hours ago	5
×	19	7262ae6		5m	44s	4 hours ago	5
×	18	7262ae6	-	4m	18s	4 hours ago	5
			1.0.1 · Core 2.61 · 9b77619 · (no brar	ch) • 12th April 2017 02:47 A	M		



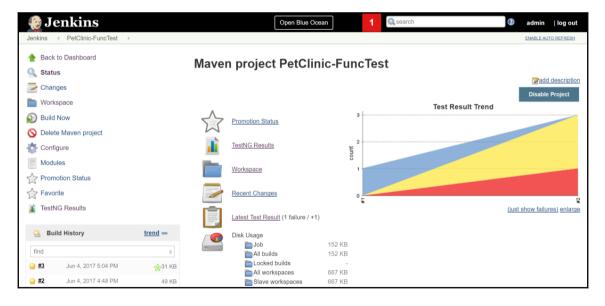


🔊 8m 19s	No changes						
9 4 hours ago							
	All tests a	are passin	Ig				
	Nice one! All 59	tests for this pi	peline are p	assing.			
		All tests :	 All tests are passin 	 All tests are passing 	All tests are passing	 All tests are passing 	 All tests are passing

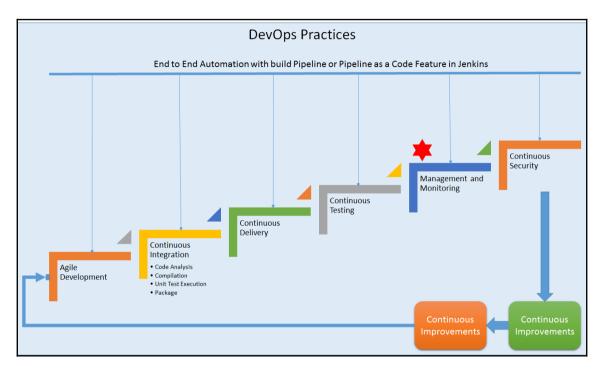
FirstPipeline #20	0	Pipeline	Changes	Tests	Artifacts	১	🂠 E	» ×
Branch: — Commit: 7262ae6	8m 19s4 hours ago	No changes						
Name					S	ize		
pipeline.log					-			<u>+</u>
dashBoard_Test.xml					4	52 bytes		<u>+</u>
target/petclinic.war					4	0 MB		<u>+</u>
		Download	All					

		Filter: 🧟 promoted
Updates Available	Installed Advanced	
Install ↓	Name	Version
promoted builds promoted bu	blugin	2.28.1
Promoted Builds	(Simple)	1.9
Install without restart	Download now and install after restart	Update information obtained: 17 hr ago

nic-FuncTest General	•		Duild Trianses	Duild Environment	Dec Oberes	Duild	DeskOlass	Devilet Optilization	
		e Code Management	Build Triggers	Build Environment	Pre Steps	Build	Post Steps	Build Settings	
Post-build A									
Promote	builds w	hen							(
Pro	motion p	rocess							
	Name	Production Ready							
	Visible								2
	Icon	Green white star						•	
	Restrict	where this promotion p	rocess can be run						
	riteria								
	mena	1							
		Custom Groovy s	cript					C	
		Only when manual	ally approved					C	
		Promote immedia	tely once the build	is complete					
		 Trigger even 	n if the build is unst	able					
		Promote immedia	tely once the build	is complete based on b	uild parameters				
		Whan the followin	ig downstream proj	ects build successfully					
Save	Ар	ply /hen the followin	ig upstream promot	tions are promoted				C	



Chapter 08: Managing and Monitoring Jenkins



🔮 Jenkins						1	🔍 search			admin	log ou
Jenkins 🕨 Nodes 🕞										INABLE AUT	O REFRESH
摿 Back to Dashboard		s	Name 1	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Respon	se Time	
🏠 Manage Jenkins			master	Windows 10 (amd64)	In sync	230.57 GB	1.98 GB	238.77 GB		0ms	*
New Node			Data obtained	10 min	10 min	10 min	10 min	10 min		10 mi	ı
Configure	_									Refresh	status
No builds in the queue.											
Build Executor Status	-										
1 Idle											

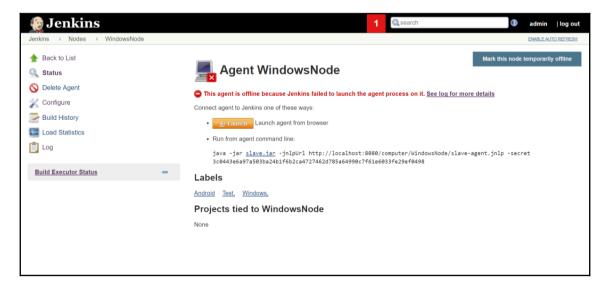
🚱 Jenkins			1 🔍 search 🖉 admin log out
Jenkins > Nodes >			
 ∱ Back to Dashboard ☆ Manage Jenkins ▲ New Node ☆ Configure 			Windowshode
Build Queue No builds in the queue.	-	ОК	
Build Executor Status 1 Idle 2 Idle	-		

