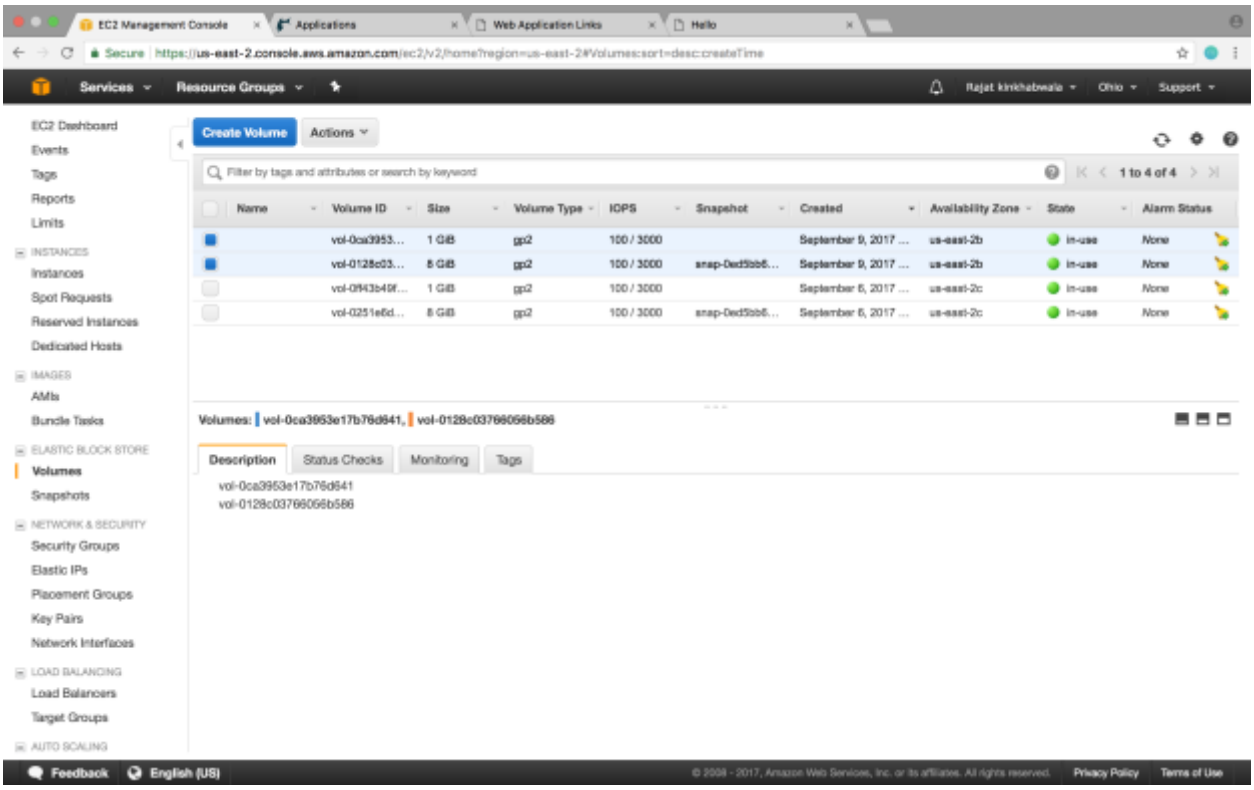
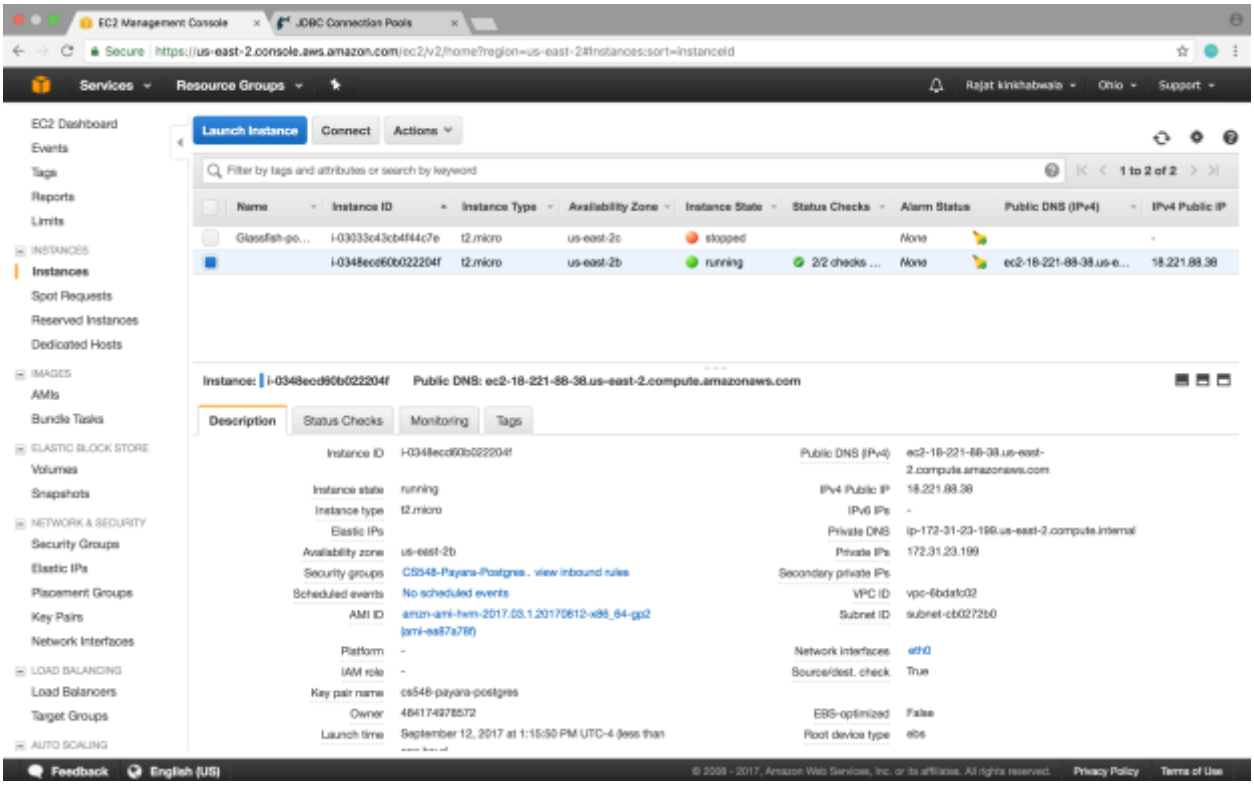
Assignment1

Course – cs548
Submitted By: Rajat Kinkhabwala
IAM users sign-in link https://484174978572.signin.aws.amazon.com/console
User name –ketaki
Password - xK-S6U+qU#@|
User name – Xuquiang
Password - 5sde-IO$PC|x
Payara Administrator Password
Username –admin
Password – 5512295309
Things to check in report-

1.Screenshot of the AWS Consoles showing the volumes and the instance I have allocated on EBS.




EC2 Management Console
JDBC Connection Pools
Secure https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Instances:sort=instanceId
Services
Resource Groups
Rajat kinkhabwala
Ohio
Support
EC2 Dashboard
Events
Tags
Reports
Limits
INSTANCES
Instances
Spot Requests
Reserved Instances
Dedicated Hosts
IMAGES
AMIs
Bundle Tasks
ELASTIC BLOCK STORE
Volumes
Snapshots
NETWORK & SECURITY
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces
LOAD BALANCING
Load Balancers
Target Groups
AUTO SCALING
Launch Instance
Connect
Actions
Filter by tags and attributes or search by keyword
1 to 2 of 2
Name
Instance ID
Instance Type
Availability Zone
Instance State
Status Checks
Alarm Status
Public DNS (IPv4)
IPv4 Public IP
Glassfish-po...
i-03033c43cb4f44c7e
t2.micro
us-east-2c
stopped
None
i-0348ecd60b022204f
t2.micro
us-east-2b
running
2/2 checks ...
None
ec2-18-221-88-38.us-e...
18.221.88.38
Instance: i-0348ecd60b022204f
Public DNS: ec2-18-221-88-38.us-east-2.compute.amazonaws.com
Description
Status Checks
Monitoring
Tags
Instance ID
i-0348ecd60b022204f
Instance state
running
Instance type
t2.micro
Elastic IPs
Availability zone
us-east-2b
Security groups
CS548-Payara-Postgres. view inbound rules
Scheduled events
No scheduled events
AMI ID
amzn-ami-hvm-2017.03.1.20170812-x86_64-gp2 (ami-ea87a78f)
Platform
-
IAM role
-
Key pair name
cs548-payara-postgres
Owner
484174978572
Launch time
September 12, 2017 at 1:15:50 PM UTC-4 (less than
Public DNS (IPv4)
ec2-18-221-88-38.us-east-2.compute.amazonaws.com
IPv4 Public IP
18.221.88.38
IPv6 IPs
-
Private DNS
ip-172-31-23-199.us-east-2.compute.internal
Private IPs
172.31.23.199
Secondary private IPs
VPC ID
vpc-6bdafc02
Subnet ID
subnet-cb0272b0
Network interfaces
eth0
Source/dest. check
True
EBS-optimized
False
Root device type
ebs
Feedback
English (US)
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2. Output of Linux command “df” in instance after Step (2).

```
[ec2-user@ip-172-31-33-231 ~]$ df
Filesystem     1K-blocks    Used Available Use% Mounted on
devtmpfs          499748      60    499688   1% /dev
tmpfs             508684       0    508684   0% /dev/shm
/dev/xvda1       8123812 1593684   6429880  20% /
/dev/xvdf         999320   44328    902564   5% /data
[ec2-user@ip-172-31-33-231 ~]$
```

3. Output of “ls –l /data” after Step (3).

```
[root@ip-172-31-33-231 ~]# su postgres -
bash-4.2$ ls -l /data
total 88
drwx------ 6 postgres postgres  4096 Sep  6 15:14 base
drwx------ 2 postgres postgres  4096 Sep  7 06:48 global
drwx------ 2 postgres postgres  4096 Sep  6 14:36 pg_clog
-rw-r--r-- 1 postgres postgres  3700 Feb 19  2013 pg_hba.conf
-rw------- 1 postgres postgres  1636 Sep  6 14:36 pg_ident.conf
drwx------ 2 postgres postgres  4096 Sep  7 00:00 pg_log
drwx------ 4 postgres postgres  4096 Sep  6 14:36 pg_multixact
drwx------ 2 postgres postgres  4096 Sep  6 15:09 pg_notify
drwx------ 2 postgres postgres  4096 Sep  6 14:36 pg_serial
drwx------ 2 postgres postgres  4096 Sep  6 14:36 pg_snapshots
drwx------ 2 postgres postgres  4096 Sep  7 06:48 pg_stat_tmp
drwx------ 2 postgres postgres  4096 Sep  6 14:36 pg_subtrans
drwx------ 2 postgres postgres  4096 Sep  6 14:36 pg_tblspc
drwx------ 2 postgres postgres  4096 Sep  6 14:36 pg_twophase
-rw------- 1 postgres postgres     4 Sep  6 14:36 PG_VERSION
drwx------ 3 postgres postgres  4096 Sep  6 14:36 pg_xlog
-rw-r--r-- 1 postgres postgres 16947 Sep  6 14:49 postgresql.conf
-rw------- 1 postgres postgres    45 Sep  6 15:09 postmaster.opts
bash-4.2$
```

4.Output of “more -10 /data/pg_hba.conf” after Step (3).

```
[ec2-user@ip-172-31-23-199 ~]$ sudo more -10 /data/pg_hba.conf
# PostgreSQL Client Authentication Configuration File
# ===================================================
#
# Refer to the "Client Authentication" section in the
# PostgreSQL documentation for a complete description
# of this file.  A short synopsis follows.
#
1# This file controls: which hosts are allowed to connect, how clients
# are authenticated, which PostgreSQL user names they can use, which
# databases they can access.  Records take one of these forms:
#
# local      DATABASE  USER  METHOD  [OPTIONS]
# host       DATABASE  USER  CIDR-ADDRESS  METHOD  [OPTIONS]
# hostssl    DATABASE  USER  CIDR-ADDRESS  METHOD  [OPTIONS]
# hostnossl  DATABASE  USER  CIDR-ADDRESS  METHOD  [OPTIONS]
#
# (The uppercase items must be replaced by actual values.)
#
# The first field is the connection type: "local" is a Unix-domain socket,
# "host" is either a plain or SSL-encrypted TCP/IP socket, "hostssl" is an
# SSL-encrypted TCP/IP socket, and "hostnossl" is a plain TCP/IP socket.
#
# DATABASE can be "all", "sameuser", "samerole", a database name, or
# a comma-separated list thereof.
#
# USER can be "all", a user name, a group name prefixed with "+", or
# a comma-separated list thereof.  In both the DATABASE and USER fields
# you can also write a file name prefixed with "@" to include names from
# a separate file.
#
# CIDR-ADDRESS specifies the set of hosts the record matches.
# It is made up of an IP address and a CIDR mask that is an integer
# (between 0 and 32 (IPv4) or 128 (IPv6) inclusive) that specifies
# the number of significant bits in the mask.  Alternatively, you can write
# an IP address and netmask in separate columns to specify the set of hosts.
#
# METHOD can be "trust", "reject", "md5", "password", "gss", "sspi", "krb5",
# "ident", "pam", "ldap" or "cert".  Note that "password" sends passwords
# in clear text; "md5" is preferred since it sends encrypted passwords.
#
# OPTIONS are a set of options for the authentication in the format
# NAME=VALUE. The available options depend on the different authentication


#
# Database and user names containing spaces, commas, quotes and other special
# characters must be quoted. Quoting one of the keywords "all", "sameuser" or
# "samerole" makes the name lose its special character, and just match a
# database or username with that name.
#
# This file is read on server startup and when the postmaster receives
# a SIGHUP signal.  If you edit the file on a running system, you have
# to SIGHUP the postmaster for the changes to take effect.  You can use
# "pg_ctl reload" to do that.

# Put your actual configuration here
# ----------------------------------
#
# If you want to allow non-local connections, you need to add more
# "host" records. In that case you will also need to make PostgreSQL listen
# on a non-local interface via the listen_addresses configuration parameter,
# or via the -i or -h command line switches.
#

# CAUTION: Configuring the system for local "trust" authentication allows
# any local user to connect as any PostgreSQL user, including the database
# superuser.  If you do not trust all your local users, use another
# authentication method.


# TYPE  DATABASE    USER        CIDR-ADDRESS          METHOD

# "local" is for Unix domain socket connections only
local   all         postgres                          trust
# IPv4 connections:
host    all         lord         0.0.0.0/0            md5
host    all         sscf         0.0.0.0/0            md5
# IPv6 local connections:
host    all         all          ::1/128              md5
[ec2-user@ip-172-31-23-199 ~]$
```

5. Output of “psql –U postgres –c ‘\du’ “ after Step (3).

```
[ec2-user@ip-172-31-23-199 ~]$ sudo su postgres -
bash-4.2$ psql -U postgres -c '\du'
could not change directory to "/home/ec2-user"
                             List of roles
 Role name |                   Attributes                   | Member of
-----------+------------------------------------------------+-----------
 lord      | Superuser, Create role, Create DB              | {}
 postgres  | Superuser, Create role, Create DB, Replication | {}
 serf      |                                                | {}

bash-4.2$
```

6. Output of “java –version” after Step (4).

```
Rajats-MBP:downloads rajatkinkhabwala$ chmod 400 cs548-payara-postgres.pem
Rajats-MBP:downloads rajatkinkhabwala$ ssh -i "cs548-payara-postgres.pem" ec2-user@ec2-18-221-88-38.us-east-2.compute.amazonaws
The authenticity of host 'ec2-18-221-88-38.us-east-2.compute.amazonaws.com (18.221.88.38)' can't be established.
ECDSA key fingerprint is SHA256:twDkRz/gEfyU8+8yRnwsbvmCiTNq889ChkUIKl6W/xc.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'ec2-18-221-88-38.us-east-2.compute.amazonaws.com,18.221.88.38' (ECDSA) to the list of known hosts.
Last login: Tue Sep 12 15:29:45 2017 from pool-74-105-240-116.nwrknj.fios.verizon.net

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https://aws.amazon.com/amazon-linux-ami/2017.03-release-notes/
[ec2-user@ip-172-31-23-199 ~]$ sudo service postgresql start
Starting postgresql service:                               [  OK  ]
[ec2-user@ip-172-31-23-199 ~]$ java -version
java version "1.8.0_131"
Java(TM) SE Runtime Environment (build 1.8.0_131-b11)
Java HotSpot(TM) 64-Bit Server VM (build 25.131-b11, mixed mode)
[ec2-user@ip-172-31-23-199 ~]$
```

7. Output of “ls –l /usr/share/glassfish3” after Step (4).

```
Last login: Tue Sep 12 17:29:23 on ttys000
host-bcclassroom-63:~ rajatkinkhabwala$ cd downloads
host-bcclassroom-63:downloads rajatkinkhabwala$ chmod 400 cs548-payara-postgres.pem
host-bcclassroom-63:downloads rajatkinkhabwala$ ssh -i "cs548-payara-postgres.pem" ec2-user@ec2-18-221-85-190.us-east-2.compute.amazonaws.com
The authenticity of host 'ec2-18-221-85-190.us-east-2.compute.amazonaws.com (18.221.85.190)' can't be established.
ECDSA key fingerprint is SHA256:tmOkRz/gEfyU8+8yRnwsbvnCiTNqB8YCHxUIK16N/ec.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'ec2-18-221-85-190.us-east-2.compute.amazonaws.com,18.221.85.190' (ECDSA) to the list of known hosts.
Last login: Tue Sep 12 21:29:04 2017 from host-bcclassroom-63.dhcp.stevens-tech.edu

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       _|  (     /   Amazon Linux AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-ami/2017.03-release-notes/
[ec2-user@ip-172-31-23-199 ~]$ cd /usr/share/glassfish4/
[ec2-user@ip-172-31-23-199 glassfish4]$ ls
bin  glassfish  javadb  mq  README.txt
[ec2-user@ip-172-31-23-199 glassfish4]$
```

8. Screenshot of Payara Admin Console, showing Resources | JDBC |Connection Pools, after Step (5).