**Loading data on AWS Oracle RDS using data pump**

01. Export the data for any table just like you would in a non AWS RDS context. This is run on your on-prem server.

expdp \'/ as sysdba \' parfile=aws.par

and the contents of the par file

directory=DEAN\_DATA\_PUMP

dumpfile=aws.dmp

logfile=aws.log

content=data\_only

tables=DEAN.TABLE\_01

02. On the on-prem database, create a db link pointing to the AWS RDS

create database link to\_aws

connect to rdsadmin identified by <password>

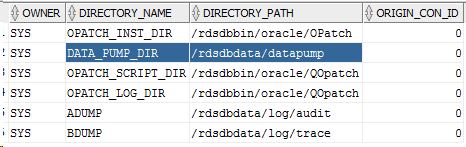
using '(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=deandb.cyiyft5sxxxx.us-west-2.rds.amazonaws.com)(PORT=1521))(CONNECT\_DATA=(SID=deanaws1)))';

03. Test the db link

select inst\_id, instance\_name, host\_name, status, to\_char(startup\_time, 'HH24:MI DD-MON-YY') "Startup time" from gv$instance@to\_aws order by inst\_id;

04. As part of the creation, AWS creates a default data pump directory on the file system that you allocated.

<make sure you allocate enough space when you created the RDS>:



05. Since we do not have access to the command line in an RDS instance you have to use DBMS\_FILE\_TRANSFER.PUT\_FILE to put the data file on the Amazon server:

BEGIN

DBMS\_FILE\_TRANSFER.PUT\_FILE(

source\_directory\_object => 'DEAN\_DATA\_PUMP',

source\_file\_name => 'aws.dmp',

destination\_directory\_object => 'DATA\_PUMP\_DIR',

destination\_file\_name => 'aws.dmp',

destination\_database => 'to\_aws'

);

END;

/

The green text is parameters on the on-prem server and the blue are parameters on the AWS RDS instance.

06. Check if the file landed on the RDS instance

select \* from table(RDSADMIN.RDS\_FILE\_UTIL.LISTDIR('DATA\_PUMP\_DIR'))

order by filename;

07. On the on-prem, create a TNS entry which will be used during import.

TNS\_TO\_AWS =

(DESCRIPTION =

(ADDRESS\_LIST =

(ADDRESS = (PROTOCOL = TCP)(HOST = deandb.cyiyft5sxxxx.us-west-2.rds.amazonaws.com)(PORT = 1521))

)

(CONNECT\_DATA =

(SERVER = DEDICATED)

(SID = DEANAWS1)

)

)

08. Confirm connectivity

On the on-prem server

sqlplus rdsadmin@TNS\_TO\_AWS

Check if connected to the RDS DB with

select inst\_id, instance\_name, host\_name, status,

to\_char(startup\_time, 'HH24:MI DD-MON-YY') "Startup time"

from gv$instance order by inst\_id;

09. Run the import from the on-prem server

impdp rdsadmin@TNS\_TO\_AWS DUMPFILE=aws.dmp DIRECTORY=DATA\_PUMP\_DIR full=y

10. You can check the success or failure of the import with the below SQL

select \* from table(RDSADMIN.RDS\_FILE\_UTIL.READ\_TEXT\_FILE('DATA\_PUMP\_DIR','import.log'));