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| --- |
| **Create a new document (do not use this one) using the naming convention HW11-MUid.docx (example: HW11-johnsok9.docx).**  **Objective**: The objective of this exercise is to:   1. Configure web server in OpenStack cloud 2. Create and understand Rest Servers   **Submit**: screenshots, your html file and a link to your web page  You **may** discuss the concepts with your fellow students  You **may** **not** show or share code with your fellow students  You **may** **not** show or share code with internet sources  You **may** discuss this with your instructor or TA. |

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| **Name:** | **Andrew Boothe** |

# Part #1: Configure Keypair (Slides 2-8)

*Estimated time: 5 minutes*

**Exercise:**

Create new rsa key on ceclinux (if required) and assign it to OpenStack configuration.

**Note: This the key must be created on ceclinux and them imported into OpenStack.**

# Part #2: Launch Instance (Slides 9-19)

*Estimated time: 10-15 minutes*

**Exercise:**

* + Create the instance
  + Configure it as Ubuntu 20.04LTS (using instructions)
  + Configure the keypair access (allows ssh as user ubuntu)

# Part #3: Configure Operating System (Slides 20-25)

*Estimated time: 15-25 minutes*

**Exercise:**

* + Update the system software
  + Install database manager
  + Configure database manager
  + Set web password

# Part #4: Load Rest Server and Database

*Estimated time: 15-25 minutes*

**Exercise:**

* Get archive file   
  + cd /tmp
  + wget <http://ceclnx01.cec.miamioh.edu/~johnsok9/cse383/ajax/hw11.tgz>
    - note: use this exact address (my uniqueid)
  + cd /var/www/html
  + sudo tar xvzf /tmp/hw11.tgz
  + move and rename the database file (ex1) to your database directory
    - sudo mv ex1 /home/ubuntu/cse383/database/cse383.db
  + **set the permissions to read/write for all on the database file** (666)
    - chmod 666 /home/ubuntu/cse383/database/cse383.db
    - verify by: ls -l /home/ubuntu/cse383/database/cse383.db
* Test the database using your web admin program
  + http://*IP/phpliteadmin.php*
  + **Verify** that the database is accessible
    - **If errors – review the above instructions**
  + Paste the "**Query used to create this table"**from the admin program into your canvas assignment (**Find those exact words in the web admin**)
* Test the rest application
  + *final.php (rest server which adds data to database)*
  + *from web browser:*

*http://IP/final.php?method=setTemp&location=45011&sensor=1&value=49.8*

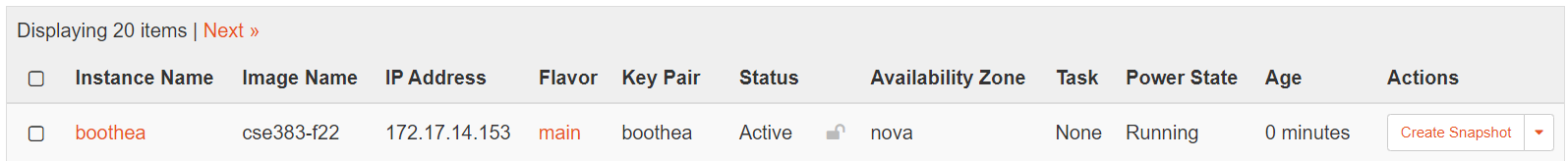
*paste a screen grab of the json message showing status=0*

Text

Description automatically generated with medium confidence

# SUBMIT:

* Screenshot
  + Slide 19 (show your instance with IP)
  + Slide 21 (showing login from ceclinux)
  + Web server test (show hello page)
  + Database Admin test (show working phpadminlite)
* Link
  + Link to web site (with updated web page)
  + Link to Database Admin



Text

Description automatically generated

Graphical user interface, application, Word

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated