Setup Oracle on AWS

For new coda maintenance on AWS,

1. **Jump host**, access instances from **Dev AD**, and
2. login a0blpcdaora01/a0blpcdawww01 to maintenance Oracle DB/HTTP application on **instance** level, and
3. monitoring instance(including start/stop instance) from **AWS console**

Master AWS Console sign-in (if required):

Livingston currently supports 4 AWS accounts. This section will cover those accounts, and how to deploy instances into those accounts.

AWS2 is dedicated to Smartborder, and will not be covered at this time.

AWSCoda was originally setup for Coda dev work, but is being migrated into AWS3 and AWS1 where it will be decommissioned upon completion.

AWS1 and AWS3 are the focus of this section at this time.

AWS1 is considered a Livingston International datacenter supporting production work. Until now this has been the account supporting all Livingston International work in AWS. Going forward this Account should only contain UAT and Production instances that were deployed utilizing Cloud Formation, Amazon's best practices toolset for (creating, provisioning, updating and managing) a collection of related AWS resources. Anything deployed manually in this account will be removed without warning. Any items that need to be adjusted should be addressed to awssupport@””.com.

AWS3 is considered a Livingston International datacenter supporting development work. This account should contain any instances required for development or QA testing. Instances needed for sizing testing, development or proof of concept, can be deployed manually. All instances required for QA testing should be deployed via Cloud Formation as a sanity check prior to UAT. The more detailed requirements you provide the AWS Support team the quicker your deployment to UAT and Production will be. We are more than happy to work with you on deploying your QA and even your development environment through a Cloud Formation template.

https://””.signin.aws.amazon.com/console
Username: lchen
””: ~~y5sPDHCmQnBp~~

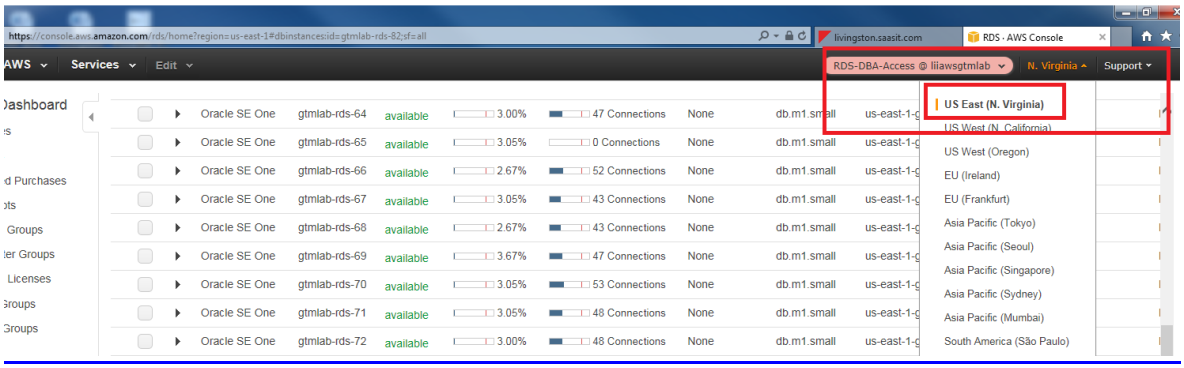
~~**a5sPDHCmQnBb**~~

Also using **2-steps Authentication tool on smartphone** to get authenticatin code. how to install 2-step Authentication tool, please find AWS document.

Switch to Finance Account (log in above first):
https://signin.aws.amazon.com/switchrole?account=liiawsfinance&roleName=RDS-DBA-Access

For Bob, AWS GTM RDS recycle:
https://””.signin.aws.amazon.com/console

https://signin.aws.amazon.com/switchrole?account=liiawsgtmlab&roleName=RDS-DBA-Access



common Windows Remote Desktop Services environment

This section will cover the ways for Livingston International Employees and Contractors to access the AWS Environments. Livingston International supplies a Windows Remote Desktop Services environment and multiple Linux jump servers that are accessible over the Livingston International VPN or in some cases over the Internet. Our common **Windows Remote Desktop Services environment** can be access via https://rdpbrk-east.liiaws.net/RDWeb. ~~Our common linux jump servers are currently only available via VPN at a0alminfjmp10.dev.liiaws.net and a0elminfjmp10.dev.liiaws.net. Additional linux jump servers are stood up on a case by case basis.~~

https://rdpduobrk-east.liiaws.net/RDWeb/
User: dev-lii\lchen

””s for both the AWS console as well as dev-lii, please see below:

Dev AD:
Username: Dev-lii\lchen
~~””: c6uNacetHAf!~~

Also need open **Duo tool** on Smartphone to get acess approvel(twice), how to setup account on Duo, please find AWS document

```
Dev AD: https://rdpduobrk-east.liiaws.net/RDWeb/
Username:  Dev-lii\lchen
##”“:  c6uNacetHAf!
tREMus-j65hE
```

Also need open Duo tool on Smartphone to get acess approvel(twice), how to setup account on Duo, please find AWS document

Username: lchen
~~“”:t REMus-j65hE~~

in this windows Remote Desktop Services environment, we can login/access jump servers(Linux) using ssh tool , then we can access EC2 and RDS instances from these Linux jump servers, there is no need of VPN connection to Livingston.

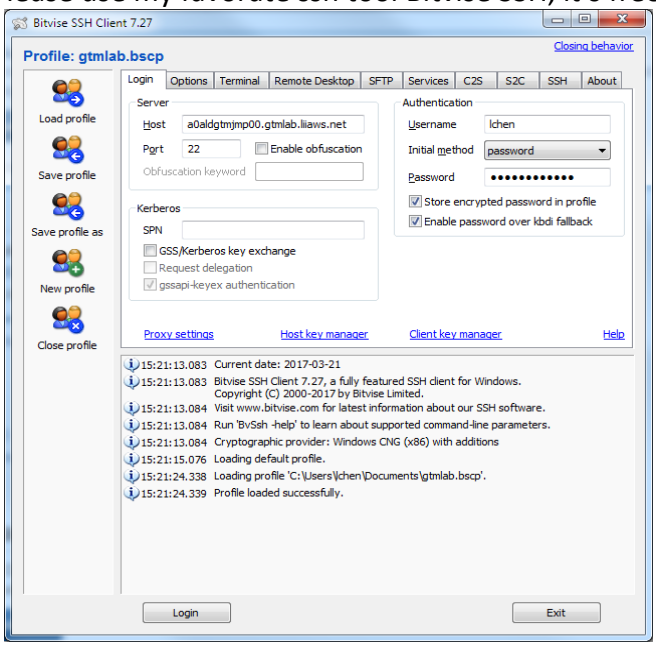
1.ssh -v lchen@a0alptcajmp01.dev.liiaws.net
-- need remote desktop service to access it(using “” and/or keyfile), if you are using VPN, then you do not need this jump server to access code EC2 instances on AWS, just ssh these EC2 instances directly from you laptop.

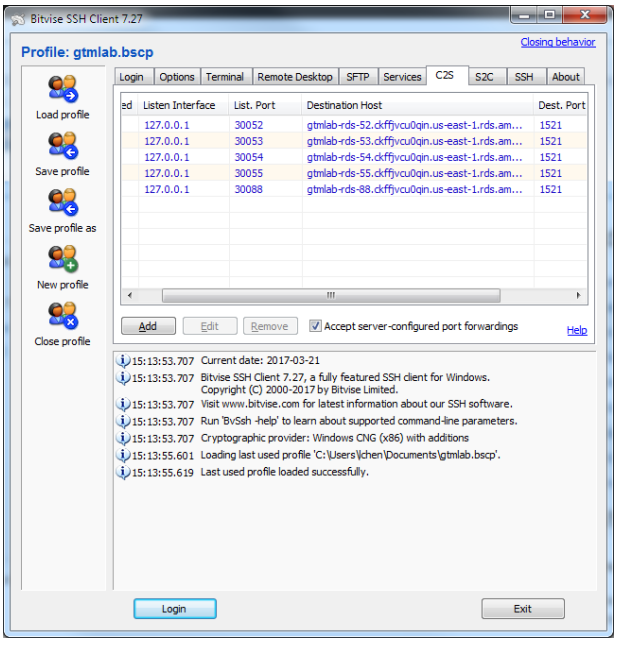
2. ssh -v lchen@a0aldgtmjmp00.gtmlab.liiaws.net
-- for gtmlab RDS instances on AWS, need “” and Duo cell phone to accept access, this can be accessed from internet directly without VPN connection and/or without this remote desktop services

Username: lchen
“”: tREMus-j65hE

Jump Host sign-in (required if only internet access), if you are in Livingston office, just login/access these jump servers directly

Please use my favorate ssh tool Bitvise SSH, it’s free





U:\>nslookup

```
Default Server:  vtwmdc202.lii01.livun.com
Address:  192.168.253.7
> a0aldgtmjmp00.gtmlab.liiaws.net
Server:  vtwmdc202.lii01.livun.com
Address:  192.168.253.7

Non-authoritative answer:
Name:    ec2-54-211-232-221.compute-1.amazonaws.com
Address:  54.211.232.221
Aliases:  a0aldgtmjmp00.gtmlab.liiaws.net

[lchen@a0aldgtmjmp00 ~]$ ifconfig -a
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1420
        inet 10.0.120.202  netmask 255.255.255.0  broadcast 10.0.120.255
        inet6 fe80::1062:e7ff:feee:acb3  prefixlen 64  scopeid 0x20<link>
        ether 12:62:e7:ee:ac:b3  txqueuelen 1000  (Ethernet)
        RX packets 40143323  bytes 15820978639 (14.7 GiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 37308608  bytes 15866227521 (14.7 GiB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop  txqueuelen 1  (Local Loopback)
        RX packets 103951  bytes 5197879 (4.9 MiB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 103951  bytes 5197879 (4.9 MiB)
        TX errors 0  dropped 0 overruns 0  carrier 0  collisions 0
```

Instance:

echo “public key” into(>>) the ~/.ssh/authorized_keys file on the host in question.

~~Linux Jump Host:~~

~~a0almadmjmp01 – 10.0.1.152(obsolete)~~

Finance Instances:

```
a0blpcdawww01 - 10.0.201.109
a0blpcdaora01 - 10.0.202.119
```

Username: lchen

“”:

TEST:

```
coda web            a0altcdawww01.dev.liiaws.net
coda db             a0altcdaora01.dev.liiaws.net
```

DEV:

```
coda web            a0aldcdawww01.dev.liiaws.net
coda db             a0aldcdaora01.dev.liiaws.net
```

Reporting:

coda reporting a0blpcdaora10.lii01.livun.com

Account

Production	REPORT		TEST	Dev
a0blpcdaora01.lii01.livun.com **eth0** 10.0.202.119 **a0blpcdawww01.lii01.livun.com** **eth0** 10.0.201.109	**a0blpcdaora10.lii01.livun.com** **eth0** 10.0.202.94		**a0altcdaora01.dev.liiaws.net** **eth0** 10.169.8.52 **a0altcdawww01.dev.liiaws.net** **eth0** 10.169.42.108	**a0aldcdaora01.dev.liiaws.net** **eth0** 10.169.1.0 **a0aldcdawww01.dev.liiaws.net** **eth0** 10.169.43.255
Oracle Database 11g Release 11.2.0.4.0 - 64bit Production	Oracle Database 11g Release 11.2.0.4.0 - 64bit Production		Apache/2.2.15 (Unix) apache-tomcat-6.0.28 Coda Web Process DDS ~~CODA Application~~ Oracle Database 11g Release 11.2.0.4.0 - 64bit Production	Apache/2.2.15 (Unix) apache-tomcat-6.0.28 Coda Web Process DDS ~~CODA Application~~ Oracle Database 11g Release 11.2.0.4.0 - 64bit Production
oracle/ Livingston1	oracle/ Livingston1		oracle/ Livingston1	oracle/ Livingston1
CODA (DBID=2218328090) codauser/codaliv ~~sys/system/dbsnmp: Livingston_4U~~ DBID=2218328090 DB_NAME=CODA Flash Recovery Area Location */u01/app/oracle/fast_recovery_area*	**Daily DB CODAPROD (DBID=1057852613)** codauser/codaliv ~~sys/system/dbsnmp: Livingston_4U~~ DBID=2218328090 DB_NAME=CODA	**Monthly DB MONTHRPT (DBID=1857461778)** codauser/codaliv ~~sys/system/dbsnmp: Livingston_4U~~	**CODATEST (DBID=3171481910)** codauser/codadev ~~sys/system/dbsnmp: codadev_4U(dev)~~ DBID=2216712627 DB_NAME=CODA Flash Recovery Area Location */u01/app/oracle/fast_recovery_area*	~~**CODATEST (DBID=3171481910)**~~ codauser/codadev DBID=2218328090 DB_NAME=CODA Flash Recovery Area Location */u01/app/oracle/fast_recovery_area*

