Grouper container postgres database auto install example

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Install postgre	s				
mchyzer@I mchyzer@I psql (9.6 Type "helj	SC20-0637-WL:~\$ docker run SC20-0637-WL:~\$ docker exe .20) p" for help.	nname post ec -it -u pos	gres -e POSTGRES_PASSW tgres postgres psql	DRD=pass -d -p 5432:54	432 postgres:9
postgres=	# CREATE USER grouper PAS:	SWORD 'pass';			
postgres=	LE # CREATE DATABASE grouper	;			
CREATE DA	TABASE				
postgres=	# GRANT ALL PRIVILEGES ON	DATABASE gro	uper TO grouper;		
postgres=	# /d				
mchyzer@I	SC20-0637-WL:~\$				

Install grouper files, note on windows I can use docker.for.win.localhost as my ip address in the DB url. You can also use docker networking or get your ip address and use that

```
mchyzer@ISC20-0637-WL:~/containerScript$ export DIR=`pwd`
mchyzer@ISC20-0637-WL:~/containerScript$ mkdir -p slashRoot/opt/grouper/grouperWebapp/WEB-INF/classes/
# whatever the database connection info is
mchyzer@ISC20-0637-WL:~/containerScript$ echo 'hibernate.connection.url = jdbc:postgresql://docker.for.win.
localhost:5432/grouper' >> slashRoot/opt/grouper/grouperWebapp/WEB-INF/classes/grouper.hibernate.properties
mchyzer@ISC20-0637-WL:~/containerScript$ echo 'hibernate.connection.username = grouper' >> slashRoot/opt/grouper
/grouperWebapp/WEB-INF/classes/grouper.hibernate.properties
mchyzer@ISC20-0637-WL:~/containerScript$ echo 'hibernate.connection.password = pass' >> slashRoot/opt/grouper
/grouperWebapp/WEB-INF/classes/grouper.hibernate.properties
# adapt this secret to something random
mchyzer@ISC20-0637-WL:~/containerScript$ echo 'encrypt.key = dfjkb345poiuqSFD' >> slashRoot/opt/grouper
/grouperWebapp/WEB-INF/classes/morphString.properties
mchyzer@ISC20-0637-WL:~/containerScript$ mkdir -p logs/grouper-ui-logs
mchyzer@ISC20-0637-WL:~/containerScript$ chmod o+rwx logs/grouper-ui-logs
# create a script that can assign a UI password
mchyzer@ISC20-0637-WL:~/containerScript$ echo 'new GrouperPasswordSave().assignApplication(GrouperPassword.
Application.UI).assignUsername("GrouperSystem").assignPassword("pass").save();' > slashRoot/opt/grouper
/grouperWebapp/WEB-INF/bin/assignGrouperSystemPassword.gsh
# temporary container to init db
mchyzer@ISC20-0637-WL:~/containerScript$ docker run --detach --mount type=bind,source=$DIR/logs/grouper-ui-logs,
target=/opt/grouper/logs \
  --mount type=bind,source=$DIR/slashRoot,target=/opt/grouper/slashRoot \
 -e GROUPER AUTO DDL UPTOVERSION='v2.5.*' \
 -e GROUPER_LOG_TO_HOST=true \
  --name grouper-init-db i2incommon/grouper:2.5.39
# init the db and assign a password
mchyzer@ISC20-0637-WL:~/containerScript$ docker exec -u tomcat -it grouper-init-db bash -c 'cd /opt/grouper
/grouperWebapp/WEB-INF/bin/; ./gsh.sh assignGrouperSystemPassword.gsh'mchyzer@ISC20-0637-WL:~/containerScript$
docker rm -f grouper-init-db
```



At this point the DB is initialized since the container started and we specified to auto-init GSH, and we can assign a user password via script

https://localhost

Log in!

INTERNET					Search	٩		
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Quick links	- Grouper	,						
My groups	Institute of Hig	Institute of Higher Education						
My folders My favorites My services	This website allows you frequently asked question	This website allows you to manage groups associated with your organization and the members of those groups. For a list of answers to frequently asked questions, refer to the support documentation.						
My activity Miscellaneous	Recent activi	ty						
Browse folders					Activity Date	e		
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💌 🧰 etc	Added GrouperSysAdn	Added GrouperSysAdmin as a member of the grouperUiUserData group. 2020/12/17 11:01 PM						
	Edited group grouperU	iUserData .	2020/12/17 11:01 PM					
	Added group grouperU	Added group grouperUiUserData .				2020/12/17 11:01 PM		
	Added folder grouperU	Added folder grouperUi .				2020/12/17 11:01 PM		
	My favorites	¢.	Groups I manage	0	My services	0		
	View all favorites		instrumentationDataCollect etc : attribute : instrumentation	torsGroup Data	View all services			
			instrumentationDataInstance etc : attribute : instrumentationD	cesGroup Data				
			grouperMessageRole etc : attribute : messages					

To troubleshoot, you can see the pid file and what processes are running

mchyzer@ISC20-0637-WL:~/containerScript\$ docker exec -it grouper-ui bash -c 'cat /run/httpd/httpd.pid'
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mchyzer@ISC20-0637-WL:~/containerScript\$ docker exec -it grouper-ui bash -c 'ps -ef'