Important Disclaimer:

"All scripts and data files provided in this workshop were written by the presenter for the purposes of the workshop and are not to be used outside of the workshop. Oracle will not take any responsibility for its use outside of the workshop."

Setup Reference Guide:

In this document, clear steps will be laid out about how to use the resources and materials packaged with the OMC 101 CLE. You should use this document as a reference throughout the session, or after the session, to reference the steps necessary to get started with Oracle Management Cloud. You should take special note to complete the "Prerequisites" section before getting started. There are some critical components that must remain consistent for everything to work smoothly. Once you've made sure you have them completed, you can get started with this guide.

Prerequisites:

There are a few things that you absolutely must have to complete this lab. The first, and most important, is a working, ready to use Oracle Cloud Trial Promotion. You should already have a trial if you've been signed up for this session. If for some reason you don't have one, please go <u>here</u> and setup the promotion before engaging further.

The second most important thing will be a running installation of "Git Bash". Git Bash will act as our interface to access Linux commands that the setup scripts will need to run. You can download Git Bash <u>here</u>, or you can run the executable "Git-Setup.exe" in your OMC CLE Toolkit. Download and run, or just run the executable, then complete the installation by accepting the default prompts.

The third is the ability to connect to a remote machine using 'ssh' and 'scp'. Many corporate firewalls actually block outbound traffic as well, including ssh and scp traffic to other machines. Ssh and scp are going to be critical components of the success of this lab, and if your network won't allow it, you should try to find another network available to you that will. For instance, I use the guest network here when connecting to cloud machines.

In summary:

- 1. A running, ready to use cloud trial promotion account with access to the cloud dashboard (meaning you've demonstrated the ability to login).
- 2. A running installation of "Git Bash" on your machine.
- 3. A network that will allow ssh and scp connections outbound to Oracle Cloud.

Getting Started:

Opening Git Bash and Navigating to the OMC CLE Toolkit base directory:

You should begin by opening Git Bash and navigating to the "/OMC-CLE-Toolkit" folder you should have been given. This folder will contain the resources you need to get complete this lab. Seen below, you can see how I did this.



I keep my OMC CLE Toolkit in my home directory (~, which represents 'c/Users/zdhamilt'). I moved to that directory, then the toolkit folder within it. You can see the resources that are present. Now that we have this ready, lets create a database and an instance of OMC and start collecting some information.

Creating an instance of Oracle Database Cloud Service:

From the My Services Dashboard, select the "Action Menu" at the top-left of the page to pop-out the window. Click on the "Services" dropdown and find and click "Database - Classic".



This will bring you to the Database – Classic service console. On the Database Cloud Service console, select "Create Instance" to create a new instance of Oracle Database Cloud Service. You most likely won't see anything here if it is your first visit, or a "Welcome Page" has come up. If this is the case, find the "Go to Console" button and select that to get to the instance creation page.

nstances	Activity SSH	Access				
					As of May 16, 2018 7:54	15 PM UTC 🔾
ummary	1 Instances	1 OCPUs	7.5 GB Memory	150 _{GB} Storage	1 Public IPs	-
tances Search by instance n	name or tags	୍			In Crea	te Instance
dbsim	Version: 12.1.0 Edition: Enterp	.2 rise Edition	Created On:	May 7, 2018 7:10:12 PM UTC	OCPUs: 1 Memory: 7.5 GB Storage: 150 GB	Ξ

Next, configure the correct options for the database instance you're going to create. This page only *requires* you to provide a database name. For simplicity and consistency throughout this lab, use just "database" for simplicity. **Leave the other options unchanged.** When the options are added, click "Next". (Note: provide a valid email address to get notifications about service maintenance, availability, and more by email about your instance).

<u>C</u> ancel		Instance	e Details Confirm			1	Next >
nstance	e instance information						
		Instance n a letter; ca end with a	ame of your choice, up to 50 charact n contain only letters, numbers and hyphen (-).	ters; must start with hyphens (-); can not			
* Instance Name	database	0	License Type	My organization	tion already owns Oracle		
Description		?		Database so existing data Oracle Datal	itware licenses. Bring my base software license to the base Cloud Service.		
Notification Email	zach.hamilton@oracle.com	0		Subscribe to software lice Database Cl	a new Oracle Database nse and the Oracle oud Service		
Region	No Preference	0		Learn about how E	Bring Your Own License (BY	OL) works.	
Tags		+0	* Software Release	Oracle Database 1	2c Release 1 🔹	0	
			* Software Edition	Enterprise Edition	٣	0	
			* Database Type	Single Instance	٣	0	

Before we add the details for our instance, we need to introduce another critical resource from the OMC CLE Toolkit, the "setup.properties" file. This is contained in the "config" folder along with some other files. Open this file and add the name of the instance after the "DATABASE_NAME" variable and be sure to remove trailing spaces or other whitespace characters. Do this same thing for "SID=" (default as ORCL and field "DB Name") and "PDB_NAME=" (default PDB1 and field "PDB Name"). Below, you can see how I can configured mine.

setup.properties - Notepad	-	×
File Edit Format View Help		
# DATABASE SETUP PROPERTIES		^
PUBLIC_IP=		
DATABASE_NAME=database		
PDB_NAME=		
SID=		
# OMC SETUD DRODERTIES		
TENANT NAME=		
OMC URL=		
REG KEY=		
-		
		~

We will add the rest of the information as we go, so it's important to save this file frequently and keep it handy. At this point you should see the following page.

∢ <u>P</u> revious <u>C</u> ancel			Instance Details Confirm		<u>N</u> ext	>
Instance Details Provide details for this Oracle Da	tabase Cloud Service instanc	e.		E Selection	n Summa	ary
Database Configuration			Backup and Recovery Config	juration		
* DB Name	ORCL	0	* Backup Destination	Both Cloud Storage and Loca 🔻	0	
* PDB Name	PDB1	0	* Cloud Storage Container	https://cle4db.us.storage.oraclec	0	
* Administration Password		0	* Username	Username	0	
* Confirm Password		0	* Password	Password	0	
* Usable Database Storage (GB)	25	0	Create Cloud Storage Container			
Total Data File Storage (GB)	167	0	Total Estimated Monthly Storage (GB)	140	0	
* Compute Shape	OC3 - 1.0 OCPU, 7.5 GB RAM	• Ø	Initialize Data From Backup			
Lice Lick Performance Clarage			* Create Instance from Existing Backup	No	• 0	

On this page, "Instance Details" you'll need to configure just a few options. The first thing we're going to want to do is create the encryption keys we're going to use throughout. To do this, open your Git Bash window and change your directory to the "scripts" directory. We're going to run the script to create the right keys for our own use. It will automatically copy the keys to the clipboard, so we can just paste the public key value into the details page once we're done. The interaction in Git Bash should look like this.

MINGW64:/c/Users/zdhamilt/OMC-CLE-Toolkit/scripts	- 🗆	×	Untitled - Notepad	-		×
<pre>zdhamilt@ZDHAMILT-T4702 MINGW64 ~/OMC-CLE-Toolkit \$ cd scripts zdhamilt@ZDHAMILT-T4702 MINGW64 ~/OMC-CLE-Toolkit/scripts \$./creat.exps.sh Creating encryption keys Generating public/orivide rsa key pair. Your public key has been saved in/.ssh/cloudkey. Your public key has been saved in/.ssh/cloudkey.pub. The key fingerprint is: SHA256:0H34G3BP0013pB3ys14NI17Sy1Rw25eyezXs9SglpA zdhamilt@ZDHAMILT-T4702 The key is randomart image is: +[SA2 2043]+</pre>		~	File Edit Format View Help ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQD1pjznbmtbAFm1yjVNfKU2DmXoVp2RymLnmFRFIyQ WknKM9pV1XCccMjXX0CBaQOFR0WkcZZJ1hJ9dCmOP8cMCaLbzrec1/LY9Vx2I79jAUA1917/ taRthqZctZF1cUCAYYrkClT +i1iU41tMNQ6GwGjQVK18XgP0/NPGUax7zpvU5s/gf0jL0CDpyWJxDfm1NWrLXIgFgNncyI +fpvke1SsfhAjeXCh +0nAv8t047tw4108IyPrStFHMP16h9LrfuRcxJYHnA2BipbGvK4opo7feLe9d2pg4KZvgymr zdhamilt@ZDHAMILT-T4702	GGVa7y /3YT6a JvmqR3	rc8Tey DJ/kt IZ GHz7F	/A3o ocEX +/

The second window, on the right, is there to demonstrate that the contents of the public key have been copied to the clipboard after running the script (as can be seen "Copying key to the clipboard..."). (Note: if the file doesn't copy the first time, from the command like execute "cat ../.ssh/cloudkey.pub | clip" from the scripts directory). Next, we'll paste that into the details page for our new database instance. See below.

	cel	lns	otance Details Con	firm		<u>N</u> ext >
	SSH Public K	ey for VM Access		×		
Instance Details Provide details for this	Provide a value t select the option your private key.	for VM Public Key, or the file containing the VM to generate private/public key pair - if selecting	l Public Key. Alternatively, g that option, you must save		E Selection	on Summary
Database Config	🔘 Key File Na	me: Choose File No file chosen	0	ry Config	uration	
		mFRFZiyGGVa7yc8TeyA3oWknKM9pVIXCc	•	Destination	Both Cloud Storage and Loca 🔻	0
		cMjXX0CBaQOFR0WkcZZJlhJ9dCmOP8cM CaLbzrecl/LY9Vx2l79jAUAI917/3YT6aDJ/kb cEXtaRthgZctZFlcUCAYYrkCIT+jjiU4ltMWn		ge Container	https://cle4db.us.storage.oraclec	0
* Administratic	Key Value:	Q6GwGiQYkl8XgPo/NPGUax7zpvU5s/gfOjL 0CDpyWJxDfmINWrLXIgFgNncyDvmgR3Z+ pykelSsthAieXCh+0nAv8tO47tw4loBlyPrStF	0	* Username	Username	0
* Confin		HMP16h9LrfuRcxJYHnA2BipbGvK4opo7feL e9d2pg4KZvgymhlgR3jGHz7F+/ zdbamit@ZDHAMUT-T4702	•	* Password	Password	0
* Usable Database S		2010101002DHAVILL-14/02	1	ge Container	Ø	
Total Data File S	Create a Ne	ew Key 🔞		Storage (GB)	140	0
* Con			Enter Cancel	1		
* SSH	Public Key	Edit, 👩	milianze Dala F	rom Backup		
Use High Performar	nce Storage 🔲	0	* Create Instance fro	m Existing Backup	No	• @
Advanced Setting						

To open this window, I selected the "Edit" button underneath my mouse point in the above screenshot. The next step is to select "Enter" and then configure the rest of the options. See below for what they should look like when they're done.

∢ <u>P</u> revious <u>C</u> ancel			Inst	tance Details Confirm			Next >
A Selecting 'None' for Backup Des	tination may result in no backup	is for you	r service	e instance.			
Provide details for this Oracle Da	tabase Cloud Service instance	e.				Selection S	ummar
Database Configuration				Backup and Recovery Config	uration		
* DB Name	ORCL	0		* Backup Destination	None	۰ 0	
* PDB Name	PDB1	0		Initialize Data From Backup			
* Administration Password	••••••	0					_
* Confirm Password	•••••	0		[^] Create Instance from Existing Backup	No	•	0
* Usable Database Storage (GB)	25	0					
Total Data File Storage (GB)	167	0					
* Compute Shape	OC3 - 1.0 OCPU, 7.5 GB RAM	• 0					
* SSH Public Key	ssh-rsa AAAAB3NzaC1yc2EAA	Edit	0				
Lise Hinh Performance Storage	0						

When you have those options configured, go ahead and select "Next" where you see my mouse pointer. The next page you see is a summary of all the details we configured. It should look something like the following.

Instance	Details Confirm	Create
e instance.		
This instance is being	created using BYOL terms.	
	Database Configuration	
database	DB Name:	ORCL
	PDB Name:	PDB1
BYOL	Usable Database Storage (GB):	25
Oracle Database Cloud Service	Total Data File Storage (GB):	167
Hourly	Listener Port:	1521
Oracle Database 12c Release 1	Timezone:	(UTC) Coordinated Univers
Enterprise Edition	Character Set:	AL32UTF8 - Unicode Univer
OC3 - 1.0 OCPU, 7.5 GB RAM	National Character Set:	AL16UTF16 - Unicode UTF-1
ssh-rsa AAAAB3NzaC1yc2EAA	Include "Demos" PDB:	No
No	Include GoldenGate:	No
Yes		
	Standby Database Configurat	tion
	e Instance. e Instance is being database BYOL Oracle Database Cloud Service Hourly Oracle Database 12c Release 1 Enterprise Edition OC3 - 1.0 OCPU, 7.5 GB RAM ssh-rsa AAAAB3NzaC1yc2EAA No Yes	e instance This instance is being created using BYOL terms. Database Configuration database BYOL Oracle Database Cloud Service Hourly Oracle Database 12c Release 1 Enterprise Edition Oracle Database 12c Release 1 Enterprise Edition CC3 - 1.0 OCPU, 7.5 GB RAM ssh-rsa AAAAB3NzaC1yc2EAA No Include "Demos" PDB: No Include "Demos" PDB: No Include ColdenGate: Yes

When on this page, select "Create" where you see my mouse pointer. Your instance will begin the provisioning process! We'll come back to the instance when it is ready. For now, you should see something like the following. This is your new instance.

aarah hu inatanaa nama ar taa				Orresta lasta
, , , , , , , , , , , , , , , , , , , ,	-, U			
database Status	Creating instance	Submitted On:	Oct 17, 2018 6:18:58 PM UTC	OCPUs: 1

Once you see this page, you're done with Database Cloud Service for a while. Remember how you got to this console because we will be coming back later in the lab. While the database is provisioning, we'll create an instance of Oracle Management Cloud.

Creating an instance of Oracle Management Cloud:

From the My Services Dashboard, once again, click the "Action Menu" at the top-left of the screen to pop-out the window. After the window is popped out, click the "Services" dropdown. When the services dropdown is open, scroll until you find "Management Cloud" and select it.



Once on the Management Cloud Service console, find and select the "Create Instance" button and select it.

C Oracle Management Cloud Service	Welcome! 들
Instances Activity	
	As of May 16, 2018 8:31:44 PM UTC 📿
Summary Total Services	-
Instances Search by instance name or tags Omc1nstance Created On: Mar 7, 2018 7:11:35 EMUTC	Create Instance
Instance Create and Delete History	

On the Create New Instance page, name the instance you are creating. I named my instance "omc2nstance". You can name this instance anything you would like. Once you have named your instance, click "Next".

Cancel		•—••	Next
Guilder		Instance Confirm	TO A
nstance	information		
Provide basic service instance	information		
Dotails			
Details			
* Instance Name	omc2nstance		
	omoznotanoo		
Description	Management Cloud Instance		
Description	Management Cloud Instance		
Description Notification Email	Management Cloud Instance emailaddress@gmail.com		
Description Notification Email * Region	Management Cloud Instance emailaddress@gmail.com		

Next you should see the summary page for the instance you are about to create. Review the details and then click "Create".

Previous Cancel	Instance Confirm	Create >
onfirm your responses and cr	and this Oscala Management Claud Cardina Instance	
Service	eate this Oracle Management Cloud Service Instance	
Service Instance Name:	omc2nstance	
Service Instance Name: Description:	omc2nstance Management Cloud Instance	
Service Instance Name: Description: Notification Email:	omc2nstance Management Cloud Instance emailaddress@gmail.com	
Service Instance Name: Description: Notification Email: Software Release:	omc2nstance Management Cloud Instance emailaddress@gmail.com OMCS Release 3.0	
Service Instance Name: Description: Notification Email: Software Release: Metering Frequency:	omc2nstance Management Cloud Instance emailaddress@gmail.com OMCS Release 3.0 HOURLY	

You should be brought back to the Management Cloud Service console page and see the new instance you just created being provisioned.

C Oracle Management Cloud Service	Welcome! 들
Instances Activity	
	As of May 16, 2018 8:39:03 PM UTC 🔾
Summary 2 Total Services	-
Instances Search by instance name or tags	<u>Oreate Instance</u>
omc2nstance Status: Creating service Submitted On: May 16, 2018 8:38:57 PM UTC	Ξ
Created On: May 7, 2018 7:11:38 PM UTC	I
▶ Instance Create and Delete History	

We're going to need the instance to be live before we can use it. You're ready to move to the next step.

Gathering the relevant information from our Oracle Management Cloud instance:

Once the instance is available, it's time to set some settings, extract some values, and download some software. First things first, let's grab the TENANT_NAME, OMC_URL, and REG_KEY and add them to "setup.properties". From the landing page, use the "Action Menu" at the top left to get to the download page for the agent software. You'll need to go to "Administration > Agents" then select the "Download" tab, then select the dropdowns "Cloud Agent" and "Linux (64-bit)". We're going to need to down this agent file. See below.

< Administration							
Alert Rules	Oracle Management Cloud Agents						
Notification Channels	Oracle Management Cloud Agents						
Agents	Gateways Data Collectors Cloud Agents APM Agents Registration Keys Download						
Discovery >	Select the agent type to download and the operating system that the agent will be installed on.						
Entity Configuration	Registration Keys are required to install agent.						
Credential Store	* Agent Type Cloud Agent 🔻 🚯						
APM Admin	Operating System Linux (64-bit) 💌						
Monitoring Admin							
Log Admin >	Download Version Size SHA1 Checksum						
Security Admin	Cloud Agent - Lingux (64-bit) 1.34.0 446.24 MB 00171485bdd4d3ce747f4859643df72f3457e250						
Compliance Admin	Instructions to install the agent						
IT Analytics Admin	Specify following mandatory parameter values during agent installation.						
	TENANT_NAME 7efc6040a7164d09b0ab1690c86e7e5e						
	OMC_URL https://management-oracleuitest.uscom-east-1.oraclecloud.com/						

Select the "Cloud Agent – Linux (64-bit)" hyperlink and begin the download. This ZIP is 500GB, so it will take a minute before we can take the next step with it. Once it is downloaded, page sure you put the unaltered ZIP file in the "download_agent_here" folder. **DO NOT unzip the ZIP. All of that will be done for you.**

Take the values for TENANT_NAME and OMC_URL that are at the bottom of the page and add them to the "setup.properties" file the same way we did with the INSTANCE_NAME, PDB_NAME, and SID.

Next, create the registration key. The registration key needs to be created on the previous tab before "Download" on the same page. Once on the "Registration Keys" tab, name the key whatever you desire and create it. Once it's created, copy the key value into "setup.properties" as REG_KEY.

< Administration	
Alert Rules Notification Channels	Oracle Management Cloud Agents
Agents	Gateways Data Collectors Cloud Agents APM Agents Registration Keys
Discovery >	* Name Registration Limit 10000 V A Create New Key
Entity Configuration	Namer mu keur Statuer Valid
Credential Store	Created Date: 10/4/18 10:18 AM Registration Limit: 10000
APM Admin >	Key Value: Rwi7ol3/GhpMińvEvDtu8rigz Current Usage: Data Collectors 0, Gateways 0, Agents 1, APM Agents 0, Available 9996
Monitoring Admin	
Log Admin >	
Security Admin	
Compliance Admin	
IT Analytics Admin	

Now we have all the vital property values that we'll need from OMC. Make sure that you've recorded them in 'setup.properties'. Your properties file should look something like this up until now.



Next step will be changing some of the licensing settings in OMC so when we add agents and entities they'll be assigned licenses automatically.

To do this, we're going to navigate to "Administration > Entity Configuration" then on the corresponding page, select "Licensing" to get to the page. You should change all the license settings to look like what I have below.

< Administration	EORACLE	MANAGEMENT CLOUD			colin.pereira@oracle.com 🔻
	Entities Configuration	Licensing	License Auto-Assignment Enterprise	Log Collection ENABLED	SMA Enrichment ENABLED
	Tags Groups Global Properties	As of Mon. Oct 8, 2018, 1208/26 PM	Config & Compliance		:
Entity Configuration	Configure Entities Maintenance Window	O out of 4	Standard Edition	Enterprise Edition	Configuration & Compliance
Credential Store APM Admin	> Delete Entities	Select Entities (0)			Save Reve
	>				
	>				
	> >				

You will not have any entities yet, so the screenshot will differ slightly. Nonetheless, you should still change the Auto-Assignment to Enterprise Edition with Config & Compliance, and then enable Log Collection and SMA Enrichment. Once this is complete, the entities and agents we add later will be assigned their license roles automatically.

Getting the Database VM IP Address:

We need to access the underlying VM hosting the database for things to work. Once the database instance is provisioned and ready, select the instance name to get to the details page. At the bottom of the page, you should see the "Public IP". You should take this value and paste it into "setup.properties" and save the file. Notice the instance details page below.

racle Database Cloud	Service / cloudDB				▶ ■	C 🗞
Overview	Instance O	verview			As of May 21, 2018 7:05:41	1 PM UTC 🕞
1 Node		1 Nodes	1 OCPUs	7.5 GB Memory	150 GB Storage	-
		Status: Connect String:	Ready cloudDB:1521/PDB1.6017016	cloudDB:1521/PDB1.6017	01664.oraclecloud.internal Enterprise Edition	
Administration	Bac	PDB Name:	None PDB1	Container Name:	ORCL	
Patches available		Character Set: SQL *Net Port:	AL32UTF8 - Unicode Univer 1521	National Character Set: Timezone:	AL16UTF16 - Unicode UTF-1 Coordinated Universal Time	
Snapshots available	▲ Resources	Show less				
		Host Name: Public IP: SID:	cloudDB 129.150.64.50 ORCL		OCPUs: 1 Memory: 7.5 GB Storage: 150 GB	Ξ

You should take the public IP address and add it to your 'setup.properties' file like can be seen below.

setup.properties - Notepad	-		×
File Edit Format View Help			
# DATABASE SETUP PROPERTIES			^
DATABASE_NAME=			
PDB_NAME=PDB1			
SID=ORCL			
# OMC SETUP PROPERTIES			-
TENANT_NAME=0b81fadcd4104f15acca9ceae9a93dce			
<pre>OMC_URL=nttps://management-cle4int.uscom-east-1.oracl REG_KEY=Rw63Bzngtt13GkvTmJsgYCfiC8</pre>	ectoud	.com/	
1			
>			r
			~

At this point, if the database is up and running and the OMC instance is up and running you're probably ready to engage the setup script.

Quick Check before you move on:

Before moving on, we need to make absolutely certain of a few things in order for everything to run smoothly. Make sure you use this checklist:

- Are all values set in "setup.properties" with no trailing whitespace characters and no spaces before or after the "=" for each value?
- Is the cloudagent_*.zip folder in the "download_agent_here" directory?
- Is the database VM running?

If all these things check out, you can start the setup script as I will demonstrate. For added value, check out my "setup.properties" file example to make sure yours looks the same before starting. Here's mine.

setup.properties - Notepad	_	×
File Edit Format View Help		t
# DATABASE SETUP PROPERTIES PUBLIC_IP=129.150.77.150		^
DATABASE_NAME=cloudDB		
SID=ORCL		
# OMC SETUP PROPERTIES		
TENANT_NAME=7efc6040a7164d09b0ab1690c86e7e5e		
REG_KEY=Rwj7ol3jGhpMifvFLvDtu8rigz		
T		
		 ~

If that matches yours, we can proceed to the next and most delicate step of the entire process—the setup.sh script.

Starting the setup.sh script to setup your database virtual machine and cloud agent software:

This next step is fragile. What I mean by that is that I am no Linux guru, and there is a significant amount of automation that I packed into this one script. If everything works as intended, the script will:

- 1. Extract your IP Address from the setup.properties file.
- 2. Connect to opc user and give access to '/var/log/*' to oracle user.
- 3. SCP the 'config' directory to the virtual host.
- 4. SCP the cloudagent_*.zip file to the virtual host.
- 5. Execute the 'db_setup.sh' script on the virtual host.
- 6. Unzip the cloudagent_*.zip into the 'temp' directory.
- 7. Extract the OMC properties from 'config/setup.properties'.
- 8. Write the OMC properties into the variable declarations in 'temp/agent.rsp'.
- 9. Run the cloud agent installation.
- 10. Connect to the database as the sysdba and unlock the DBSNMP user.
- 11. Extract the instance_name from 'config/setup.properties'.
- 12. Extract the service_name and host_name values from 'lsnrctl status'.
- 13. Write the instance datils and host details to the entity declaration JSON files.
- 14. Submit the database declaration and credential JSON's to './omcli' for processing.
- 15. Check the status of the entity registration with OMC.

Since this is absolutely a lot, it helps to be meticulous, as we will be.

To get everything started, you need to navigate to the '/scripts' directory in the OMC CLE Toolkit using Git Bash, then execute the command "./setup.sh". Leave Git Bash open and just wait for everything to take place. It will take multiple minutes as things like sending a 500GB file over SCP takes a little time. Once the files have been sent over and the agent has been installed, we need to enable log collection from it, and then associate some entity log sources to start seeing data. To do that, you should first navigate back to the agent's admin page (Home > Administration > Agents from the left have menu). When you're there, you should select the "Cloud Agents" tab, and you'll see your newly registered agent. Select the new agent and look down the page and enable the switch for log collection. See the screenshot below for reference that you're in the right place.

Agents	Gateways Data Collectors Cloud Agents APM Agents Registration Keys	Download					
Discovery >	Search <i>Filter agents</i> Q ? No agents need to be upgraded. Upgrade						⊥ Alerts
Entity Configuration	Status Agent Name		Version	OS/Platform	Last Check In		Actions
Credential Store	database.compute-603583932.oraclecloud.internal:4459		1.34.0	Linux (x86_64)	2 minutes		Ξ
APM Admin >	Show 25 Page 1 of 1 (1 of 1 items) 1					1 ite	em selected
Monitoring Admin							
Log Admin >	database.compute-603583932.oraclecloud.internal:4459						
Security Admin	No agents associated	Agent Configuration Details					
Compliance Admin		Host database.compute- 603583932.oraclecloud.internal					
IT Analytics Admin	Agent Updates	Registration Key RZ5_2NNZn_h2fiTimcNJXJJsKtA Platform Linux (x86 64)					
	 Your request to register the agent was completed successfully 18 minutes ago. 	Install Date 10/21/18 7:51 PM					
		Agent Deployment Details					
		Last Check In Time 2 minutes (10/21/18 8:06 PM) Version 1.34.0 Instance Directory /home/cracle/cloudagent/agent_inst					
		g	ne, erade, eradugent, agent,				
		Agent Management					
		Log Collection	Enabled				
			-				

Once log collection is enabled for the agent, you'll need to associate entities. To do so, select "Log Admin" from the lefthand menu we can see in the screenshot above. Next, select "Entities". You should see the cloud agent entity already set up, but not the Linux Host, Oracle Database Instance, or Oracle Pluggable Database. You should select "New Association", search for either "Host (Linux)", "Oracle Database Instance", or "Oracle Pluggable Database" in the Entity Type box. Then, select Add Entity. You should have the respective registered entity show up. Select it, then click continue, then select all the log sources, then click continue, then click Associate Entities. Do this for the Linux Host, the Oracle DB, and the Oracle PDB. The final result should look like what I have below.

< Log Admin 🕆 🗮 🚍 🗖				zach.hamilton@oracle.com 💌				
Alert Rules Entities								
Collection Warnings Lists the entities configured for log collection. To configure additional entities, click on New Association.								
Entities + New	Association	Collection Status All 💌 Entity Type	All	▼ Search Entity Name 🤇 🏦				
Fields Labels	database.compute-603583932.oraclecloud.internal Host (Linux)	database.compute-603583932.oradecloud.internal On Host	40 Associated Log Sources					
Log Parsers	database.compute-603583932.oraclecloud.internal-4459 Cloud Agent	database.compute-603583932.oraclecloud.internal On Host	9 Associated Log Sources	۸				
Lookups Saved Searches	database/ORCL Oracle Database Instance	database.compute-603583932.oraclecloud.internal On Host	10 Associated Log Sources	A				
Storage Uploads	database/PDB1 Oracle Pluggable Database	database.compute-603583932.oraclecloud.internal On Host	2 Associated Log Sources	A				
Page 1 c	of 1 (1-4 of 4 items) < < [1] > >							

Now you should be set up and prepared to run the simulation.

Running the simulation scripts:

Running the simulation is easy. Just execute "./simulator_here.sh" from the 'scripts' directory using Git Bash. The simulation will run on the Linux VM, not your machine, and it will run for a significant amount of time to populate information and log files. In the session, we'll examine the results from a prior run through of the simulation that I've already done.