Beginner-friendly Python for Oracle Techies

This beginner-friendly Python lecture will take you from zero to programming in Python.

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Bruno Reis da Silva

- Afro-Brazilian
- Outside the coding world:
- Loves to travel : 30 countries and counting;
- Learn Languages: Portuguese, Spanish,
- English and currently learning Swedish;
- Working out.

 \mathbf{O}





- Joined at IBM Brazil as a contractor. (June 2011 -December 2013). Role: Junior Oracle DBA



- Became an IBM employee (IBMER). (December 2013 -December 2016). Role: Oracle DBA Specialist -Subject Matter Expert



- Promoted to Hungary, Europe. (December 2016 -October 2018). Role: Senior Oracle Cloud Database Administrator. (IT Advisory).



Rio de Janeiro/RJ

- Promoted to Sweden, Europe. (October 2018 -Second Semester 2020). Role: Senior Oracle Database Admiinstrator & Database Cloud Support Engineer.



Juíz de Fora/MG

Joined an Oracle Partner in Sweden called Epico Tech, former Miracle Sweden. (Second Semester 2020 onwards). Role: Oracle Consultant

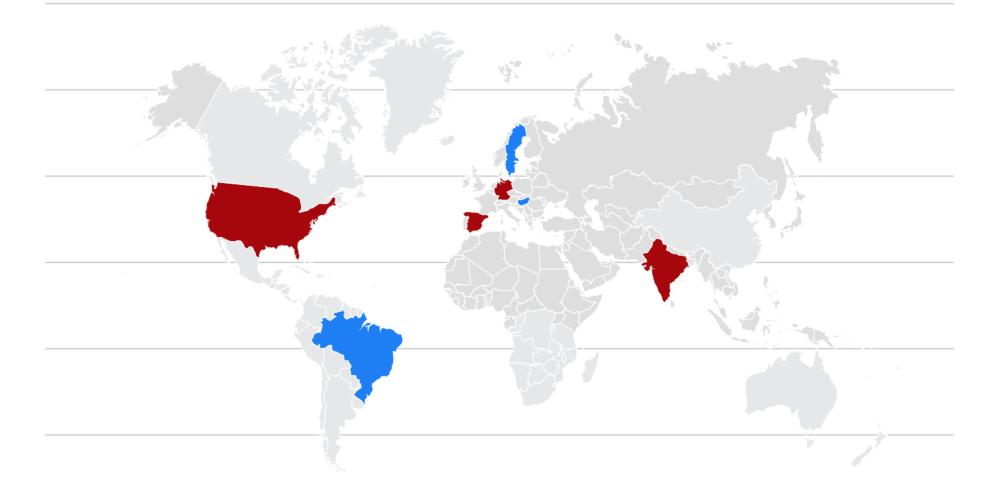




https://github.com/brunorsreis/oraclepython - Oracle IBM, Open Group Certified

Oracle IBM, Open Group Certified
 Collaborator of LUXOUG and member of SWEOUG.

Bruno Reis da Silva



Project I have worked locally: South America: - Brazil (5 years) 2011-2016 Europe: - Hungary (2 years) 2016-2018 - Sweden (2 years) 2018- onwards

Projects I have worked remotely: •North America: - The United States of America (USA) •Europe: - Spain, Germany •Asia:

- India

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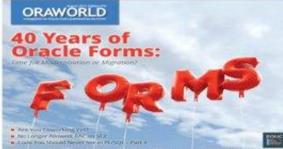
http://www.oraworld.org

Issue #19/2020

Our first issue of 2020 dives into the history of AskTOM. Connor McDonald reflects on its inception and how his personal journey intertwines with it. Meanwhile, Jim Czuprynski reveals his super-power: Autonomous DB and ML. Enjoy these and many more stories!

Download Issue 19/2020

Issue #16/2019



Issue #16 celebrates 40 years of Oracle Forms. We look at the history of the famous software tool including an interview with its developer Bill Friend. Also, we conclude

Issue #18/2019

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Issue 18 takes a look at Self-Service Integration with author Arturo Viveros answering the questions What?, Why? and How? The last issue of the year also marks the starts of a new series on APEX by Carsten Czarski. Of course, you can expect many more stories from the Oracle world.

Download Issue 18/2019

Issue #15/2019

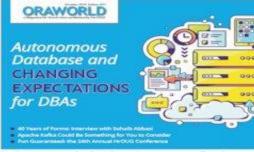


The focus of issue #15 is on games: We have an interview with gamification expert Dr. Mathias Fuchs who examines the phenomenon from a cultural and political perspective.

