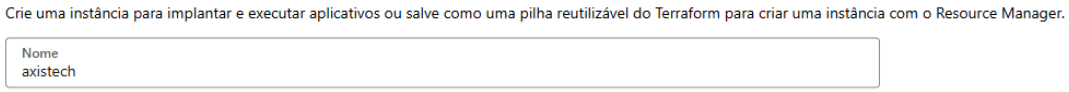
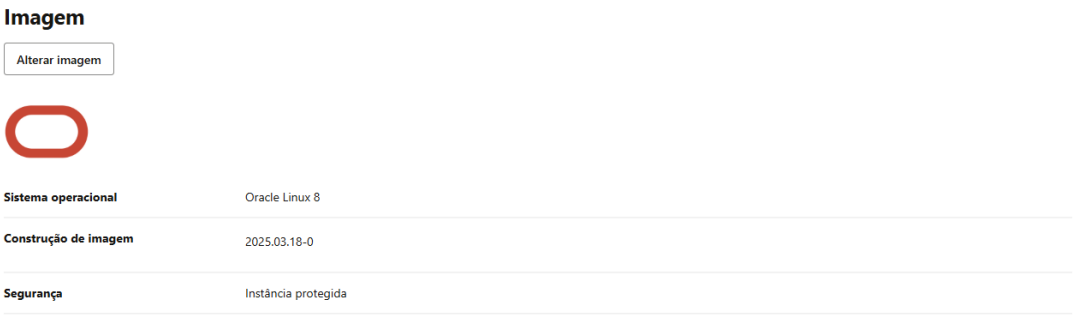
Architecture Analytics & NoSQL

Teste de evidência:

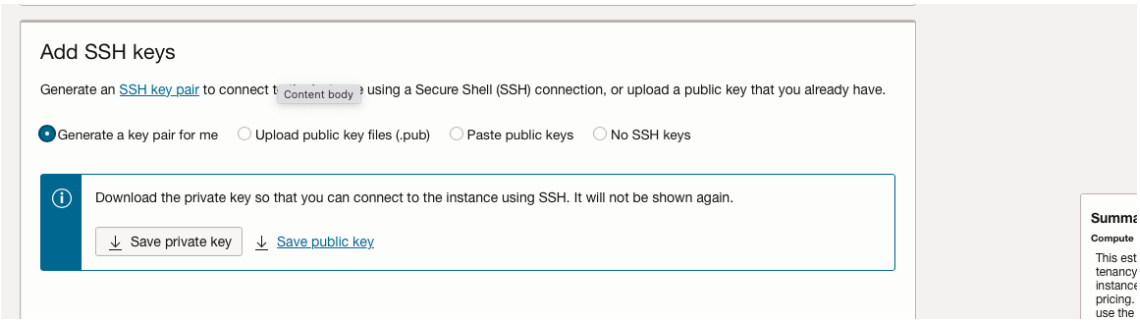
1- Primeiramente crie uma instancia da maquina no site da oracle nomeando-a:



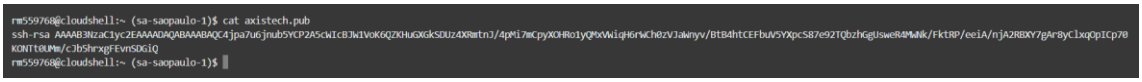
2- Selecionar a imagem da versão oracle, acima da versão 6.09:



3- Crie a chave pública e privada:

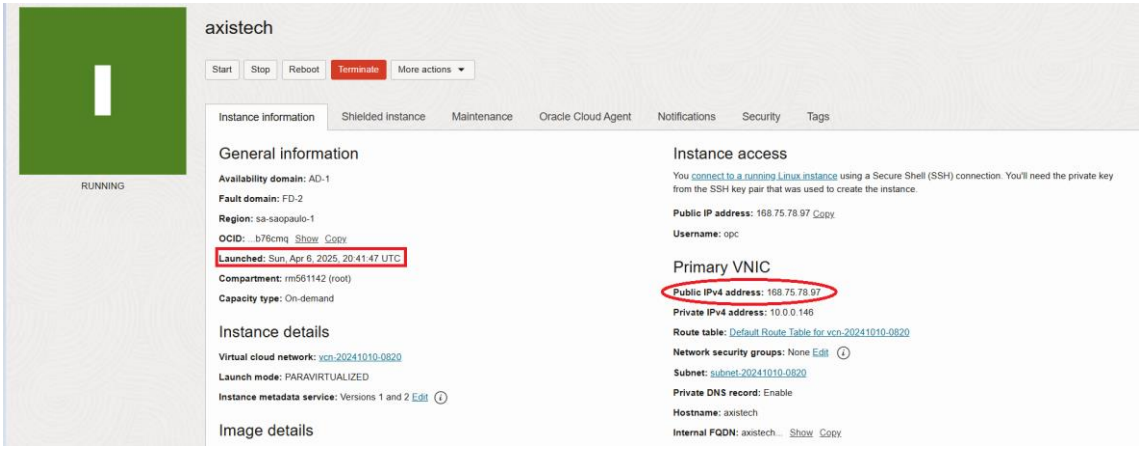


4- Abra o cloudshell e use cat na chave .pub que acabou de ser gerada:

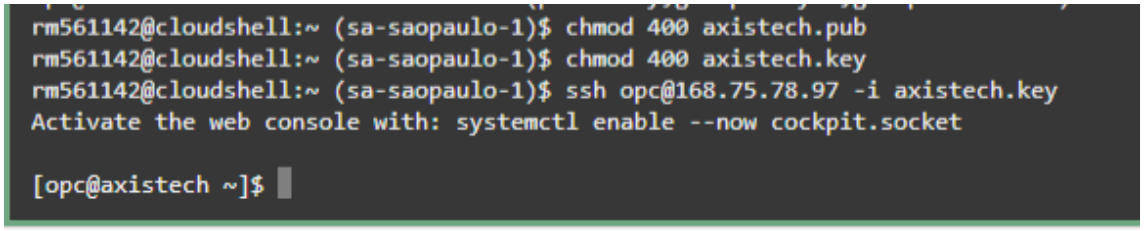


5- Copie o código que foi gerado após utilizar o cat axistech.pub no cloudshell e cole na caixa de texto da opção ssh keys:

6- Após pegar o código da chave inicie a máquina até ela ficar pronta e já copie o ip para a próxima etapa:

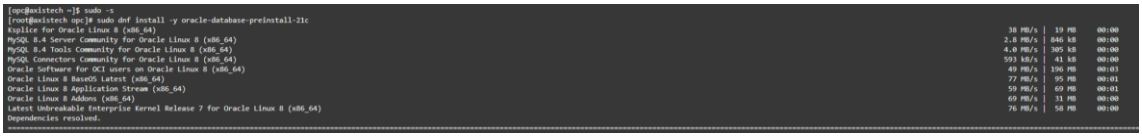


7- **Pegar a sua ip da máquina criada para utilizar o comando ssh opc@(**OBS: Tivemos que utilizar o chmod 400 nas 2 chaves para conseguir a permissão para conectar):



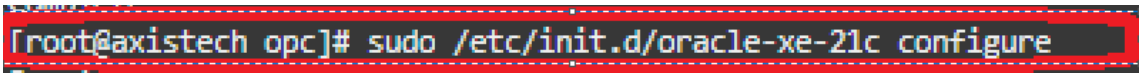
8- **Utilizar o sudo -s para executar comandos como se fosse o root e depois usar o dnf instal para baixarmos o database oracle 21c:**

```
[opc@axistech ~]$ sudo -s
[root@axistech opc]# sudo dnf install -y oracle-database-preinstall-21c
```



9- **Vamos verificar se o arquivo rpm foi baixado:**

10- **Configurar o arquivo da oracle 21c após sua instalação:**



11- **Agora vamos acessar o sql após a instalação e configuração do oracle 21c usando o sqlplus sys; para acessar nossa máquina virtual no cloudshell em outra máquina é obrigatório fazer os 3 exports mostrado nessa imagem antes de dar o comando sqlplus:**

```
[root@axistech opc]# export ORACLE_HOME=/opt/oracle/product/21c/dbhomeXE
[root@axistech opc]# export PATH=$ORACLE_HOME/bin:$PATH
[root@axistech opc]# export ORACLE_SID=XE
[root@axistech opc]# sqlplus sys/axistech@localhost:1521/XEPDB1 as sysdba

SQL*Plus: Release 21.0.0.0.0 - Production on Mon Apr 7 00:09:51 2025
Version 21.3.0.0.0

Copyright (c) 1982, 2021, Oracle.  All rights reserved.


Connected to:
Oracle Database 21c Express Edition Release 21.0.0.0.0 - Production
Version 21.3.0.0.0

SQL>
```

12- Criação da tabela SQL com base no nosso dataset escolhido, inserindo as colunas e o tipo delas:

```
SQL> CREATE TABLE T_MARKET_SALES (
    INVOICE_ID       VARCHAR2(26 BYTE),
    BRANCH           VARCHAR2(26 BYTE),
    CITY             VARCHAR2(26 BYTE),
    CUSTOMER_TYPE    VARCHAR2(26 BYTE),
    GENDER           VARCHAR2(26 BYTE),
    PRODUCT_LINE     VARCHAR2(26 BYTE),
    UNIT_PRICE       NUMBER(38,2),
    QUANTITY         NUMBER(38,0),
    TAX_5_PERCENT    NUMBER(38,4),
    TOTAL            VARCHAR2(26 BYTE),
    DATA             DATE,
    TIME             VARCHAR2(26 BYTE),
    PAYMENT          VARCHAR2(26 BYTE),
    COGS             NUMBER(  2  38,2),
    RATING           NUMBER(38,1)
);
  3    4    5    6    7    8    9   10   11   12   13   14   15   16   17
Table created.
```