Flash Recovery Area Size *1500G*	Flash Recovery Area Location */u01/app/oracle/fast_recovery_area* Flash Recovery Area Size *1500G*		Flash Recovery Area Size *1500G*	Flash Recovery Area Size *2063848624K*

Access EM

```
[oracle@CODAPRODDB ~]$ emctl status dbconsole
        Oracle Enterprise Manager 11g Database Control Release 11.2.0.4.0
        Copyright (c) 1996, 2013 Oracle Corporation.  All rights reserved.
        https://a0blpcdaora01.lii01.livun.com:5501/em/console/aboutApplication
        Oracle Enterprise Manager 11g is running.
        ------------------------------------------------------------------
        Logs are generated in directory
        /u01/app/oracle/product/11.2.0/dbhome_2/a0blpcdaora01.lii01.livun.com_CODA/sysman/log
```

https://a0blpcdaora01.lii01.livun.com:5501/em/console/logon/logon

AWS Instance management(reboot RDS)
(access AWS from internet, not from VPN to Livingston intranet)

step 1: login URL:

https://"".signin.aws.amazon.com/console

Username: lchen
: zxcvMNBV@12

##a5sPDHCmQnBb
#qwerPOIU1234
#try username: lchen@"" passwd: zxcv@1234 if not successful

Step 2: Switch User Role

==========
For Coda, Switch to Finance Account role(log in above first), just copy following string to Web broswer URL:

https://signin.aws.amazon.com/switchrole?account=liiawsfinance&roleName=RDS-DBA-Access

==========
For Bob, Switch to AWS GTM RDS recycle role: just copy following string to Web broswer URL:

https://signin.aws.amazon.com/switchrole?account=liiawsgtmlab&roleName=RDS-DBA-Access

==========

RDS#

Switch to Finance Account (log in above first):
https://signin.aws.amazon.com/switchrole?account=liiawsfinance&roleName=RDS-DBA-Access

For Bob, AWS GTM RDS recycle:
https://signin.aws.amazon.com/switchrole?account=liiawsgtmlab&roleName=RDS-DBA-Access

##a5sPDHCmQnBb
##qwerPOIU1234

For Bob, Access RDS Instance,

ssh -v lchen@a0alptcajmp01.dev.liiaws.net --need only "" and/or keyfile
ssh -v lchen@a0aldgtmjmp00.gtmlab.liiaws.net --need "" and Duo cell phone to accept access

Username: lchen
"": tREMus-j65hE
==========

Dev AD:
https://rdpduobrk-east.liiaws.net/RDWeb/

Username: Dev-lii\lchen
~~##"": c6uNacctHAf!~~
tREMus-j65hE

Also need open Duo tool on Smartphone to get acess approvel(twice), how to setup account on Duo, please find AWS document

ssh -v lchen@a0alptcajmp01.dev.liiaws.net --need only "" and/or keyfile
ssh -v lchen@a0aldgtmjmp00.gtmlab.liiaws.net --need "" and Duo cell phone to accept access

Username: lchen
"": tREMus-j65hE

Autopushing login request to phone...
Success. Logging you in...
Last login: Thu Dec 22 14:50:33 2016 from 24.114.222.253
id: cannot find name for group ID 2067792385
[lchen@a0aldgtmjmp00 ~]$
[lchen@a0aldgtmjmp00 ~]$
[lchen@a0aldgtmjmp00 ~]$
[lchen@a0aldgtmjmp00 ~]$ sudo su - oracle
Last login: Thu Dec 22 14:56:44 EST 2016 on pts/0
[oracle@a0aldgtmjmp00 ~]$
[oracle@a0aldgtmjmp00 ~]$
[oracle@a0aldgtmjmp00 ~]$ env | grep ORA
ORACLE_SID=gtmdb
ORACLE_BASE=/u01/app/oracle
ORACLE_HOSTNAME=a0aldgtmjmp00.dev.liiaws.net
ORACLE_HOME=/u01/app/oracle/product/12.1.0/dbhome_1
[oracle@a0aldgtmjmp00 ~]$
[oracle@a0aldgtmjmp00 ~]$ ps -ef | grep ora