Issue #17/2019

Submit your contribution

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In this issue we look at how Autonomous Database will change the work for DBAs. Also, concluding our 40 Years of Forms feature, we bring you an insightful interview with Sohalb Abbasi, the former Senior Vice President of Oracle's Tools and Education divisions.

Download Issue 17/2019

Issue #14/2019



An Introduction



- Importance of Data Clustering
- Interview.
 Perspectives in the area of Audit and Loems Right
- * The APEX Tour Or the Power of a Good Mojito
- . The Best of Browser Extensions

Issue #14 highlights ways to generate the perfect user experience. You will dive deep into such diverse topics as digitalization for seniors, the importance of data clustering,





What to expect from this presentation and the reasons behind it:

- Physical DBAs and Developers DBAs are evolving
- Automation is becoming more relevant
- Kick-start for Python programming language
- Oracle Database and multi-cloud is already a reality





ORACLE Autonomous Database

Advice for Upwardly Mobile DBAs

Ten Ways to Advance Your Career in an Era of Autonomous Database Technology

https://www.oracle.com/a/ocom/docs/applications/50704-oracle-strategic-dba-checklist.pdf

As enterprises transition to Oracle Autonomous Database, routine administrative and infrastructure tasks—such as provisioning new databases, upgrading or patching existing databases, tuning queries, and making backups—are no longer necessary. While some database administrators (DBAs) may be uneasy about this incursion into their traditional administrative turf, others see the potential to liberate themselves from routine maintenance tasks. Here are 10 ways to enhance your career, get in front of this rising wave of automation, and learn to spearhead new business initiatives.

- 1. **Pivot:** Shift your role from database administrator to data architect.
- Create: Focus on data delivery and data modeling, not on routine maintenance.
- 3. Evolve: Look for opportunities to work on projects that involve security, information lifecycle management, and application tuning.
- 4. Learn: Educate yourself on the latest Oracle Database product offerings, so you know when to recommend Oracle Autonomous Database rather than another cloud service.
- Experiment: Volunteer to try out new software by signing up for beta test programs, so you can stay abreast of new product capabilities that will keep your organization at the cutting edge.

- Collaborate: Get involved with agile development projects to help developers quickly create new applications and iterations.
- 7. Innovate: Devise better ways to predict how data can be used to deliver better predictive insight, improve customer experience or apply data to create new revenue opportunities.
- 8. Analyze: Help business professionals discern trends and patterns in their data and use new types of analytics tools.
- Orchestrate: Develop broader insight into data life cycle and help broker a smooth transition to the cloud.
- Strategize: Don't let user requests dominate your time. Get involved in security, performance tuning, high availability, migrations, and upgrades—all the things that move your business forward.

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Read the new ipaper here. ightarrow

It contains other relevant insights from IT experts: Oracle Database experts, ACE Directors, and savvy database professionals who see the wisdom and advantages of embracing automation.

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- Python is an interpreted, high-level, general-purpose programming language ;
- Guido van Rossum is the creator and the first released of Python was in 1991;
- Easy and intuitive language;
- Open Source
- Suitability for everyday tasks
- Python is case sensitive: BR $<>\,\mathrm{br}$
- Comments #
- Similar $\rm PL/SQL$ but not the same. It's a plus if you already know $\rm PL/SQL$.



Basics concepts:

1 - Types :

1.1 INT: E.g 12

- Integers can be negative or positive;

- Finite range;

1.2 FLOAT :

- Real numbers: E.g 12.21
- Float can be an integer



Sec. 41

Basics concepts: 1 - Types :

1.3 STRINGS: Description = "SKI IS BLUE"

S	K	I		I.	S		В	L	U	E
0	1	3	4	5	6	7	8	9	10	11

1.4 BOOLEAN: True (T) - 1 False (F) - 0



Section and



- Typecasting

Integer 2 -> Float 2.0; Float 1.1 -> Integer 1;





Expressions

Example: 5+10=15

+	addition operator		
_	subtraction operator		
*	multiplication operator		
/	division operator		
/	integer divide operator		
%	modulus (remainder) operator		



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Variables

```
_salary = 500.000
Name = "Reis"
print(_salary)
print(Name)
```



Tuples

- Here is a TUPLE "numbers":

numbers=(0,23,5,6,7,2,4,24)

- Tuples are immutable.



194 414

Lists

- Here is a List "B":

B=['Lebron James', 15.2, 1975]

- List are mutable



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Dictionaries

{"key01":1,"key02":"02","key03":[3,3,3],"key04":(4,4,4),"key05":5}





Sets

players_list=["Ronaldo","Real Madrid", "Real Madrid", 2001]
players_set=set(players_list)
players_set:{'Ronaldo','Real Madrid', 2001}



12 40

Functions

```
- Python has many built-in functions.
```

```
def function(d):
    #add 20 to d
f=d+20;
```

```
print(d, "Plus 20 is =", f)
return f;
```



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Objects

class myexampleclass:

d=250;

b1=myexampleclass()
print(b1.d)



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Objects

- built-in __init__() function

```
class Customer:
    def __init__(person, name, age):
        person.name = name
        person.age = age
```

pl = Customer("Maria", 52)

print(pl.name)
print(pl.age)

Maria 52



Objects methods

- built-in __init__() function

```
class Customer:
    def __init__(person, name, age):
        person.name = name
        person.age = age
    def function01(person):
        print("The name of the person is " + person.name)
```

p1 = Customer("Maria", 52)

pl.function01()

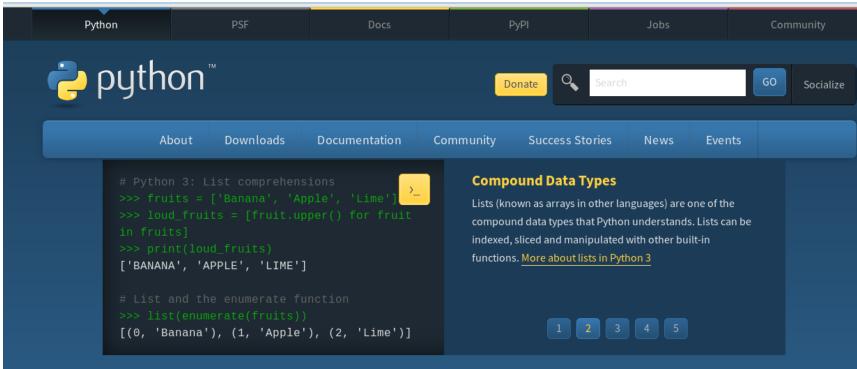
The name of the person is Maria





- https://www.python.org/

Python Software Foundation (US) | https://www.python.org



Python is a programming language that lets you work quickly and integrate systems more effectively. <u>>>> Learn More</u>



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- Install in Oracle Linux.

- Documentation: <u>https://yum.oracle.com/oracle-linux-python.html</u>

https://yum.oracle.com/oracle-linux-python.html

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S. Carlos and

- Install in Oracle Linux 6
- Documentation: <u>http://yum.oracle.com/repo/OracleLinux/OL6/latest/x86_64/index.html</u>

yum.oracle.com/repo/OracleLinux/OL6/latest/x86_64/index.html

	10.55
	18-
python-2.6.6-66.0.1.el6 8.x86 64.rpm	Aug-2016 75.8 K
	15:49
	13-
python-2.6.6-68.0.1.el6_10.x86_64.rpm	Jun-2019 76.0 K
p , c	12:49
	05-
python-2.6.6-68.0.2.el6 10.i686.rpm	Dec-2019 76.2 K
bycholi-2.0.0-08.0.2.eto_10.1080.1pm	01:13
	05-
<pre>python-2.6.6-68.0.2.el6_10.x86_64.rpm</pre>	Dec-2019 76.2 K
	01:13
	03-



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- Install in Oracle Linux 7

- Documentation: <u>http://yum.oracle.com/repo/OracleLinux/OL7/latest/x86_64/index.html</u>

yum.oracle.com/repo/OracleLinux/OL7/latest/x86_64/index.html

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~		12-	
fpin	python-2.7.5-68.0.1.el7.x86_64.rpm	Apr-2018	92.5 K
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		03-	
(pm)	python-2.7.5-69.0.1.el7 5.x86 64.rpm	Jul-2018	92.6 K
	N	14:00	
		01-	
(pm)	python-2.7.5-76.0.1.el7.x86 64.rpm	Nov-2018	93.8 K
9	pychon-2.7.5-70.0.1.ec7.x00_04.1pm	10:47	55.0 K
		09-	
fpm	author 2 7 5 77 0 1 al7 6 w06 64 and		03 0 K
0	python-2.7.5-77.0.1.el7_6.x86_64.rpm	Apr-2019 23:37	93.9 K
		04-	
fpm	python-2.7.5-79.0.1.el7_6.x86_64.rpm	Jun-2019	94.1 K
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(pm)	python-2.7.5-80.0.1.el7_6.x86_64.rpm	Jun-2019	94.3 K
		21:04	
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ma	python-2.7.5-86.0.1.el7.x86_64.rpm	Aug-2019	95.1 K
_		08:48	
		05-	
fpm	python-2.7.5-86.0.3.el7.x86 64.rpm	Dec-2019	95.3 K
		02:06	
		27-	
fpm	python-2.7.5-88.0.1.el7.x86 64.rpm	Nov-2019	95.4 K
9		10.30	



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- Know the Python version in your system:

- Python on Oracle Linux 6.10

[root@sel ~]# which python /usr/bin/python [root@sel ~]# python --version Python 2.6.6 [root@vm2 ~]# cat /etc/oracle-release Oracle Linux Server release 6.10 [root@sel ~]# |

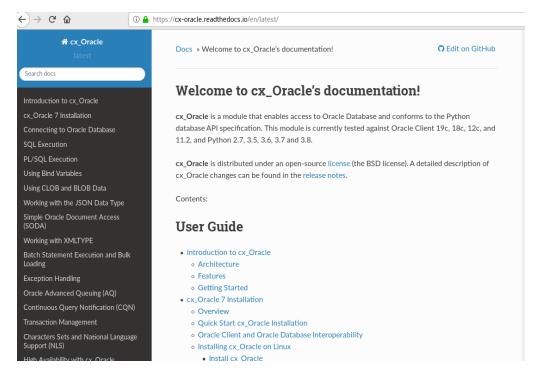
- Python on Oracle Linux 7.6

[oracle@localhost ~]\$ which python /bin/python [oracle@localhost ~]\$ python --version Python 2.7.5 [oracle@localhost ~]\$ cat /etc/oracle-release Oracle Linux Server release 7.6 [oracle@localhost ~]\$ uname -a Linux localhost.localdomain 4.14.35-1818.3.3.el7uek.x86_64 #2 SMP Mon Sep 24 14: 45:01 PDT 2018 x86_64 x86_64 x86_64 GNU/Linux [oracle@localhost ~]\$

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- **1 Connect to the Oracle Database.**
- 1.1 cx_Oracle x Installation :

- Documentation: https://cx-oracle.readthedocs.io/en/latest/





Section 1

- cx_Oracle x Installation – Pre-requisites:

• Install python version 3;

oraclelinux7]#python--version Python 2.7.5

oraclelinux7]#yuminstall-ypython3

Loaded plugins: langpacks, ulninfo

Resolving Dependencies

--> Running transaction check

- ---> Package python3.x86_64 0:3.6.8-13.0.1.el7 will be installed
- --> Processing Dependency: python3-libs(x86-64) = 3.6.8-13.0.1.el7 for package: python3-3.6.8-13.0.1.el7.x86_64
- --> Processing Dependency: python3-pip for package: python3-3.6.8-13.0.1.el7.x86_64
- --> Processing Dependency: python3-setuptools for package: python3-3.6.8-13.0.1.el7.x86_64
- --> Processing Dependency: libpython3.6m.so.1.0()(64bit) for package: python3-3.6.8-13.0.1.el7.x86_64
- --> Running transaction check
- ---> Package python3-libs.x86_64 0:3.6.8-13.0.1.el7 will be installed
- ---> Package python3-pip.noarch 0:9.0.3-7.el7_8 will be installed

---> Package python3-setuptools.noarch 0:39.2.0-10.el7 will be installed

•••

•••

Dependency Installed: python3-libs.x86_640:3.6.8-13.0.1.el7 0:39.2.0-10.el7

python3-pip.noarch0:9.0.3-7.el7_8

python3-setuptools.noarch



Sec. With

Complete! oraclelinux7]#

- cx_Oracle x Installation – Pre-requisites:

•Install Cx_Oracle 7 from Pypi: <u>https://pypi.org/project/cx-Oracle/</u>

oraclelinux7] python3 -m pip install cx_Oracle --upgrade Collecting cx_Oracle Using cached <u>https://files.pythonhosted.org/packages/d5/15/d38862a4bd0e18d8ef2a3c98f39e743b8951ec</u> <u>5efd8bc63e75db04b9bc31/cx_Oracle-7.3.0-cp36-cp36m-manylinux1_x86_64.whl</u> Installing collected packages: cx-Oracle Successfully installed cx-Oracle-7.3.0