👰 Jenkins			1 Qsearch Ø admin	log out
Jenkins Nodes				
🛧 Back to Dashboard		Name	WindowsNode	Ø
🐡 Manage Jenkins		Description		
💻 New Node		# of executors	1	
age -		Remote root directory	d:\tempJenkins	•
Build Queue No builds in the queue.	-	Labels	Windows, Test, Android	
		Usage	Use this node as much as possible	•
Build Executor Status 1 Idle	-	Launch method	Launch agent via execution of command on the master	•
2 Idle			Launch command	
			No launch command specified	
		Availability	Keep this agent online as much as possible	•
		Node Properties		
		Environment variab	les	
		Tool Locations		
		Save		

s	Name ↓	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time	
	master	Windows 10 (amd64)	In sync	230.57 GB	1.98 GB	238.77 GB	0ms	- 🔅 -
	WindowsNode		N/A	N/A	N/A	N/A	N/A	
	Data obtained	13 ms	2 ms	12 min	12 min	12 min	12 min	I
							Refresh	status

😥 Jenkins	1 esearch admin log out
Jenkins > Nodes > WindowsNode	ENABLE AUTO REFRESH
 Back to List Status Delete Agent Configure Build History 	Mark this node temporarily offline Image: Agent WindowsNode Image: This agent is offline because Jenkins failed to launch the agent process on it. See log for more details Launch agent
Load Statistics	Labels
📋 Log	Android Test, Windows,
Build Executor Status	Projects tied to WindowsNode

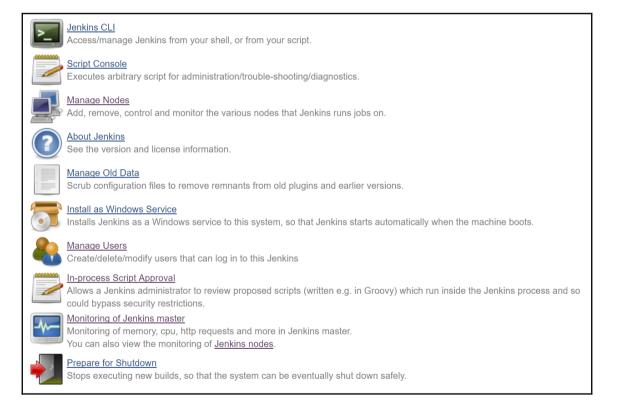
Configure Global Security
 Enable security TCP port for JNLP agents Fixed :
Agent protocols
Disable remember me

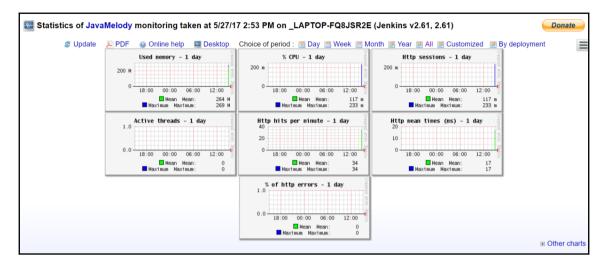


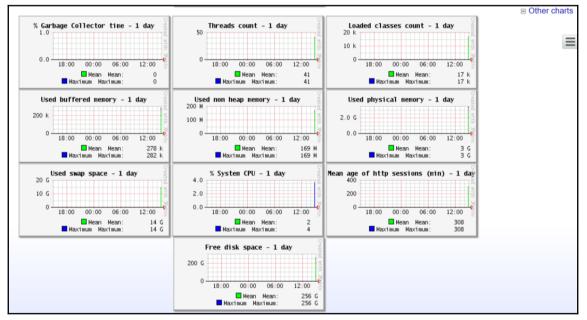
Jenkins PetClinic-Code			
General Source C	ode Management Build Trig	gers Build Environment Build Post-build Actions	•
	Days to keep builds		
		if not empty, build records are only kept up to this number of days	
	Max # of builds to keep	3	
		if not empty, only up to this number of build records are kept	
			Advanced
GitHub project			
This project is parameteri	zed		0
Throttle builds			
Disable this project			
Execute concurrent builds	if necessary		0
Restrict where this project	t can be run		0
Label Expression	WindowsNode		Ø
	Label WindowsNode is service		
		Advanc	:ed
Save	gement		