13- Inserindo os dados da tabela e o commit:

```
SQL> INSERT INTO T_MARKET_SALES (
    INVOICE_ID, BRANCH, CITY, CUSTOMER_TYPE, GENDER, PRODUCT_LINE,
    UNIT_PRICE, QUANTITY, TAX_5_PERCENT, TOTAL, DATA, TIME, PAYMENT,
    COGS, RATING
) VALUES (
    '750-67-8428', 'A', 'Yangon', 'Member', 'Female', 'Health and beauty',
    74.69, 7, 26.1415, '548.9715', TO_DATE('2023-01-05', 'YYYY-MM-DD'), '13:27', 'Ewallet',
    522.83, 9.1
);

INSERT INTO T_MARKET_SALES (
    INVOICE_ID, BRANCH, CITY, CUSTOMER_TYPE, GENDER, PRODUCT_LINE,
    UNIT_PRICE, QUANTITY, TAX_5_PERCENT, TOTAL  2  , DATA, TIME, PAYMENT,
    COGS, RATING
) VALUES (
    '226-31-3081', 'C', 'Naypyitaw', 'Normal', 'Male', 'Electronic accessories',
    15.28, 5, 3.82, '80.22', TO_DATE('2023-01-07', 'YYYY-MM-DD'), '15:30', 'Credit card',
    76.4, 7.2  3
);

INSERT INTO T_MARKET_SALES (
    INVOICE_ID, BRANCH, C  4  ITY, CUSTOMER_TYPE, GENDER, PRODUCT_LINE,
    UNIT_PRICE, QUANTITY, TAX_5_PERCENT, TOTAL, DATA, TIME, PAYMENT,
    COGS, RATING
) V  5  ALUES (
    '373-73-7910', 'B', 'Mandalay', 'Member', 'Male', 'Food and beverages',
    46.33, 3, 6.9495, '145.9395', TO_DATE('2023-01-09', 'YYYY-MM-DD'), '12:45', 'Cash',
    139.  6  0, 8.6
);

COMMIT;
  7    8    9
1 row created.
```

14 – Consulta da tabela usando o SELECT:

```
SQL> SELECT * FROM T_MARKET_SALES;

INVOICE_ID              BRANCH                  CITY
----------------------- ----------------------- -----------------------
CUSTOMER_TYPE           GENDER                  PRODUCT_LINE
----------------------- ----------------------- -----------------------
UNIT_PRICE   QUANTITY TAX_5_PERCENT TOTAL                   DATA
---------- ---------- ------------ ---------------------- ---------
TIME                    PAYMENT                      COGS     RATING
----------------------- ----------------------- ---------- ----------
750-67-8428             A                       Yangon
Member                  Female                  Health and beauty
     74.69          7       26.1415 548.9715              05-JAN-23
13:27                   Ewallet                     522.83        9.1

INVOICE_ID              BRANCH                  CITY
----------------------- ----------------------- -----------------------
CUSTOMER_TYPE           GENDER                  PRODUCT_LINE
----------------------- ----------------------- -----------------------
UNIT_PRICE   QUANTITY TAX_5_PERCENT TOTAL                   DATA
---------- ---------- ------------ ---------------------- ---------
TIME                    PAYMENT                      COGS     RATING
----------------------- ----------------------- ---------- ----------
226-31-3081             C                       Naypyitaw
Normal                  Male                    Electronic accessories
     15.28          5         3.82 80.22              07-JAN-23
15:30                   Credit card                   76.4        7.2

INVOICE_ID              BRANCH                  CITY
----------------------- ----------------------- -----------------------
CUSTOMER_TYPE           GENDER                  PRODUCT_LINE
----------------------- ----------------------- -----------------------
UNIT_PRICE   QUANTITY TAX_5_PERCENT TOTAL                   DATA
---------- ---------- ------------ ---------------------- ---------
TIME                    PAYMENT                      COGS     RATING
----------------------- ----------------------- ---------- ----------
373-73-7910             B                       Mandalay
Member                  Male                    Food and beverages
     46.33          3        6.9495 145.9395              09-JAN-23
12:45                   Cash                         139        8.6
```

-Finalizando a parte do cloudshell temos que colocar as informações para o acesso remoto ao banco da Oracle que acabamos de configurar:

```
IP público: 168.75.78.97
```

```
Usuário: system
Senha: axistech
Service name: XEPDB1
```

-Com esses dados conseguimos entrar por outra vm pelo cloudshell e acessar esta tabela que criamos que está em outra VM.