12 400

- cx_Oracle x Installation – Pre-requisites:

•Install Oracle Instant Client:

Oracle Instant Client Zip Files

https://www.oracle.com/ae/database/technologies/instant-client/linux-x86-64-downloads.html

Oracle Instant Client RPMs yum install oracle-instantclient12.1-basic-12.1.0.2.0-1.x86_64.rpm

(Example of Instant Client Installation for Oracle Database 12cR1):

oraclelinux7]# yum install oracle-instantclient12.1-basic-12.1.0.2.0-1.x86_64.rpm Loaded plugins: langpacks, ulninfo Examining oracle-instantclient12.1-basic-12.1.0.2.0-1.x86_64.rpm: oracle-instantclient12.1-basic-12.1.0.2.0-1.x86_64. Marking oracle-instantclient12.1-basic-12.1.0.2.0-1.x86_64.rpm to be installed Resolving Dependencies ---> Running transaction check ---> Package oracle-instantclient12.1-basic.x86_64 0:12.1.0.2.0-1 will be installed Installed: oracle-instantclient12.1-basic.x86_64

Complete! oraclelinux7]#



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- cx_Oracle x Installation – Pre-requisites:

•Add Instant Client to the runtime link path .

•oraclelinux7]#sh -c "echo /usr/lib/oracle/12.2/client64/lib > /etc/ld.so.conf.d/oracleinstantclient.conf" oraclelinux7]#ldconfig oraclelinux7]\$ export LD_LIBRARY_PATH=/usr/lib/oracle/12.1/client64/lib:\$LD_LIBRARY_PATH



2.4.7

- 1 Connect to the Oracle Database.
- **1.2** Install the Oracle Database software (Example of a 12Cr1 Oracle Database software installed in a Oracle Linux 7.6):

SQL*Plus: Release 12.1.0.2.0 Production on Mon Jun 1 05:24:19 2020

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

Connected to: Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production With the Partitioning, OLAP, Advanced Analytics and Real Application Testing options

SQL> select instance_name, status from v\$instance;

INSTANCE_NAME STATUS

pythondb OPEN



1 - Connect to the Oracle Database.

1.3 - Create the script to connect to the Oracle Database (Script called myconnectdb.py):

oraclelinux7]\$ cat myconnectdb.py
from __future__ import print_function
import cx_Oracle

Connect as user "c##brunors" with password "112233" to the "oraclepdb" service running on this computer. connection = cx_Oracle.connect("c##brunors", "112233", "pythondbhost.localdomain/pythondbservice.localdomain")

cursor = connection.cursor()

cursor.execute(
 'SELECT count(*) from all_users')
for value in cursor:

print("Values:", value)

oraclelinux7]\$ python3 myconnectdb.py Values:(36,)



2 - E.g Comparing files to be used by na Oracle External tables :
2.1 File:
File techtable1.txt:

oraclelinux7]\$cattechtable1.txt BRZ,Brazil,Portuguese NEZ,New Zealand,English PRT,Portugal,Portuguese SPN,Spain,Spanish

File techtable2.txt:

oraclelinux7]\$ cattechtable2.txt ITL,Italy,Italian ENG,England,English SWE,Sweden,Swedish HUN,Hungary,Hungarian



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2 - E.g Comparing files to be used by an Oracle External tables :

2.2 File comparetablefiles.py:

```
oraclelinux7]$ cat comparetablefiles.py
f1=open("techtable1.txt","r")
f2=open("techtable2.txt","r")
n = 0
for line1 in f1:
  for line2 in f2:
     if line1==line2:
       print("Same value in both lines.\n", line1[n])
       n += 1
     else:
       print("The line" ,n, "at the file techtable1.txt is:")
       print(line1)
       print(" The line", n, "at the file techtable2.txt is:")
       print(line2)
       n += 1
     break
f1.close()
f2.close()
```



12 400

2 - E.g Comparing files to be used by an Oracle External tables :

2.3 - File comparetablefiles.py:

oraclelinux7]\$ python comparetablefiles.py ('The line', 0, 'at the file techtable1.txt is:') BRZ,Brazil,Portuguese

(' The line', 0, 'at the filetechtable2.txt is:') ITL,Italy,Italian

('The line', 1, 'at the file techtable1.txt is:') NEZ,New Zealand,English

(' The line', 1, 'at the file techtable2.txt is:') ENG,England,English

('The line', 2, 'at the file techtable1.txt is:') PRT,Portugal,Portuguese

(' The line', 2, 'at the filetechtable2.txt is:') SWE,Sweden,Swedish

('The line', 3, 'at the file techtable1.txt is:') SPN,Spain,Spanish

(' The line', 3, 'at the file techtable2.txt is:') HUN,Hungary,Hungarian



14. 41.4

- 4- Python and OCI:
- 4.1 Python OCI SDK:

Documentation:<u>https://docs.cloud.oracle.com/en-us/iaas/Content/API/SDKDocs/pythonsdk.htm</u> Github Oracle: <u>https://github.com/oracle/oci-python-sdk</u>

🛈 🔒 https://docs.cloud.oracle.com/en-us/iaas/Content/API/SDKDocs/pythonsdk.htm

Q Search.

Oracle Cloud Infrastructure Documentation

- Getting Started
- Oracle Cloud's Free Tier
- Oracle Cloud Infrastructure Government Cloud
- Services
- ▼ Developer Resources
- Developer Guide
- Setup and Prerequisites
- Working with Cloud Shell
- Working with the Command Line Interface (CLI)
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- SDK for Java
- SDK for Python

SDK for Ruby

SDK for Go

SDK for Python

The Oracle Cloud Infrastructure SDK for Python enables you to write code to manage Oracle Cloud Infrastructure resources.

This SDK and sample is dual-licensed under the Universal Permissive License 1.0 and the Apache License 2.0; third-party content is separately licensed as described in the code.

Download: The SDK for Python is available on GitHub or the Python Package Index (PyPi) -

Documentation: Available on readthedocs.io ----

Services Supported

- Analytics Cloud
- Announcements



4- Python and OCI (Oracle Cloud Infrastructure):

4.2 - Oracle Application Container Cloud Service :

https://docs.oracle.com/en/cloud/paas/app-container-cloud/index.html

① ▲ https://docs.oracle.com/en/cloud/paas/app-container-cloud/index.html \bigcirc **Help Center** Home / Cloud / Cloud Platform / Application Container Cloud Service Get Started What's New **Oracle Application Container Cloud Service** Tutorials Create Your First Get Started Applications Create Java SE Oracle Application Container Cloud Service provides a lightweight infrastructure so that you can run applications in the Oracle Cloud. Applications START HERE Create Java EE Applications ø $\langle \rangle$ Create Node.js Applications Discover Develop Applications Create PHP Applications Learn about Oracle Application Container Cloud Service Understand design requirements Create Python Related Video Understand packaging requirements Applications Create your first application (tutorials) Use a cache FAQ Troubleshoot Create Ruby Applications

C https://github.com/brunorsreis/oraclepython

Section 1



- 4- Python and OCI (Oracle Cloud Infrastructure):
- 4.2 Oracle Application Container Cloud Service : Deploy a Python Application to Oracle Cloud

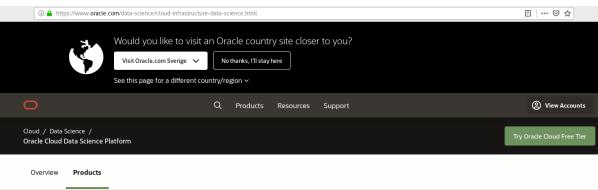
3- Steps:

- Create a Python Application
- Prepare the Application for Deployment
- Deploy Your Application to Oracle Application Container Cloud Service



4- Oracle Cloud Data Science Platform

4.3 - Oracle Cloud Data Science Platform has Python



Oracle Cloud Data Science Platform

The Oracle Cloud Data Science Platform has seven new services, with Oracle Cloud Infrastructure Data Science at the core. Oracle Cloud Infrastructure Data Science is designed to help enterprises build, train, manage, and deploy machine learning models to increase the collaborative success of data science projects. Today most organizations realize only a fraction of the transformational potential of data as a result of access, tools to build, and ability to deploy effective machine learning models.

Explore the Oracle Cloud Data Science Platform

Provides powerful new machine learning

capabilities tightly integrated in Oracle

Oracle Cloud Data Science Platform includes seven new services that deliver a comprehensive, end-to-end experience that accelerates and improves business decisions

Enables users to build, train, and manage new machine learning models on Oracle Cloud using Python and other open-source tools and libraries, including TensorFlow. Keras, and Jupyter.

Oracle Cloud Infrastructure Data Science

Python. Upcoming integration with Oracle Cloud Infrastructure Data Science will enable data scientists to develop models using both open source and scalable indatabase algorithms. Uniquely, bringing algorithms to the data in Oracle Database speeds time to results by reducing data preparation and movement.

in Dir

Autonomous Database, with new support for data.

Oracle Machine Learning

Cloud. Oracle Cloud Infrastructure Data Catalog's built-in business glossary makes it easy to curate and discover the right, trusted Oracle Cloud Infrastructure Data Catalog

Allows users to discover, find, organize,

enrich and trace data assets on Oracle

including just one click to make a cluster highly available and to implement security. Oracle Big Data Service also includes machine learning for Spark, allowing organizations to run Spark machine learning in memory with one product and with minimal data movement

implementation with dramatically simpler

management than other Hadoop offerings,

Offers a full Cloudera Hadoop

Oracle Big Data Service

Enables SQL queries on data in HDFS, Hive, Kafka, NoSQL, and Object Storage. Only Cloud SQL enables any user, application, or analytics tool that can talk to Oracle databases to transparently work with data in

A fully managed big data service that allows users to run Apache Spark applications with no infrastructure to deploy or manage, enabling enterprises to deliver big data and AI applications faster. Unlike competing

Preconfigured, GPU-based environments with common IDEs, notebooks and frameworks that can be up and running ir under 15 minutes, for US\$30 a day.







- Oracle Database Administrator L3 role

Job Description

We are currently looking for a Oracle Database Administrator L3 to integrated to a team dedicated to a digital transformation on client's infrastructure in the context of missions for a client in sea transport business.

Your role :

- · Maintain existing databases by investigating key factors (storage, input/output frequencies, access time etc.) and unusual incidents and problems
- Install patches and upgrade software to enhance database performance and compliance
- Maintain and manage database backup and recovery, data propagation (replication) and performance monitoring/tuning.
- Oracle DBA Monitors database disk space usage and perform RCA of database issues and recommend solutions or workaround.
- · Research, recommend and implement automation methods to proactively manage databases.
- · Perform database design tasks related to the structure of a database including analysis, logical data model review, and physical database design.
- Implement monitoring procedures to maximize availability and performance of the database.
- Participate and/or take a lead role with the infrastructure and database configurations/changes, upgrades etc.
- · Offer based on an indefinite-term employment contract which term is linked to a temporary assignment

Required Expertise

- · Ability to drive projects in international environment
- · Strong drive on technical experts
- Minimum 3 years of experience in administering of Oracle databases and Oracle Goldengate
- Good knowledge of Oracle 11g and Oracle 12c architecture
- · Experience with database optimization and SQL tuning
- Good knowledge of administrative tasks in Oracle 11g and Oracle 12c
- · Good knowledge and experience with following Oracle products and technologies: RAC, ASM, Data Guard, RMAN, Cloud Control
- · Good knowledge of SQL, PL/SQL
- Good knowledge of administration of Linux/UNIX OS in terms of database management

Preferred Expertise

- Experience in ExaData administration
- Experience in administering databases in Oracle Public Cloud
- Programming in BASH, PERL, Python
- Certificates OCM, OCE RAC, OCE Data Guard
- · French speaker required



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- Senior Oracle PL/SQL Risk Developer

Senior Oracle PL/SQL Risk Developer

Intercontinental Exchange **** 105 reviews - Atlanta, GA

Apply On Company Site

Job Purpose

The Senior Oracle PL/SQL Developer will join a team of highly motivated and skilled individuals focused on the development and maintenance of multiple applications supporting Risk Management for ICE global Clearing Houses. We develop and support applications that monitor the trading activities of our clearing members in near real-time to evaluate risk and allow our risk analysts to make decisions on collecting more collateral during the day. We also develop and support applications that calculate stress gains/losses, determine if a member is highly concentrated in an asset, and a complex set of asset price movements over many years to predict potential movements in the future and hold capital from our members to ensure the clearing house is insulated from a potential member going defunct. Lastly, the group is highly engaged in providing and supporting tools and applications for business analytics and data management (Tableau and others). The environment is fast paced, exciting, and demanding.

The successful candidate will have considerable experience in database design, PL/SQL development, a good working knowledge of end-user and server-side data processing techniques, an excellent understanding of SDLC and agile development methodologies. The candidate will have a strong understand of Oracle tuning and performance investigation. A strong plus is a candidate familiar with working with very large datasets, queries, procedures, and management of the same.

Knowledge and Experience

- Minimum 5 years experience in PL/SQL Development
- Excellent communication skills
- Understanding of SDLC process and tools, agile program management concepts and version control

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- Ability to work productively under pressure, and multi-task effectively
- String self-management skills and ability to juggle multiple projects
- Strong interpersonal skills and the ability to work well in a team environment
- Exposure in the financial services technologies, particularly in futures and options

Preferred

- Oracle 11g, 12c and RAC experience
- Tableau and Python experience
- Experience working in Unix/Linux environment
- Oracle Application Express (APEX)
- Experience with JavaScript/jQuery
- Understanding of messaging middleware

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- Oracle DBA role

Title: Oracle DBA

Length: 12+ Months Contract

Location: Tarrytown, NY

Job Description

Key Responsibilities:

Works as part of the team to provide technical support for applications that have database requirements, including requirements gathering, through installation, configuration, testing and other production.

Expertise on database versions 11g,12c,18c including upgrades. Expertise with automating repetitive tasks using shell/python scripts.

Expertise with configuring and maintaining RAC clusters and Dataguard configurations. Experience with SQL and PL/SQL tuning, including in-depth tuning analysis with highly complex and vendor supplied code Experience working in a Linux/Unix environment, with equivalent experience writing, maintaining, and/or debugging operating system shell scripts Experience with database Backups, including RMAN, RMAN in a Data Guard Environment, classic export/import, and Oracle data pump. Experience working with traditional Data Warehousing databases, including Database Design and implementation skills, tuning and troubleshooting, Design, Installation, configuration, patching and upgrading of database server software and related products. Establish and maintain sound recovery and backup policies and procedures Implement and maintain database security (create and maintain users and roles, assign privileges). Ensuring data integrity and availability Establish and execute periodic disaster recovery testing Performance management, and tuning Database management, monitoring, and maintenance Capacity planning, Database licensing, Database security and encryption Evaluation of database features and database related products Provide Database compliance for Sarbanes Oxley (SOX)

Seniority level: Entry level Employment type: Full-time Job function: Information Technology Industries: Information Technology and ServicesComputer SoftwareFinancial Services



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- Oracle Database Administrator

Title: Oracle Database Administrator

What will you be doing in this role?

Installs and upgrades database software on the following server platforms and ensures license compliance: Oracle on RHEL/AIX, SQL Server on Windows, MySQL on RHEL

Performs database migrations from on-prem to AWS RDS and EC2 instances

Manages storage associated with Oracle/SQL Server/MySQL databases and assists system administrators with storage allocation and planning related to the database.

Monitors and optimizes the performance of Oracle instances in a networked environment.

Monitors and optimizes the performance of SQL Server and MySQL instances in a networked environment.

Designs and implements viable database backup, recovery, and high availability strategies and mechanisms. Executes database recovery, restoration, and/or restart as required.

Defines and implements database security, audit, and resource allocation policies and procedures. Defines, creates, and manages user accounts, profiles, privileges, roles, and required audit information.

Monitors and optimizes database instance using database administration tools, SQL scripts, and database utilities. Monitors SGA, resource utilization, and configures database parameters accordingly. Designs and implements the data extraction, data load, and database synchronization routines and functions.

Assists in specification and implementation of tables, views, indexes, integrity, security, and business rules using DDL, DCL, DML, and PL/SQL functions, procedures, and packages. Provides on-call support for enterprise-wide databases and responds to incidents in a timely manner.

Requirements:

Bachelor's Degree in related field or equivalent experience. Requires 3 years in production database administration experience in a Production environment Requires experience in project management, systems and database administration and integration, user relations, and vendor interactions.

Requires solid experience in monitoring, tuning, and administrating Oracle 11g/12c and/or SQL Server 2012/2014/2016 databases

Requires solid experience installing, configuring, and administering Oracle RAC and Oracle ASM.

Requires solid experience with, Oracle SQL*NET, SQL*Loader, SQL Plus and Import/Export utilities in a Windows server or Linux environment.

What else are we looking for?

Experience with patient care-oriented databases and hospital-based financial and administrative database applications preferred.

Experience with MySQL administration a plus

Experience with cloud technologies a plus, especially AWS (RDS/EC2)

Experience with Epic Clarity administration a plus

Requires experience in SQL, DDL, DCL, and DML programming. PowerShell, Python and/or Shell Scripting a plus.

Oracle or SQL Server DBA Certification required

Knowledge of Oracle Enterprise Manager, Oracle Internet Directory and/or WebLogic is preferred.



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- Oracle Database Administrator

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Join a live virtual event on July 8 with Larry Ellison

Wednesday, July 8, 2020 | 12:00 Noon PDT

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QUESTIONS?







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