

## Ejercicio 3 - Preguntas en general (Soluciones de pocas líneas)

**a- ¿Qué formas de hacer scheduling de una tarea en linux conoce?**

Conozco `cron` para scheduling via terminal.

En caso de workflow management systems conozco Airflow.

**b- ¿Cómo y con qué comandos guardaría la mayor cantidad de detalle sobre las salidas de un script python que desea ejecutar de forma diaria a las 6AM?**

Para utilizar `cron` se debe especificar un lista de trabajos via `crontab` (cron table) con el siguiente formato

```

|_____ minute (0 - 59)
|_____ hour (0 - 23)
|_____ day of month (1 - 31)
|_____ month (1 - 12)
|_____ day of week (0 - 6) (Sunday to Saturday;
|                          7 is also Sunday on some systems)
|
| * * * * * command to execute

```

Comandos:

# Modificamos la lista de trabajos con un editor en modo edicion `-e`

```
env EDITOR=[someEditor] crontab -e
```

# Agregamos el trabajo que queremos repetir en forma diaria a las 6AM

```
0 6 * * * cd ~/path/to/script && python3 script.py >> script.out
```

Notas:

- Notar como podemos especificar el path hasta el directorio que contiene el script y usar `&&` para encadenar comandos
- En caso de no reconocer `python3` podemos especificar su path `/usr/bin/python3` (obtener con `whereis python3`)
- Podemos guardar el output de nuestro script en `script.out` utilizando `>>` para tener mas detalles del output

**c- ¿Qué comando o serie de comandos utilizaría para subir todos los contenidos de un directorio a un bucket de S3?**

```
# Asumiendo el siguiente directorio local
/Users/ln/ejercicios
ejer_1.sql ejer_2.py ejer_3.pdf

# Asumiendo que estamos logeados al cliente aws , creamos un dummy bucket en S3
aws s3 mb s3://challenge-etermax --region sa-east-1

# Utilizamos el comando cp para subir el directorio e indicamos opcion --recursive
aws s3 cp /Users/ln/ejercicios s3://challenge-etermax --recursive

# Genericamente
aws s3 cp [path_to_directorio_origen] [path_to_bucket_destino] --recursive
```

**d- Si una instancia de Redshift utilizada para reporting se está quedando sin espacio y se impone la necesidad de sacar algunos datos antiguos de la base, pero a pesar de que los datos de más de seis meses de antigüedad no se utilicen para reporting, se los requiere para entrenar y validar modelos predictivos, además de hacer algunos análisis ad-hoc en SQL a un precio razonable considerando tanto infraestructura como costos de consultas ¿Que tipo de solución propondría para poder consultar los datos usando servicios cloud en AWS?**

TL-DR: Podríamos migrar los datos antiguos desde Redshift a un Data Lake

Podemos basar esta decision comparando nuestras opciones:

a) Data Warehouse (DW): base de datos optimizada para el analisis de datos. La estructura y schema de los datos esta bien definida para optimizar SQL queries complejos cuyos resultados son usados para reporte operacional y analisis. La data en un DW debe encontrarse limpia, enriquecida y trasformada para optimizar su rapido analisis. Por consiguiente, el costo de almacenamiento de datos es mayor en los DW.

Usuarios tipicos: business analysts.

Tareas tipicas: Batch reporting, BI and visualizations.

b) Data Lake (DL): pueden ser utilizados para almacenar datos de fuentes muy variadas (por ejemplo: data relacional de operaciones de negocio, data no relacional de aplicaciones mobiles, social media, etc.). Su estructura y schema no esta definida como el caso del DW (se puede definir al momento de su uso), por lo cual no se requiere tanto planeamiento y diseno para guardar los datos. Diferentes tipos de tecnicas como SQL queries, big data analytics y machine learning models pueden servirse de datos desde un DL. En contraposicion a los DW, el costo de almacenamiento en DL es menor.

Usuarios tipicos: Data Scientists, Data Developers y Business Analysts (usando datos curados).

Tareas tipicas: Machine Learning, Predictive analytics, data discovery and profiling.

Source: <https://aws.amazon.com/big-data/datalakes-and-analytics/what-is-a-data-lake/>  
(<https://aws.amazon.com/big-data/datalakes-and-analytics/what-is-a-data-lake/>)

In [ ]:

In [ ]:

## Checkeo output Ejercicio 2

```
In [1]: import pandas as pd
```

```
In [2]: datos = pd.read_csv('./data/DatosLimpios.csv', sep='|', header = 0, index_col = 'id', encoding='UTF-8')
datos.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 1000 entries, 1 to 1000
Data columns (total 4 columns):
#   Column          Non-Null Count  Dtype
---  -
0   first_name      988 non-null   object
1   last_name       991 non-null   object
2   account_number  1000 non-null  object
3   email           1000 non-null  object
dtypes: object(4)
memory usage: 39.1+ KB
```

```
In [3]: pd.set_option("display.max_rows", None)  
datos
```

Out[3]:

	first_name	last_name	account_number	email
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