[oracle@a0aldgtmjmp00 ~]$
[oracle@a0aldgtmjmp00 ~]$ cd /gtmlab
[oracle@a0aldgtmjmp00 gtmlab]$ cd rds-52
[oracle@a0aldgtmjmp00 rds-52]$ ls -al
total 4
drwxr-xr-x 7 oracle domain_users 114 Dec 21 17:02 .
drwxr-xr-x 47 oracle domain_users 4096 Nov 4 09:33 ..
drwxr-xr-x 2 oracle domain_users   61 Dec 21 15:05 s1.putdumpfile
drwxr-xr-x 2 oracle domain_users   41 Dec 21 15:55 s2.impdumpfile
drwxr-xr-x 2 oracle domain_users   41 Oct 21 09:39 s3.expdumpfile
drwxr-xr-x 2 oracle domain_users   61 Oct 21 09:41 s4.getdumpfile
drwxr-xr-x 2 oracle domain_users   41 Dec 21 17:02 s5.impdumptcafile

[oracle@a0aldgtmjmp00 s2.impdumpfile]$ ls -al
total 8
drwxr-xr-x 2 oracle domain_users 41 Dec 21 15:55 .
drwxr-xr-x 7 oracle domain_users 114 Dec 21 17:02 ..
-rwxr--r-- 1 oracle domain_users 154 Dec 21 15:55 impfile.bash
-rw-r--r-- 1 oracle domain_users 290 Dec 21 15:57 nohup.out
[oracle@a0aldgtmjmp00 s2.impdumpfile]$ cat imp*

```
nohup impdp dbadmin/gtmlab11%%00@gtmlab52 SCHEMAS=tsmgr DIRECTORY=data_pump_dir
DUMPFILE=Moto3_copied.dmp LOGFILE=Moto3_copied.log > ./nohup.out 2>&1 &

[oracle@a0aldgtmjmp00 s2.impdumpfile]$
[oracle@a0aldgtmjmp00 s2.impdumpfile]$ cd
[oracle@a0aldgtmjmp00 ~]$
[oracle@a0aldgtmjmp00 ~]$ env | grep ORA
ORACLE_SID=gtmdb
ORACLE_BASE=/u01/app/oracle
ORACLE_HOSTNAME=a0aldgtmjmp00.dev.liiaws.net
ORACLE_HOME=/u01/app/oracle/product/12.1.0/dbhome_1
[oracle@a0aldgtmjmp00 ~]$
[oracle@a0aldgtmjmp00 ~]$ sqlplus dbadmin/gtmlab11%%00@gtmlab52

SQL*Plus: Release 12.1.0.2.0 Production on Thu Dec 22 15:07:31 2016

Copyright (c) 1982, 2014, Oracle.  All rights reserved.

Last Successful login time: Thu Dec 22 2016 14:57:58 -05:00

Connected to:
Oracle Database 12c Release 12.1.0.1.0 - 64bit Production

SQL> user
SP2-0042: unknown command "user" - rest of line ignored.
SQL> show user
USER is "DBADMIN"
SQL> quit
Disconnected from Oracle Database 12c Release 12.1.0.1.0 - 64bit Production
[oracle@a0aldgtmjmp00 ~]$


# tnsnames.ora Network Configuration File:
/u01/app/oracle/product/12.1.0/dbhome_1/network/admin/tnsnames.ora
# Generated by Oracle configuration tools.

GTMDB =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = a0aldgtmjmp00.dev.liiaws.net)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = gtmdb.dev.liiaws.net)
    )
  )

GTMLAB =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-00.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )
```

```
GTMLAB50 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-50.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB51 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-51.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB52 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-52.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB53 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-53.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB54 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-54.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB55 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-55.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
```

```
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB56 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-56.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB57 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-57.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB58 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-58.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB59 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-59.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB60 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-60.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )
```

```
GTMLAB61 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-61.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB62 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-62.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB63 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-63.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB64 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-64.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB65 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-65.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB66 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-66.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
```

```
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB67 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-67.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB68 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-68.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB69 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-69.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB70 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-70.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB71 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-71.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )
```

```
GTMLAB72 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-72.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB73 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-73.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB74 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-74.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB75 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-75.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB76 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-76.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB77 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-77.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
```

```
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB78 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-78.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB79 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-79.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB80 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-80.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB81 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-81.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB82 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-82.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )
```

```
GTMLAB83 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-83.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB84 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-84.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB85 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-85.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB86 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-86.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )


GTMLAB87 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-87.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB88 =
  (DESCRIPTION =
```

```
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-88.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB89 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-89.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )


GTMLAB90 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-90.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )

GTMLAB91 =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP)(HOST = gtmlab-rds-91.ckffjvcu0qin.us-east-
1.rds.amazonaws.com)(PORT = 1521))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = orcl)
    )
  )
```