Jerkins WindowsNode WindowsNode Status Status Solete Agent Configure Build History Soleda Statistics Soleta Agent Load Build Executor Status Build Executor Status Addredit Test, WindowsNode Status Agent WindowsNode Soleta Agent Soleta Agent <td< th=""><th>👰 Jenkins</th><th></th><th></th><th>1</th><th>search</th><th>(2) adm</th><th>nin logou</th></td<>	👰 Jenkins			1	search	(2) adm	nin logou
Status Solution Configure Build History Load Statistics Delete Agent Conformed equation Load Statistics Build Executor Status	Jenkins > Nodes > WindowsNode					ENABL	E AUTO REFRESH
Build Executor Status Control of the control of th	Status Selete Agent Configure Build History Load Statistics	Connect agent to J <u>Launce</u> Run from ag	ffline because Jenkins enkins one of these ways Launch agent from b rent command line:	failed to launch the agent pro :: rowser		ore details	rarily offline
S W Name J Last Success Last Failure Last Duration Image: Colspan="2">PetClinic-Code 1 day 3 hr - #18 16 hr - #20 1 min 34 sec Image: Colspan="2">SM L	Build Executor Status =	3c0443e6a9				e-agent.jnlp -secret	
S W Name ↓ Last Success Last Failure Last Duration Image: Simple state Image: Simple state Image: Simple state Image: Simple state Image: Simple state Image: Simple state Image: Simple state Image: Simple state Image: Simple state Image: Simple state Image: Simple state		Android Test, N	Vindows,				
PetClinic-Code 1 day 3 hr - <u>#18</u> 16 hr - <u>#20</u> 1 min 34 sec		Projects tie	d to WindowsNo	ode			
Icon: S M L		s w	Name ↓	Last Success	Last Failure	Last Duration	
Icon: SML		i 🥥 🧼	PetClinic-Code	1 day 3 hr - <u>#18</u>	16 hr - <u>#20</u>	1 min 34 sec	\bigotimes
		Icon: SML		Legend 5	RSS for all 🔊 RSS for	r failures 🔊 RSS for just	latest builds

					Filter: SM	onitori	
Updat	Available	Installed	Advanced				
Install ↓				Name		Versio	n
	Dynatrace Applica	ation Monitori	ng Plugin			2.0.5	
	Monitoring Monitoring of	Jenkins				1.67.0	
	Job/Queue/Slaves	s Monitoring F	Plugin			1.4	
Install	without restart	D	ownload now	and install after restart	Update information obtained:	1 day 4 hr ago	Check now







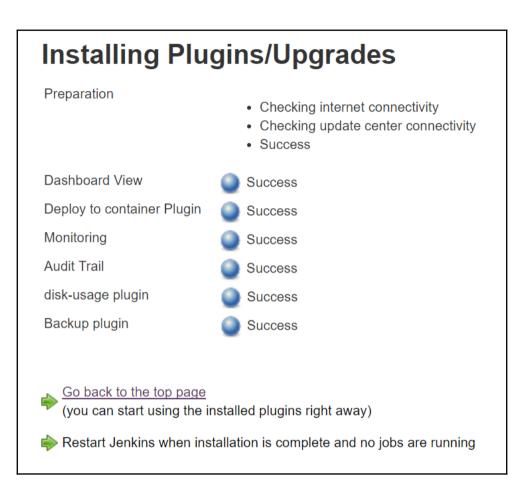
Statisti	cs http - 1 day								
Request	% of cumulative time	Hits	Mean time (ms)	Max time (ms)	Standard deviation	% of cumulative cpu time	Mean cpu time (ms)	% of system error	Mean size (Kb
http global	100	34	17	128	34	100	5	0.00	20
http warning	50	5	60	114	52	24	9	0.00	54
http severe	0	0	-1	0	-1	0	-1	0.00	0
Statisti None	cs http system err	ors -	· 1 day				41 mis/	min on 18 requests	Details
None									
📢 Statisti	cs system errors l	ogs	- 1 day						
None									
🝸 Curren	t requests								
None									
	information								
	I Execute the garba	age c		nerate a heap d ployment descr		nory histogram 🛛 📷 Invalid 🍓 View OS processes	ate http sessions 🛛 🦂 📧 JNDI tree	View http sessions	3
Host: Java memory use Nb of http sessior Nb of active threa (current http requ % System CPU	ns: 1 ds o	92.168.		Details	-		_		

🔅 Threads

Threads on LAPTOP-FQ8JSR2E@192.168.43.209: Number = 44, Maximum = 51, Total started = 71 Details

Thread	Daemon	Priority	State	Executed method	Cpu time	User time	Ткі
Thread	?	Priority	State	Executed method	(ms)	(ms)	
Attach Listener	yes	5	🔵 RUNNABLE		0	0	
Computer.threadPoolForRemoting [#1]	yes	5	O TIMED_WAITING	sun.misc.Unsafe.park(Native Method)	187	109	•
DestroyJavaVM	no	5	🔵 RUNNABLE		1,875	1,328	
FilePath.localPool [#1]	yes	5	O TIMED_WAITING	sun.misc.Unsafe.park(Native Method)	78	46	•
Finalizer	yes	8	😑 WAITING	java.lang.Object.wait(Native Method)	31	31	
Handling GET /monitoring from 0:0:0:0:0:0:0:1 : RequestHandlerThread[#2]	yes	5	🔵 RUNNABLE	java.lang.Thread.dumpThreads(Native Method)	125	109	
Java2D Disposer	yes	10	😑 WAITING	java.lang.Object.wait(Native Method)	0	0	
javamelody	yes	5	⊖ TIMED_WAITING	java.lang.Object.wait(Native Method)	187	62	
Jenkins cron thread	no	5	😑 WAITING	java.lang.Object.wait(Native Method)	0	0	
Jenkins UDP 33848 monitoring thread	no	5	RUNNABLE	java.net.TwoStacksPlainDatagramSocketImpl.receive0(Native Method)	0	0	
jenkins.util.Timer [#10]	yes	5	😑 WAITING	sun.misc.Unsafe.park(Native Method)	15	15	
jenkins.util.Timer [#1]	yes	5	😑 WAITING	sun.misc.Unsafe.park(Native Method)	15	15	
jenkins.util.Timer [#2]	yes	5	⊖ TIMED_WAITING	sun.misc.Unsafe.park(Native Method)	15	0	•
jenkins.util.Timer [#3]	yes	5	😑 WAITING	sun.misc.Unsafe.park(Native Method)	31	15	
jenkins.util.Timer [#4]	yes	5	😑 WAITING	sun.misc.Unsafe.park(Native Method)	0	0	

-





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

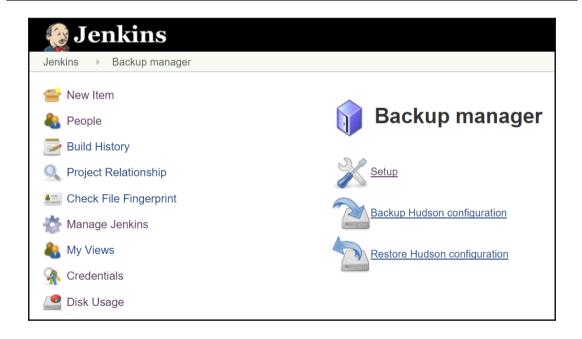
Monitoring of Jenkins master

Monitoring of memory, cpu, http requests and more in Jenkins master. You can also view the monitoring of <u>Jenkins nodes</u>.



Prepare for Shutdown

Stops executing new builds, so that the system can be eventually shut down safely.



Backup config files

Backup configuration

Eachap configuration						
Hudson root directory	F:\#JenkinsEssentials\FirstDraft\jenkinsHome					
Backup directory	d:\backup	0				
Format	zip ▼					
File name template	date	0				
Custom exclusions						
Verbose mode						
Configuration files (.xml) only						
No shutdown						
Backup content						
 Backup job worksp 	ace					
Includes		0				
Excludes						
Case-sensitive						
Backup builds history						
Backup maven arti	facts archives					

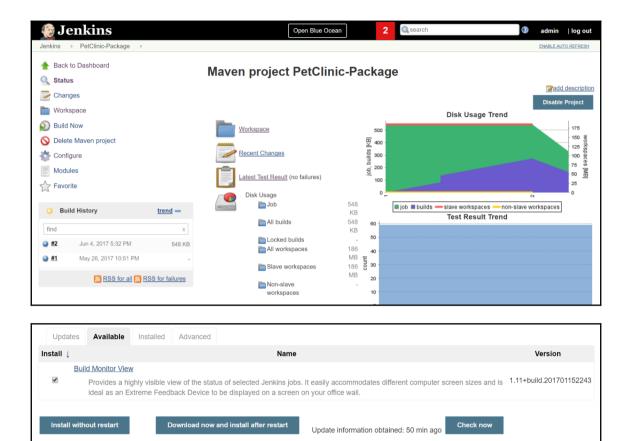
🤮 Jenkins	1 Qsearch (1) admin log (
Jenkins 🕨 Backup manager	
🖀 New Item	Jenkins is going to shut down
🚑 People	[INFO] Backup started at [05/27/17 15:01:27]
Build History	[INFO] Setting hudson in shutdown mode to avoid files corruptions. [INFO] Waiting all jobs end
Q Project Relationship	[INFO] Number of running jobs detected : 0 [INFO] All jobs finished.
E Check File Fingerprint	[INFO] Full backup file name : d:\backup\YYYDDMM_hhmm
🐡 Manage Jenkins	c
鵗 My Views	
🕋 Credentials	
🔮 Disk Usage	
Build Queue 😑	
Jenkins is going to shut down. No further builds will be	
performed. (cancel)	
Build Executor Status	
1 Idle	
2 Idle	

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

👰 Jenkins			1 Q search	()
Jenkins Backup manager				
쓸 New Item				
🌯 People		📔 Backup manager		
Build History		Available backup in di\backup :		
🔍 Project Relationship		Available backup in d:\backup :		
Leck File Fingerprint		m		
🐡 Manage Jenkins		Launch restore		
🍓 My Views				
🕋 Credentials				
isk Usage				
Build Queue	_			
No builds in the queue.				
Build Executor Status	-			
1 Idle 2 Idle				

Jenkins				🔍 search		dmin log out
A Back to Dashboard	Disk u Jobs:-, Builds:-, Loc builds:-, All workspa current workspace:- Builds older than day ago V Builds than day ago V Filter	ked ce:-, Not	200 275 250 225 250 200 50 50 50 50 50 50 50 50 50 50 50 50 5	Disk Usag	ge Trend	0.0000000 BB
	Project name	Jobs Builds a		All workspace	Not current slave workspace	
	Total				-	
	Next Disk usage calcu Record Builds Dis		Il be in 2 hours 56 minutes			
	Next Disk usage calcu Record Jobs Disk		be in 2 hours 56 minutes.			

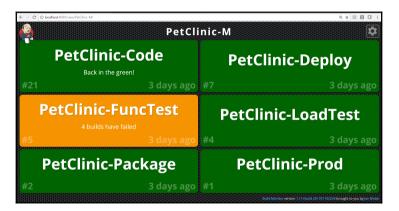
Disk usage	
Time interval for calculation	0 */6 * * *
Enable calculation of jobs	
Time interval for calculation	0 */6 * * *
Enable calculation of workspace	
Time interval for calculation	0 */6 * * *
Warn if some size is exceeded	
Show disk usage trend graph on the project page	•
Show free space of jobs directory in global graph	•
Length of global disk usage history	183
Time out for calculation of slave workspace in minutes	5
Control workspace from slave side too	
Jobs excluded for disk usage calculation	



🛞 Jenkins					Open Blue Ocean	2 search	(admin log out
Jenkins 🕞								ENABLE AUTO REFRESH
쯜 New Item								add description
🌯 People		All	My Das	shboard PetClinic	10			
Build History		s	w	Name ↓	New View Last Success	Last Failure	Last Duration	Fav
Q Project Relationship		0		FirstAntExample	11 days - <u>#2</u>	11 days - <u>#1</u>	14 sec	ي 😥
E Check File Fingerprint			*	FirstJob	3 days 1 hr - <u>#12</u>	N/A	3.3 sec	🔊 🚖
🐡 Manage Jenkins		0		FirstPipeline	2 days 21 hr - <u>#20</u>	2 days 22 hr - <u>#19</u>	8 min 19 sec	😰 🚖
🍓 My Views			*	Main-PetClinic	16 days - <u>#1</u>	N/A	30 min	
Pisk Usage			*	Maven-Sample	16 days - <u>#1</u>	N/A	59 sec	🔊 🏠
🥋 Credentials		2	*	mitesh51	2 days 21 hr - log	N/A	5 min 38 sec	ي ۞
Build Queue	-			PetClinic-Code	2 days 16 hr - <u>#21</u>	11 days - <u>#20</u>	2 min 50 sec	ي ۞
No builds in the queue.			<u> </u>	PetClinic-Deploy	2 days 16 hr - <u>#7</u>	2 days 22 hr - #4	3 min 19 sec	🔊 🏠
Build Executor Status	-	0	<u> </u>	PetClinic-FuncTest	2 days 16 hr - <u>#5</u>	N/A	37 sec	
1 Idle 2 Idle		0	*	PetClinic-LoadTest	2 days 16 hr - <u>#4</u>	N/A	1 min 0 sec	
2 100			*	PetClinic-Package	2 days 16 hr - <u>#2</u>	N/A	5 min 7 sec	🔊 🏠
		0	*	PetClinic-Prod	2 days 16 hr - <u>#1</u>	N/A	1 min 52 sec	🔊 🚖
			4	SpringBoot	N/A	16 days - <u>#2</u>	4.2 sec	ي ۞

🚔 New Item		View name PetClinic-M
🔒 People		Build Monitor View
Build History		 Build monitor view Shows a highly visible status of selected jobs. Ideal as an Extreme Feedback Device to be displayed on a screen on your officient wall.
Project Relationship		Build Pipeline View
📖 Check File Fingerprint		Shows the jobs in a build pipeline view. The complete pipeline of jobs that a version propagates through are shown as a row i the view.
虂 Manage Jenkins		Dashboard
🚷 My Views		Customizable view that contains various portlets containing information about your job(s)
Disk Usage		List View
Credentials		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.
Build Queue	-	
No builds in the queue.		ок
Build Executor Status	_	
1 Idle		
2 Idle		

Jenkins > PetClinic-M >				
🖀 New Item		Name	PetClinic-M	
People		Description		ñ l
Build History				
🎡 Edit View				0
🚫 Delete View				
Q Project Relationship			[Plain text] Preview	
E Check File Fingerprint		Filter build queue		
-		Filter build executors		0
Manage Jenkins		Job Filters		
鵗 My Views		Status Filter	All selected jobs	
🔷 Disk Usage			All selected jobs	
Credentials		Recurse in subfolders		
Toredenidio		Jobs	FirstAntExample	
			FirstJob	
Build Queue	-		FirstPipeline Main-PetClinic	
No builds in the queue.			Main-PetClinic Maven-Sample	
			mitesh51	
Build Executor Status	-		PetClinic-Code	
1 Idle			PetClinic-Deploy	
1 100			PetClinic-FuncTest	



Audit Trail			
Loggers	Log file		_
	Log Location	d:\jenkinsLogs	0
	Log File Size MB	5	0
	Log File Count	5	0
		Delet	te
	Add Logger 👻		
		Advance	ed

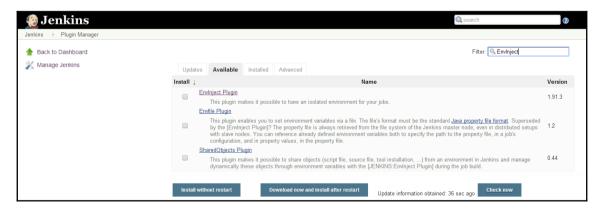
😥 Jenkins				Q sear	ich ()
Jenkins 🔸 Plugin Manager					
摿 Back to Dashboard				F	Filter: 🔍 Workspace Cleanup Plugin
💥 Manage Jenkins	Updates Ava	ailable Installed	Advanced		
	Install 👃		Nam	e	Version
		ce Cleanup Plugin plugin deletes the worl	kspace before the build or when a build	l is finished and artifacts saved.	0.20
	Install without res	start Do	ownload now and install after restart	Update information obtained: 12 mo ago	Check now

Delete workspace when build	is done	
Patterns for files to be deleted	Add	0
Apply pattern also on directories		
Clean when status is	☑ Success ☑ Unstable ☑ Failure ☑ Not Built ☑ Aborted	
Don't fail the build if cleanup fails		0
External Deletion Command		0
	Delete	
Add post-build action 🔻		

🧶 Jenkins					🔍 search	
Jenkins > Plugin Manager						
A Back to Dashboard					Filter: 🔍 Conditional BuildStep	Plugin
💥 Manage Jenkins	Update	s Available	Installed	Advanced		
	Install 👃				Name	Version
		Conditional BuildSt A buildstep wr		number of oth	er buildsteps, controlling their execution based on a defined condition.	1.3.3
			as builders		as publishers. Adds builders to the actions available in the [Flexible Publish Plugin] and publishers Inditional BuildStep Plugin].	0.1
		Run Condition Plug Core condition Plugin].		vhether to exe	cute a build step or publisher. Used by the [Flexible Publish Plugin] and the [Conditional BuildStep	1.0
	Install v	vithout restart	Do	ownload now a	and install after restart Update information obtained: 36 sec ago	

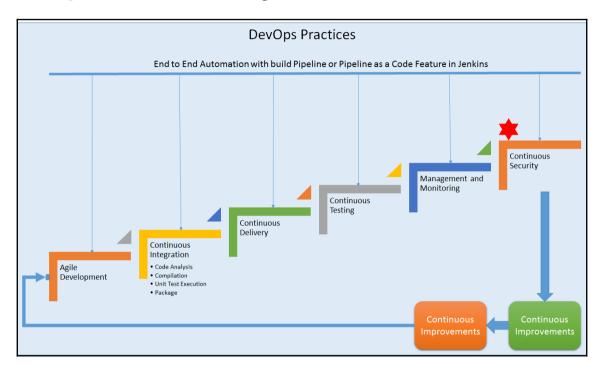
Cond	itional step (sing	le)	0	
Run?	File exists		•	
	File	/tmp/ec2.bt		
	Base directory	Workspace	*	
		Advanced		
Builder	EC2 Environm	ent	~	
	AWS Credential	is		
	AWS Credentia	als Id	*	
		Please select the Jenkins Credentials Id for your AWS environment	_	
	aws.region		~	
		Delet	e	
Add b	uild step 🔹			
Save	Apply			

Conditional steps (multiple)	
Run? Always	~ 📀
	Advanced
Steps to run if condition is met	
Inject environment variables	Ø
Properties File Path	0
Properties Content	
	Ø
	Ø
	Delete
Execute shell	Ø
Command	
See the list of available environment variables	
	Delete
Add step to condition •	
Save Apply	



 Inject environment variab 	les to the build process	
Properties File Path	/usr/envVariables.properties	0
Properties Content	MAVEN_HOME=/usr/maven	
		0
		.:
Script File Path		0
Script Content		
		0
Evaluated Groovy script		
		Ø
		.:
Global passwords	build as environment variables ^V	0
Inh nacewords		181838383 1
Save Apply		

Chapter 09: Security in Jenkins



-	-
	100

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.



<u>About Jenkins</u> 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

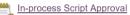
Installs Jenkins as a Windows service to this system, so that Jenkins starts automatically when the machine boots.



Manage Users

Prepare for Shutdown

Create/delete/modify users that can log in to this Jenkins



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.



3

Stops executing new builds, so that the system can be eventually shut down safely.

🥹 Jenkins		1 admin log out
Jenkins 🕨 Jenkins' own user databa	ase	ENABLE AUTO REFRESH
🔺 Back to Dashboard		
🐡 Manage Jenkins		
鵗 Create User		
Users		
These users can log into Jenkins. This is users who really just made some commi		
User Id	٨	lame
admin	admin	\$
admin admin	admin	
الله <u>admin</u> علي <u>admin</u>	admin	
	admin	
🚱 Jenkins		
Jenkins Jenkins' own user database	admin Create User	
Jenkins Jenkins' own user database	Create User	Shreyansh
Jenkins Jenkins' own user database Image Service Image Servic	Create User Username: Password:	
Jenkins Jenkins' own user database Image Service Image Servic	Create User Username: Password: Confirm password:	Shreyansh
Jenkins Jenkins' own user database Image Service Image Servic	Create User Username: Password: Confirm password: Full name:	Shreyansh Shreyansh Soni
Jenkins Jenkins' own user database Image Service Image Servic	Create User Username: Password: Confirm password:	Shreyansh



			-					
🙍 Configure Global Security 🗙			2		_			×
$\leftarrow \rightarrow \mathbf{C}$ (i) localhost:8080/c	onfigureSecurity/	Ð	Ţ	☆	J.	M		:
Jenkins	obal Security							•
Configure	e Global Security							ł
Enable security							?	
TCP port for JNLP agents	Fixed : Random Disable						0	
	Agent protocols							
Disable remember me							?	
Access Control	Security Realm							
	Delegate to servlet container					?		
	Jenkins' own user database					?		
	 Allow users to sign up 					?		
	LDAP							
	Authorization							
	Anyone can do anything					?		
	Legacy mode					?		
	Logged-in users can do anything					?		
	Allow anonymous read access					?		
Save Apply								+

Jenkins > Configure	Global Security	ty																			
Access Control	Security Rea	alm																			
	Delegate	to servlet	container	6																	
	Jenkins' description	own user d	atabase																		
	¥ /	Allow users	to sign u	qı																	
	LDAP																				
	Authorizatio	'n																			
	Anyone (Anyone can do anything																			
	Legacy r) Legacy mode																			
	Logged-in	n users car	ı do anyt	hing																	
	Matrix-ba	ased securit	iy																		
	User/group	Overall			Credentials						Ager	nt							Job		
		AdministerF	ReadCrea	ateDeletr	eManageDomains	sUpda	ateViev	vBuild	Configure	Connect	tCreate	Delete	Disconnec	tProvis	ionBuilo	Cance	Configure	eCreate	Delete	Discover	Move
	Anonymous																				
	🚨 admin		•			1										1					
	User/gro	oup to add:	admin		Add																
	Project-b	ased Matrix	k Authori	zation St	trategy																
Markup Formatter	Plain text																				
Save Apply																					

Jenkins > Configure	Global Security																					
Access Control	Security Real	m																				
	Delegate t	to servlet	contair	ner																		
	Jenkins' o	wn user d	latabas	se																		
	🗹 Al	low users	to sig	n up																		
	LDAP																					
	Authorization																					
	Anyone ca	an do any	thing																			
	Legacy me	ode																				
	Logged-in	Logged-in users can do anything																				
	Matrix-bas	sed securi	ity																			
	User/group	Over	rall		Credentials Agent								Job									
		Administe	erRead	dCreate	Delete	ManageDomains	Updat	eView	Build	Configur	Connec	tCreate	Delete	Disconneo	tProvision	Build	Cancel	Configur	eCreate	Deletel	Discove	erMoveF
	Anonymous																					
	🚨 admin		1	1		•		1		1	1	1		<	•		1	1			1	
	Shreyansh																					
	User/grou	up to add:	Shrey	/ansh		Add																
	Project-ba	ised Matri	ix Auth	orizatio	on Strate	gy																
Markup Formatter																						
Save Apply																						

👼 🌢 Jenkins X			- a x
← → C O localhost.8080/login?from=%2F			୍ ୩ ☆ :
🧐 Jenkins		Search 👔	log in sign up
Jenkins >			
	User: Shreyansh		
	Password:		
	Remember me on this computer		
	log in		
	Create an account if you are not a member yet.		

👼 🖉 Dashboard [Jenkins] 🛛 🗙 📃				– a ×
$\leftarrow \rightarrow \mathbf{C}$ () localhost 8080				્ ☆ :
👰 Jenkins			Search	Shreyansh Soni log out
Jenkins >				ENABLE AUTO REFRESH
🍓 People		Welcome to Jenkins!		
Build History		Welcome to Senkins:		
Q Project Relationship				
1 Check File Fingerprint				
🍓 My Views				
Build Queue	-			
No builds in the queue.				
Build Executor Status	-			
1 Idle				
2 Idle				

User/group	Over	all			Credentials						Age	nt							Job					
	Administe	erRead	Create	DeleteMa	anageDomain	sUpdate	əView	Build	Configur	eConnec	tCreate	Delete	Disconnec	tProvisio	nBuild	Cancel	Configur	eCreate	eDelete	Discove	ərMove	eRead	Workspa	ceDele
Shreyansh																								
🚨 admin			1		1	1	•		1	1			1				1			1		1	1	•
Anonymous																								
User/grou	p to add:				Add																			
Project-bas	sed Matri	x Autho	orizatio	n Strateg	у																			
Plain text																								
Treats all input a	e nlain toxt	HTML	neafa ch	aractore like	o < and & aro oe	aned to t	hoir ros	nective	a character	ontitioe														
		TTTME 0	naulo ch	anactors like		aped to t	non ro.	pocave	5 character	onuuoa.														
uest Forgery ex	ploits																							
Crumb Algorit	hm																							
Crumb Algorit		ər																						
-	umb Issue		ity																					
Default Cru	umb Issue		ity																					
 Default Cru Enable p 	imb Issue proxy con	npatibil	ity																					
Default Cru	imb Issue proxy con	npatibil	ity																					
 Default Cru Enable p 	imb Issue proxy con	npatibil	ity																					
 Default Cru Enable p 	imb Issue proxy con over Re	npatibili moting		bad																				

🧶 Jenkins					Q search	(2)	Shreyansh Soni log out
Jenkins >							ENABLE AUTO REFRESH
鵗 People		All	My Da	shboard			
Build History		s	w	Name ↓	Last Success	Last Failure	Last Duration
Q Project Relationship				FirstAntExample	14 hr - <u>#2</u>	14 hr - <u>#1</u>	14 sec
Leck File Fingerprint			*	<u>FirstJob</u>	3 hr 41 min - <u>#9</u>	N/A	18 sec
🍓 My Views		•	*	Main-PetClinic	6 days 0 hr - <u>#1</u>	N/A	30 min
Build Queue	-	0	*	Maven-Sample	6 days 1 hr - <u>#1</u>	N/A	59 sec
No builds in the queue.		•		PetClinic-Code	1 day 2 hr - <u>#18</u>	14 hr - <u>#20</u>	1 min 34 sec
Build Executor Status	_		*	PetClinic-Package	14 hr - <u>#1</u>	N/A	4 min 51 sec
1 Idle		0	4	SpringBoot	N/A	6 days 1 hr - <u>#2</u>	4.2 sec
2 Idle		Icon: S	ML		Legend 🔊 R	SS for all 🛛 🔊 RSS for failures	RSS for just latest builds

Jenkins	PetClinic-Code		
▲ Back Q Statu Chan	to Dashboard Is		Project PetClinic-Code
🚕 Bui	ld History	<u>trend</u> ==	Permalinks
find		х	
#20	May 26, 2017 10:14 PM	Ŋ	 Last build (#20), 14 hr ago Last stable build (#18), 1 day 2 hr ago
🥥 <u>#19</u>	May 26, 2017 11:05 AM	1	 Last successful build (#18), 1 day 2 hr ago Last failed build (#20), 14 hr ago
#18	May 26, 2017 10:59 AM	Ŵ	 <u>Last unsuccessful build (#20), 14 hr ago</u> <u>Last completed build (#20), 14 hr ago</u>
	<u> RSS for all</u> 🔊 R	SS for failures	

Jenkins Configure (Global Security																						
	Authorization	n																					
	Anyone c	an do an	ything																				
	Legacy m	node																					
	Logged-ir	n users c	an do	anythin	g																		
	Matrix-ba	ised secu	irity																				
	Project-back	ased Mat	rix Aut	thorizat	ion Stra	ategy																	
	User/group	User/group Overall Credentials Agent										Job											
		AdministerReadCreateDeleteManageDomainsUpdateViewBuildConfigureConnectCreateDeleteDisconnectProvisi										Provisio											
	Anonymous																						
	🚨 admin	•	•	1	•		1	1	1	1	1	6		1	1	•	•	1	•	•	1	•	•
	User/group to add: admin Add																						
Markup Formatter	Plain text																						
	Treats all input as plain text. HTML unsafe characters like < and & are escaped to their respective character entities.																						
Prevent Cross Site Re	equest Forgery e	exploits																					
Crumbs	Crumb Algor	rithm																					
	Default Crumb Issuer																						
	Enable	proxy co	mpatil	oility																			
Save Apply																							

Shreyansh Soni | log out

👰 Jenkins

Jenkins 🔹 🕨

Access Denied

Shreyansh is missing the Overall/Read permission

Jenkins Configure Glo	bal Security																						
	Authorization	ı																					
	Anyone can do anything																						
	Legacy mode																						
	Logged-in	users car	n do ar	nything																			
	Matrix-bas	sed securi	ity																				
	Project-ba	sed Matri	x Auth	orizatio	on Strat	əgy																	
	User/group	Over	rall		Credentials Agent											Job							
						ManageDomains																	
	admin																				•		
	Anonymous & Shreyansh																						
		up to add:	Add																				
Markup Formatter	Plain text																						
	Treats all input a	as plain text	HTML	unsafe cl	naracters	like < and & are esc	aped to t	heir res	spective	e character	r entities.												
Prevent Cross Site Re	equest Forgery e	xploits																					
Crumbs	Crumb Algori	ithm																					
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