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AIM: TO U	nderstand Cont	incuse So	tegration install	and
 Configure Jen	oking with ST-1	even last	I Gradle Setup	a
Pollo Job				
Q. 11-50				
- 10blem Sto	tement: To Un	derstand !	importance OF 3	Senkins
environment	tua abbioh	sof twore	applications on	Server
GUOLIONING 184	1989			
Therey:			4 100	
Continouse	Jose of ration:			
Continouse	Integration le	a develo	buent chartice a	mere
development	tean makes	small	Frequent change	se to
Code, An o	sutomated b	oulld ver	rifies the code	e each
time devac	pers check	their Ch	ranges Into 7	he
Version (iontral repos	itary . F	is a result de	relepment
teams (in detect the	ablems	early.	
(continovuse	Integration	is the	first part o	02/12 A
a practice	that enab	ies apr	hication develop	taen
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Importance OF Continouse Integrat	lan:
9 Reduced Integration risk	THE SUR MISS
b) Higher code quality	A Totals
c) The code in Version control wor	K5
DeReduced Friction between team	
e) The Quality of life improveme	
D) less time Deploying	
a) Increased Confidence and Mon	ale
The second secon	
Jenkins;	
Jenkins & on open source Server	- that is written
entirely in Jana . It let you execute	a Semes of Ochon
to achieve the Continouse Inter	gration process , that
too is on automented Fashion	<u> </u>
THIS CI Server runs in Service	
Apache Tomacit Jenkin's Facilità	tes continouse integra
- His and continue delivery is	
by automating part releated.	
deployment. This makes it eas	
to continously work on the bet	
by intergating changes to the f	project,
Jenkins automorte the software	
manner and lets the developer	
errors at an early stage. A	
Community is one of the q	
Its popularity Jenkins is not	
but also has a thriving pu	alud Geo zastaw.

	NAME:	DIV.:	DATE: PAGE:
	Condusion:		
	Its prerequisité	es on our Ubunta	entrins along with machine and created
	Out first Free!	style build Job on	Jenkins.
•			
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Output:

Starting Jenkins on Amazon Aws:

```
https://ubuntu.com/aws/pro

Expanded Security Maintenance for Applications is not enabled.

10 updates can be applied immediately.

To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.

See https://ubuntu.com/esm or run: sudo pro status

Last login: Mon Feb 27 05:25:15 2023 from 13.233.177.5

ubuntu@ip-172-31-0-149:-$

i-0d3044263430cd16a (DevOps-Jenkins)

PublicIPs: 43.204.216.114 PrivateIPs: 172.31.0.149
```

```
Last login: Mon Feb 27 05:25:15 2023 from 13.233.177.5

ubuntu@jp-172-31-0-149:-$

ubuntu@jp-172-31-0-
```

Installing Java:

```
ubuntu@ip-172-31-0-149:~$ sudo apt install openjdk-11-jre
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
    openjdk-11-jre-headless
Suggested packages:
    libnss-mdns fonts-ipafont-gothic fonts-ipafont-mincho fonts-wqy-microhei | fonts-wqy-zenhei fonts-indic
The following packages will be upgraded:
    openjdk-11-jre openjdk-11-jre-headless
2 upgraded, 0 newly installed, 0 to remove and 36 not upgraded.
Need to get 41.8 MB of archives.
After this operation, 58.4 kB of additional disk space will be used.
Do you want to continue? [Y/n]

i-Od3044263430cd16a (DevOps-Jenkins)
PublicIPs: 43.204.216.114 PrivateIPs: 172.31.0.149
```

```
ubuntu@ip-172-31-0-149:~$ java -version
openjdk version "11.0.18" 2023-01-17
OpenJDK Runtime Environment (build 11.0.18+10-post-Ubuntu-Oubuntu122.04)
OpenJDK 64-Bit Server VM (build 11.0.18+10-post-Ubuntu-Oubuntu122.04, mixed mode, sharing)
ubuntu@ip-172-31-0-149:~$

i-Od3044263430cd16a (DevOps-Jenkins)
PublicIPs: 43.204.216.114 PrivateIPs: 172.31.0.149
```

Installing Jenkins:

```
ubuntu@ip-172-31-0-149:~$ sudo apt-get install jenkins
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
jenkins is already the newest version (2.375.3).
0 upgraded, 0 newly installed, 0 to remove and 38 not upgraded.
ubuntu@ip-172-31-0-149:~$

i-Od3044263430cd16a (DevOps-Jenkins)
```

```
ubuntu@ip-172-31-0-149:~$ sudo systemctl enable jenkins
Synchronizing state of jenkins.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable jenkins
ubuntu@ip-172-31-0-149:~$

i-Od3044263430cd16a (DevOps-Jenkins)

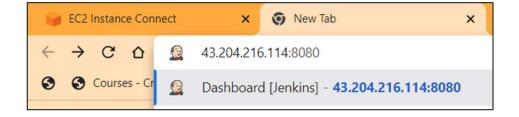
PublicIPs: 43.204.216.114 PrivateIPs: 172.31.0.149
```

```
ubuntu8ip-172-31-0-149:-$ sudo systemctl status jenkins
ubuntu8ip-172-31-0-149:-$ sudo systemctl status jenkins
jenkins.service - Jonkins Continuous Integration Server
Loaded: loaded (/lib/systemd/system/jenkins.service renabled; vendor preset: enabled)
Active: active (running) since Fri 2023-03-03 13:41:02 UTC; lmin 42s ago
Main PID: 2036 (java)
Tasks: 40 (limit: 1143)
Memory: 294.0M
Memory: 294.0M
Memory: 294.0M
Memory: 394.0M
Memory:
```

Accessing Virtual machine Through browser:

PublicIPs: 43.204.216.114 PrivateIPs: 172.31.0.149

```
i-0d3044263430cd16a (DevOps-Jenkins)
PublicIPs: 43.204.216.114 PrivateIPs: 172.31.0.149
```



Jenkins Startup:



Creating First Project In Jenkins:

