# คู่มือการติดตั้ง Database และ Application

คู่มือการติดตั้ง Database และ Application ซึ่งมีขั้นตอนการติดตั้งหลัก ดังต่อไปนี้

- 1. การติดตั้ง ORACLE Java 1.7.0
- 2. การติดตั้ง INSTALL POSTGRES 9.2.4 และ POSTGIS 2.0
  - a. ทำการติดตั้ง DATABASE POSTGRESQL 9.2
    - b. ทำการติดตั้ง POSTGIS 2.0
- 3. INSTALL APACHE TOMCAT 7.0
- 4. DEPLOY ALFRESCO & CONFIG
- 5. CONFIG SERVICE LEVEL 3,5 Postgresql 9.2
- 6. DEPLOY HIGHWAY APP

ขั้นตอนการติดตั้ง ของ Database และ Application มีรายละเอียด ดังต่อไปนี้

### 1. การติดตั้ง ORACLE Java 1.7.0

Download Java 1.7.0 ที่

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cp jdk-7u25-linux-x64.tar.gz /opt



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ให้ใช้คำสั่งเพื่อแตก File โดยใช้คำสั่ง #tar xzf jdk-7u25-linux-x64.tar.gz



เมื่อแตก File เรียบร้อยแล้ว ให้เข้าไปที่ Folder jdk1.7.0\_25 โดยใช้คำสั่ง cd /jdk1.7.0\_25



### ให้ทำการติดตั้ง JAVA โดยใช้คำสั่ง

#alternatives --install /usr/bin/java java /opt/jdk1.7.0\_25/bin/java 2



ให้ทำการเลือก JAVA เพื่อให้งานโดยใช้คำสั่ง #alternatives --config java จะปรากฏหน้าจอ



ให้ใส่เลข 1 หรือ เลขอื่นๆ เพื่อยืนยันการเลือก วิธีการตรวจสอบ JAVA VERSION บนเครื่อง SERVER CENTOS ให้ใช้คำสั่ง #Java –version

### 2 . การติดตั้ง INSTALL POSTGRES 9.2.4 และ POSTGIS 2.0

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wget <u>http://yum.pgrpms.org/9.2/redhat/rhel-6-x86\_64/pgdg-centos92-9.2-6.noarch.rpm</u>



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ทำการแตก File pgdg-centos92-9.2-6.noarch.rpm โดยใช้คำสั่ง:-

rpm -i pgdg-centos92-9.2-6.noarch.rpm



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wget <u>http://mirrors.thzhost.com/epel/6/i386/epel-release-6-8.noarch.rpm</u>

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ทำการแตก File โดยใช้คำสั่ง rpm -i epel-release-6-8.noarch.rpm



### 2.1 ทำการติดตั้ง DATABASE POSTGRESQL 9.2

โดยใช้คำสั่ง :- yum install postgresql92-server postgresql92 postgresql92-devel



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## 2.2 ทำการติดตั้ง POSTGIS 2.0

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[root@localhost cento	us]# yum install postgis2 92 postgis2 92-dev	/el postgis2 92-u

### จะปรากฏ List Package

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xerces-c	x86_64	3.0.1-20.el6	base	866 k 🖸
Transaction Su	nmary			
Install 20	Package(s)			
Total download	size: 17 M			
Installed size	: 74 M			
Is this ok [y/M	N]: y			
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(2/20): gdal-1	.7.3-15.el6.x86_64	4.rpm	3.0 MB	00:03
(3/20): geos-3	.3.8-1.rhel6.x86 6	54.rpm	506 kB	00:03
(4/20): giflib	-4.1.6-3.1.el6.x86	5_64.rpm	37 kB	00:00
(5/20): hdf5-1	.8.5.patch1-7.el6.	.x86_64.rpm	1.4 MB	00:01
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(7/20): libdap	-3.11.0-1.el6.x86	64.rpm	445 kB	00:00
(8/20): libgeo	tiff-1.2.5-5.el6.)	k86_64.rpm	574 kB	00:00
(9/20): libgfo	rtran-4.4.7-3.el6.	.x86_64.rpm	265 kB	00:03
(10/20): librx	-1.5-14.el6.x86_64	4.rpm	31 kB	00:00
(11/20): netcd	f-4.1.1-3.el6.3.x8	36_64.rpm	4.8 MB	00:05
(12/20): ogdi-3	3.2.0-0.14.beta2.e	el6.x86_64.rpm	230 kB	00:00
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# ให้ยืนยันการติดตั้ง โดยเลือก Y

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libgeotiff	x86 64	1.2.5-5.el6	epel	574	k	
libgfortran	x86 64	4.4.7-3.el6	base	265	k	
librx	x86 64	1.5-14.el6	epel	31	k	
netcdf	x86 64	4.1.1-3.el6.3	epel	4.8	М	
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(16/20): postgis2_92-devel-2.0.3-2.rhel6.x86_64.rpm				
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เมื่อการติดตั้งเรียบร้อยจะปรากฏข้อความ Complete



ให้ทำการ initialize Database โดยใช้คำสั่ง service postgresql-9.2 initdb

E centos@localhos	t:/home/centos	_ 🗆 ×
<u>File Edit View Search Terminal Help</u>	k	
Verifying : postgis2_92-devel-2.0.3- Verifying : ogdi-3.2.0-0.14.beta2.el Verifying : geos-3.3.8-1.rhel6.x86_6	2.rhel6.x86_64 5.x86_64 4	18/20 19/20 20/20
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Complete! [root@Localhost centos]# service postgr Initializing database: [root@Localhost centos]# []	esql-9.2 initdb [ <mark>OK</mark> ]	

ทำการ Start service โดยใช้คำสั่ง service postgresql-9.2 start



ตรวจสอบ Status ด้วยคำสั่ง /etc/init.d/postgresql-9.2 status



ทำการเปลี่ยนสิทธิ์การใช้งานเป็น User postgres โดยใช้คำสั่ง:- su – postgres

จากนั้นให้สร้าง database ใหม่ โดยใช้คำสั่ง:- createdb -E UTF8 -T template0 postgis\_template



ทำการสร้าง language ให้กับ Database โดยใช้คำสั่ง :- createlang -d postgis\_template plpgsql



คำสั่งในการ Create Function / Insert ทำภายหลังจากที่ติดตั้ง Database เรียบร้อยแล้ว :-

psql -d postgis\_template -f /usr/pgsql-9.2/share/contrib/postgis-2.0/postgis.sql

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psql -d postgis\_template -f /usr/pgsql-9.2/share/contrib/postgis-2.0/spatial\_ref\_sys.sql

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คำสั่งในการ grant สิทธิ์ ทำภายหลังจากที่ติดตั้ง Create Function / Insert เรียบร้อยแล้ว :-

psql -d postgis\_template -c "GRANT ALL ON geometry\_columns TO PUBLIC;"

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Config postgres connection

ทำการแก้ไข File pg\_hba.conf ที่ Path /var/lib/pgsql/data/9.2/

ด้วยคำสั่ง:- vi pg\_hba.conf

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base	pq	hba.co	nf org	pg notify	pg subtrans	pg xlog	
global	pg	ident.	conf	pg_serial	pg_tblspc	postgresql.conf	
pg_clog	pg	log		pg_snapshots	pg_twophase	postgresql.conf org	
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[1001@100	.atriost	uata]#	vr bg	nua.cont			

แก้ไขตรง # "local" is for Unix domain socket connections only

➔ remark # local a	all	all	peer	
➡ เพิ่มข้อความ local	all	all	trust	
# IPv4 local connection	ons:			
ightarrow remark # host	all	all	127.0.0.1/32	ident
➡เพิ่มข้อความ host	all	all	127.0.0.1/32	trust



ทำการแก้ไข File postgresql.conf ที่ Path /var/lib/pgsql/data/9.2/

ด้วยคำสั่ง:- vi postgresql.conf

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[root@loca	alhost	data]#	vi pos	stgresql.cor	nf			4

แก้ไขตรง # - Connection Settings –



<pre>#</pre>	File	Edit	View	Search	Terminal	Help		
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CONNECTIONS AND AUTHENTICATION								
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<pre>* - Connection Settings - isten_addresses = '*'     # what IP address(es) to listen on;     # comma-separated list of addresses;     # defaults to 'localhost'; use '*' for a     # (change requires restart)     # unix_socket group = ''     # (change requires restart)     # bonjour = off     # advertise server via Bonjour     # (change requires restart) </pre>								
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<pre>isten_addresses = '*'</pre>		Jonnec	CTOIL	sectings				
<pre># comma-separated list of addresses; # defaults to 'localhost'; use '*' for a # (change requires restart) # (change requires restart) # (change requires restart) hote: Increasing max connections costs -400 bytes of shared memory per t connection slot, plus lock space (see max locks_per_transaction). # (change requires restart) # (change requires restart) unix_socket_group = '' # (change requires restart) unix_socket_group = '' # (change requires restart) unix_socket_group = '' # (change requires restart) # bonjour = off # advertise server via Bonjour # (change requires restart)</pre>	iste	en add	resse	s = '*'			#	what IP address(es) to listen on:
<pre># defaults to 'localhost'; use '*' for a # (change requires restart) # topjour = off # advertise server via Bonjour # (change requires restart)</pre>							#	comma-separated list of addresses:
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<pre>vi # (change requires restart) it (change requires restart) ix connections = 100</pre>	.t							
yort = 5432       # (change requires restart)         wax_connections = 100       # (change requires restart)         whote:       Increasing max_connections costs ~400 bytes of shared memory per         ¢ connection slot, plus lock space (see max locks per transaction).         syuperuser.reserved connections = 3       # (change requires restart)         #unix_socket_directory = ''       # (change requires restart)         #unix_socket_group = ''       # (change requires restart)         #unix_socket_permissions = 0777       # begin with 0 to use octal notation         # (change requires restart)       # (change requires restart)         #bonjour = off       # advertise server via Bonjour         # (change requires restart)       # denge requires restart)						10	#	(change requires restart)
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<pre># Note: Increasing max connections costs -400 bytes of shared memory per # connection slot, plus lock space (see max Locks per transaction). #superuser reserved connections = 3</pre>	nax o	connec	tions	= 100			#	(change requires restart)
<pre>f connection slot, plus lock space (see max locks per transaction). superuser reserved connections = 3  # (change requires restart) #unix_socket_group = ''  # (change requires restart) #unix_socket_group = ''  # (change requires restart) #unix_socket_permissions = 0777  # begin with 0 to use octal notation # (change requires restart) #bonjour = off  # advertise server via Bonjour # (change requires restart)</pre>	# Not	e: I	ncrea	sing max	_connect	ions cost	s	~400 bytes of shared memory per
<pre>superuser reserved connections = 3  # (change requires restart) unix_socket directory = ''  # (change requires restart) unix_socket group = ''  # (change requires restart) unix_socket permissions = 0777  # begion with 0 to use octal notation # (change requires restart) # off  # advertise server via Bonjour # (change requires restart)</pre>	t cor	necti	on sl	ot, plus	s lock sp	ace (see	ma	<pre>ax_locks_per_transaction).</pre>
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# (change requires restart)	#bonj	our =	off				#	advertise server via Bonjour
							#	(change requires restart)

### 3. INSTALL APACHE TOMCAT 7.0

เปิดการใช้งาน Terminal > ใช้คำสั่ง:- cd /usr/share



Download โปรแกรม โดยใช้คำสั่ง :-

wget http://mirrors.digipower.vn/apache/tomcat/tomcat-7/v7.0.42/bin/apache-tomcat-

### 7.0.42.tar.gz



เมื่อ Download เรียบร้อยแล้ว ให้ทำการแตก File โดยใช้คำสั่ง

tar -xzf apache-tomcat-7.0.42.tar.gz

เมื่อแตก File เรียบร้อยแล้วจะได้ Folder ชื่อ apache-tomcat-7.0.42

ce ce	ntos@localhost:/usr/share	
File Edit View Search Term	ninal <u>H</u> elp	
[centos@localhost share]\$ s	u root	^
Password:		
[root@localhost share]# rmd	ir apache-tomcat-7.0.42	
rmdir: failed to remove `ap	ache-tomcat-7.0.42': Directory not empty	
[root@localhost share]# cd	apache-tomcat-7.0.42	
[root@localhost apache-tomc	at-7.0.42]# ls	
bin lib logs RELE	ASE-NOTES temp work	
conf LICENSE NOTICE RUNN	ING.txt webapps	
[root@localhost apache-tomc	at-7.0.42]# cd	
[root@localhost share]# ls		
aclocal	hal	
alsa	help	
anaconda	hwdata	
apache-tomcat-7.0.42	i18n	
apache-tomcat-7.0.42 Mar.gz	icons	
applications	idl	
augeas	info	
authconfig	kde4	
awk	kde-settings	
backgrounds	kdump	=
baobab	libgnomekbd	
bookmarks	libgweather	
brasero	librarian	
cdrdao	libthai	~

ให้ทำการแก้ไข File ชื่อ Tomcat ที่ Folder /etc/init.d โดยใช้คำสั่ง :-

cd /etc/init.d

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[root@	localhost	init.d]	#П	.,				~
			<u>п</u>					

### ให้ edit File TOMCAT ด้วยคำสั่ง :- vi tomcat

### จะปรากฏหน้าจอ



### <u>การแก้ไขด้วย VI</u>

- 1. กดปุ่ม i
- 2. แก้ไขข้อความ
- 3. กดปุ่ม esc
- 4. กดเครื่องหมาย !
- 5. กด:
- 6. ใส่ WQ เพื่อทำการ save

ทำการแก้ไขสิทธิ์ File tomcat โดยใช้คำสั่ง :- chmod 755 tomcat

<pre>Edit View Search Terminal Help root@localhost init.d]# root@localhost ini</pre>	E		centos	@localhost	:/etc/init.d		_ = ×
<pre>rot@localhost init.d]# rot@localhost ini</pre>	<u>File Edit y</u>	iew Search	Terminal	Help			
<pre>root@localhost init.d]# root@localhost init.d]# r</pre>	[root@local	host init.d	#				^
<pre>root@localhost init.d]# root@localhost init.d]# r</pre>	[root@local	host init.d	#				
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root@localhost init dl# chmod 755 tomcat	root@local	host init d	# vi tom	cat			
	root@local	host init d	# chmod	755 tomcat			=
root@localhost init d]#	root@local	host init d	# Chillou	755 concac		×	

เพิ่มโปรแกรม tomcat เข้าไปในระบบ system services ด้วยคำสั่ง:- chkconfig --add tomcat

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[root	@loca	lhost	init.d]#						
[root	@loca	lhost	init.d]#	cd /etc	c/init.d				
[root	@loca	lhost	init.d]#	vi tomo	cat				
[root	@loca	lhost	init.d]#	chmod 7	755 tomca	t			-
[root	@loca	lhost	init.d]#						=
[root	@loca	lhost	init.d]#	chkcont	figadd	tomcat			$\sim$

แก้ไข Service ของ Tomcat ทำงานใน level 3(Text mode) และ Level 5(X-Windows) ด้วยคำสั่ง:-

chkconfig --level 35 tomcat on

เมื่อต้องการตรวจสอบค่า Level ที่กำหนด ใช้คำสั่ง :- chkconfig –list tomcat

Σ				centos	@local	host:/etc/	init.d			_ = ×
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[root	@loca	lhost	init.d]	#						
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lroot	@loca	lhost	init.d	# cd /et	c/init	. d				
lroot	@loca	lhost	init.d	# vi tom	cat					
lroot	@loca	lhost	init.d	# chmod	755 to	ncat			2	<u>c</u> .
Iroot	@Loca	lhost	init.d	#	<i>.</i> .					
[root	@Loca	lhost	init.d	# Chkcon	tig	add tomca	t 			
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tomca	IT.	16	⊎:oTT	1:011	2:on	3:0N	4:0N	5:0N	0:0TT	-
[ root	@LOC9	undst	init.d)	#						~

เพิ่ม max memory ให้ tomcat server

แก้ไขไฟล์ /usr/share/apache-tomcat-7.0.42\bin\catalina.sh

เพิ่มบรรทัด JAVA\_OPTS="-Xms1024m -Xmx4096m -XX:PermSize=1024m -

XX:MaxPermSize=4096m"

คำสั่งที่ใช้ในการเปิด ปิด Service

service tomcat start

service tomcat stop

service tomcat restart

ให้ forward port iptables จาก Port 80 ไป Port 8080 โดยใช้คำสั่ง:-

iptables -A INPUT -i eth0 -p tcp --dport 80 -j ACCEPT

iptables -A INPUT -i eth0 -p tcp --dport 8080 -j ACCEPT

iptables -A PREROUTING -t nat -i eth0 -p tcp --dport 80 -j REDIRECT --to-port 8080

service iptables save



ทดสอบการใช้งาน Apache tomcat โดยการทดสอบผ่าน web browser

Address :localhost:8080 จะปรากฏหน้าจอ



### 4. DEPLOY ALFRESCO & CONFIG

ทำการแก้ไข File catalina.properties เก็บอยู่ที่ /usr/share/apache-tomcat-

7.0.42/conf/catalina.properties

แก้ไขบรรทัด shared.loader=

โดยเปิด Terminal คีย์คำสั่ง :- cd /usr/share/apache-tomcat-7.0.42/conf



ทำการแก้ไข File catalina.properties ด้วยคำสั่ง vi catalina.properties

🗉 cen	tos@loc	alhost:/us	sr/sha	re/apache-tomcat-7.0.42/conf _	x
<u>File Edit View</u>	Search	Terminal	<u>H</u> elp		
[root@localhost	conf]#				0
[root@localhost	conf]#				
[root@localhost	conf]#				
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[root@localhost	cont]#			No amount of the same	
root@localhost	cont]#	vi catal	ina.pr	operties	l

#### ตรงบรรทัดข้อความ shared.loader=



ให้เพิ่มข้อความเป็น shared.loader=\${catalina.home}/shared/classes



ทำการ copy File alfresco-global.properties ใน folder shared ไปที่ /usr/share/apache-tomcat-7.0.42/shared/classes/

โดยเข้าที่ Folder /home/owner/Downloads/web-server/shared/classes

ด้วยคำสั่ง:- cd /home/owner/Downloads/web-server/shared/classes



ทำการ copy File alfresco-global.properties ไปที่ /usr/share/apache-tomcat-

7.0.42/shared/classes/



ทำการ Change Directory ไปที่เก็บ File:- postgresql-9.0-802.jdbc4.jar ที่อยู่ใน

/home/owner/Downloads/lib ด้วยคำสั่ง:- cd /home/owner/Downloads/web-server/lib

	_			ce	entos@localhost:/	_ = ×
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1100	t@10Ca	lhost	(1# cd	LU /	auman (Daum) and a (uph somular (lik)	
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ทำการ copy postgresql-9.0-802.jdbc4.jar ไปที่ /usr/share/apache-tomcat-7.0.42/lib

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Lcent	tos@lo	cathos	t lib]\$				
[ cent	tos@lo	cathos	t lib]\$	cp alf	resco*	/usr/share/apache-tomcat-7.0.42/lib	2

ทำการ Change Directory ไปที่เก็บ File:- alfresco.war ที่ Path /home/owner/Downloads/ web-server/webapp ด้วยคำสั่ง:- cd /home/owner/Downloads/web-server/webapp

E centos@localhost:/	_ = ×
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>S</u> earch <u>T</u> erminal <u>H</u> elp	
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[centos@localhost web-server]\$	=
[centos@localhost web-server]\$	
[centes@less]best web_server]\$	<b>N</b>
[centes@lecalhest /l\$ cd /beme/beuper/Deupleads/web_server/webaped	₽
[centos@cocaciosc /]\$ cu /nome/owner/Downtoads/web-server/webapps]	6

copy file alfresco.war ไปที่ Path /usr/share/apache-tomcat-7.0.42/webapps ด้วยคำสั่ง:-

cp alfresco.war /usr/share/apache-tomcat-7.0.42/webapps

Σ		ce	ntos@lo	calhost	:~/Down	loads/	web-s	erver/	webapı	ps		_ 0	×
<u>F</u> ile	<u>E</u> dit	⊻iew	<u>S</u> earch	Termina	al <u>H</u> elp								
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[ cent	.05@10	cathos	i webap	phalà ch	atreso	.o.war	/usr/	snare,	apache	- comca	t-7.0.	42/Web	d
pps													~

สร้าง user database ของ alfresco และ database ของ alfresco

เปลี่ยน user เป็น postgres

su postgres

cd

psql

CREATE DATABASE alfresco OWNER alfresco;

CREATE ROLE alfresco PASSWORD 'alfresco' LOGIN;

### 5. <u>CONFIG SERVICE LEVEL 3,5 Postgresql 9.2</u>

ให้ Checkconfig ของ Postgresql 9.2 ด้วยคำสั่ง:- Chkconfig --list postgresqg-9.2

			cen	tos@local	host:/va	r/lib/pg:	sql/9.2/	data		_ = >	×
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[ root	t@loca	alhost	data]#								
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[ root	t@loca	alhost	data]#								
[root	t@loca	alhost	data]#	chkconfi	glist	postgr	esql-9.	2			=
post	gresql	-9.2	0:off	_1:off	2:off	3:off	4:off	5:off	6:off		
[root	t@loca	alhost	data]#	Ц				<b>N</b>		ĺ	5

จากหน้าจอ Service 3,5 ของ Postgresql 9.2 ถูกปิดอยู่ ดังนั้นให้เปิด Service Level 3 กับ 5 เพื่อทำงาน ใน level 3(Text mode) และ Level 5(X-Windows) ด้วยคำสั่ง:-

chkconfig --level 35 postgresql-9.2 on

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[root	@loca	lhost	data]#							^
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[ root	@Loca	lhost	data]#	chkconfi	glis	t postgresql-9.2				=
posto	resql	-9.2	0:off	1:0ff	2:off	3:off 4:off	5:0ff	6:0ff		
[ root	@loca	lhost	data]#	chkconfi	glev	el 35 postgresql-	9.2 on			$\sim$

เมื่อดำเนินการเปิด Service Psotgresql 9.2 แล้ว ให้ตรวจสอบ Service อีกครั้งด้วยคำสั่ง:-

Chkconfig --list postgresqg-9.2

E		cen	tos@local	host:/va	r/lib/pg	sql/9.2/d	ata		- 0
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[root@loca	lhost	data]#							
[root@loca	alhost	data]#							
[root@loca	lhost	data]#	chkconfi	glist	postgr	esql-9.2			
postgresql	-9.2	0:off	1:off	2:off	3:off	4:off	5:off	6:off	
[root@loca	alhost	data]#	chkconfi	gleve	l 35 po	stgresql	-9.2 on		•
[root@loca	alhost	data]#	chkconfi	glist	postgr	esql-9.2			<b>75</b> °
postgresql	-9.2	0:off	l:off	2:off	3:on	4:off	5:on	6:off	
[root@loca	lhost	data]#	Π						

จะเห็น Service Level 3 กับ 5 เปิดใช้งานเรียบร้อย

#### 6. <u>DEPLOY HIGHWAY APP</u>

cp database dump doh.zip /var/lib/pgsql-9.2 cp highway.sql /var/lib/pgsql-9.2 แตกไฟล์ database dump doh.zip unzip database\_dump\_doh.zip จะได้ไฟล์ 3 ไฟล์ dump road.sql, dump section.sql, dump log.sql เปลี่ยน user เป็น postgres cd สร้าง database crd psql CREATE DATABASE crd WITH TEMPLATE postgis\_template OWNER signature; \q เตรียมข้อมูล database crd psql crd < dump road.sql psql crd < dump\_section.sql</pre>

psql crd < dump\_log.sql

แก้ไขสิทธิ์ table

psql

ALTER TABLE road OWNER TO signature;

ALTER TABLE section OWNER TO signature;

ALTER TABLE log OWNER TO signature;

\q

สร้้าง database highway

psql

CREATE DATABASE highway WITH TEMPLATE postgis\_template OWNER signature;

\q

เตรียมข้อมูลของ database highway

psql highway < highway.sql

เปลี่ยน user เป็น root

su root

deploy web application บน tomcat

cp Highway.war /usr/share/apache-tomcat-7.0.42/webapps

เริ่มการทำงาน tomcat

service start tomcat

\*\*\*\* ถ้าเครื่องมีการลงโปรแกรม TOMCAT 6, POSTGRES,HTTPD ให้ REMOVE ก่อนการติดตั้ง \*\*\*\*