



DevOps Lab

## INFRASTRUCTURE AS CODE

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Packer

Home task

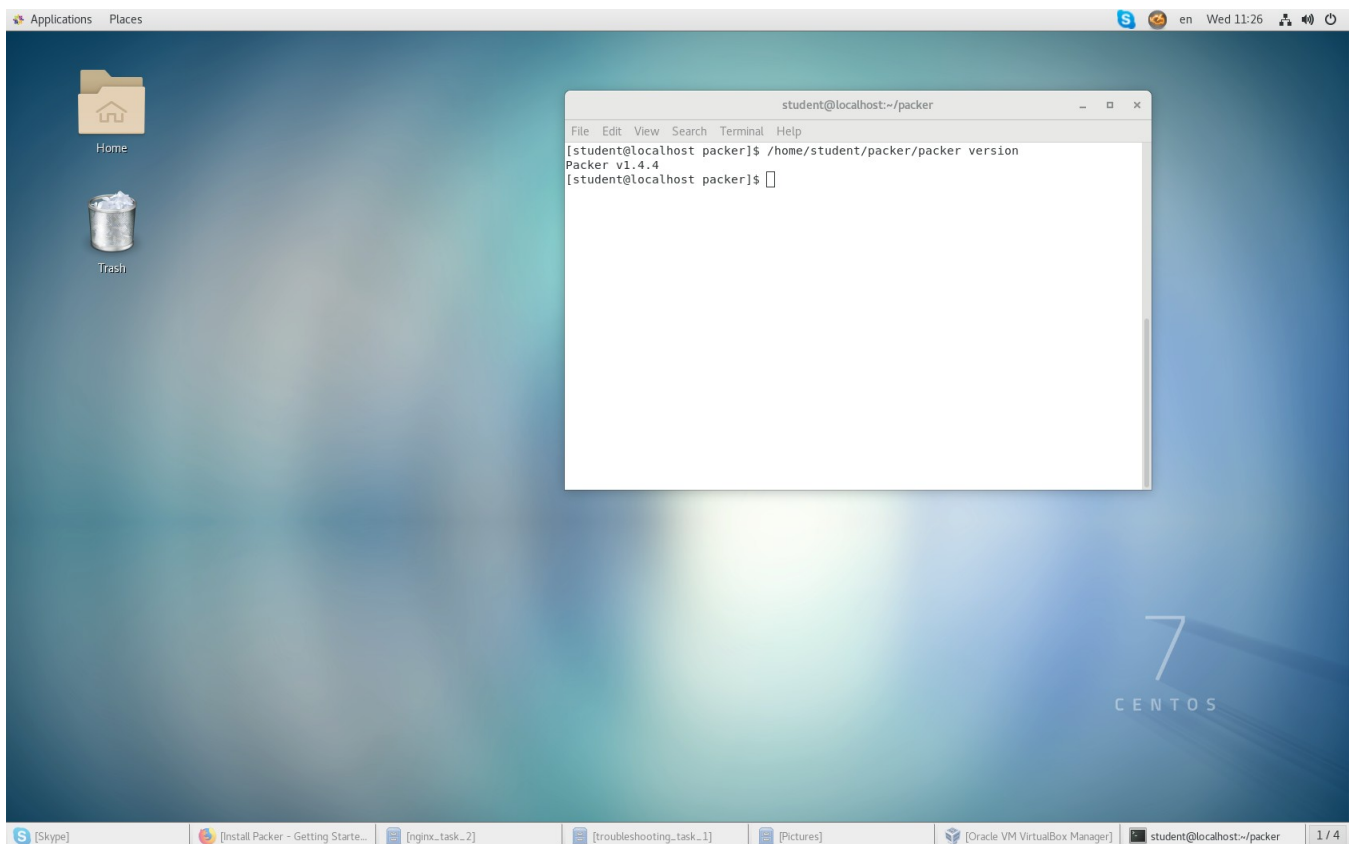
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CONFIDENTIAL | Effective Date: 03-Oct-19

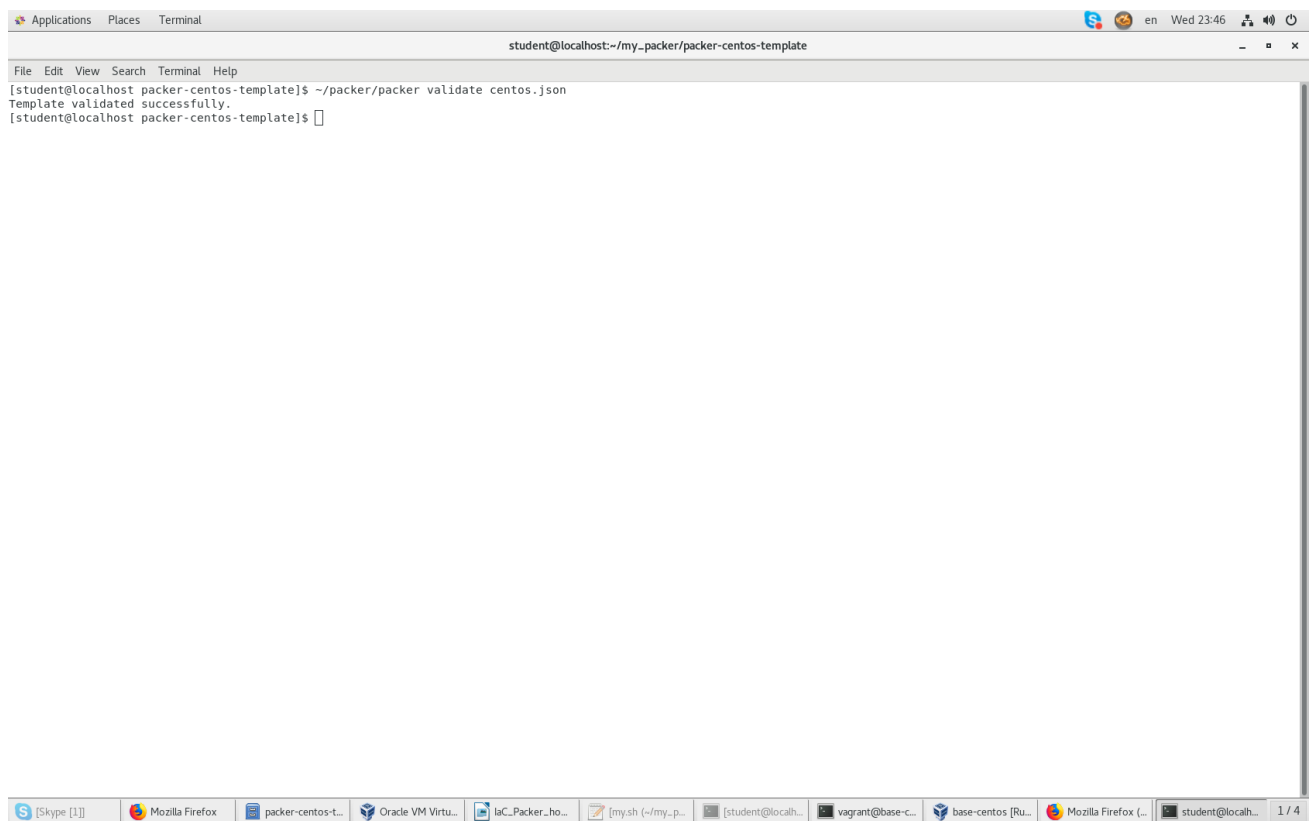
## TASKS

1. Install Packer using cmd utilities (such as wget/curl/unzip/etc)



2. Develop Packer JSON Template (and necessary scripts/configs) for creating Custom CentOS (7.7.1908 from official ISO):
  - [http://ftp.byfly.by/pub/CentOS/7.7.1908/isos/x86\\_64/CentOS-7-x86\\_64-Minimal-1908.iso](http://ftp.byfly.by/pub/CentOS/7.7.1908/isos/x86_64/CentOS-7-x86_64-Minimal-1908.iso)

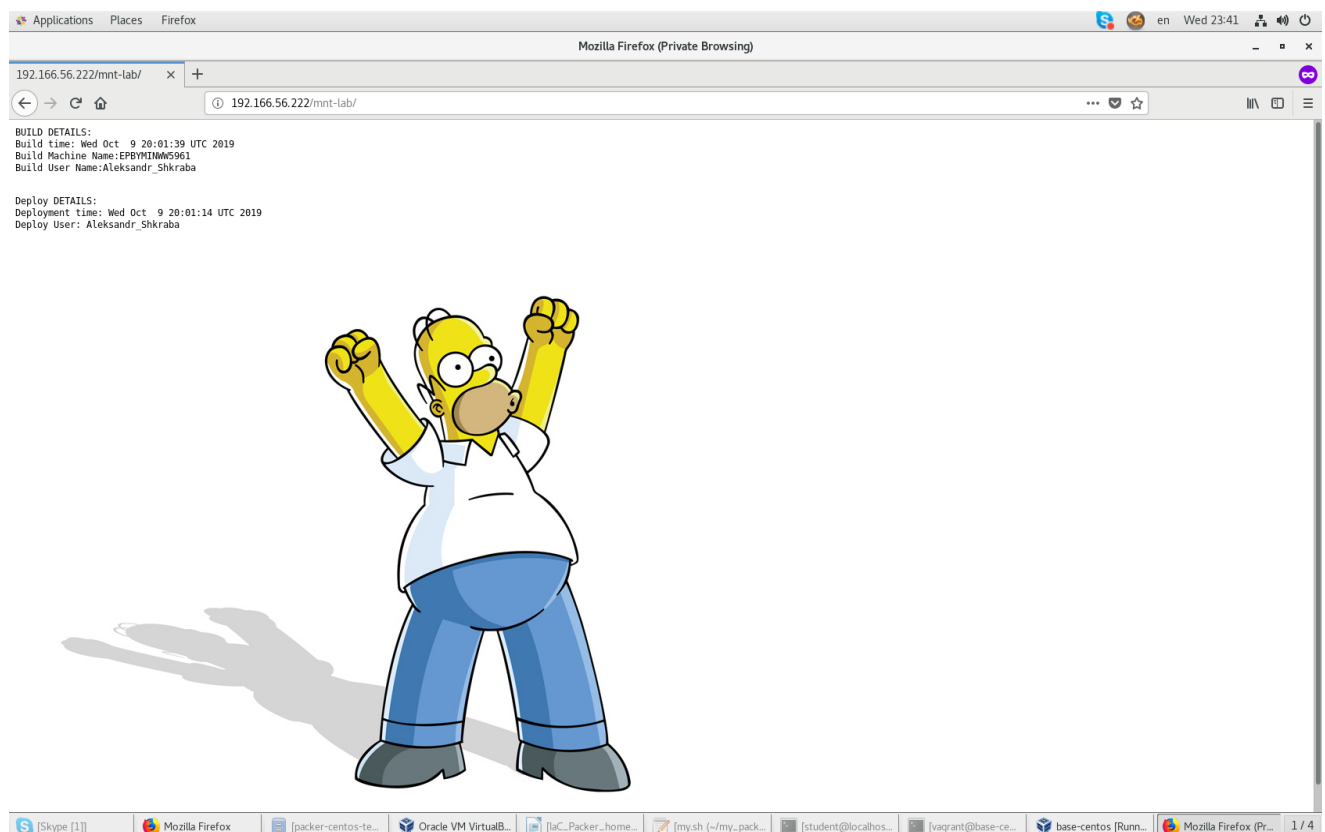
### 3. Validate Template with the command `packer validate`



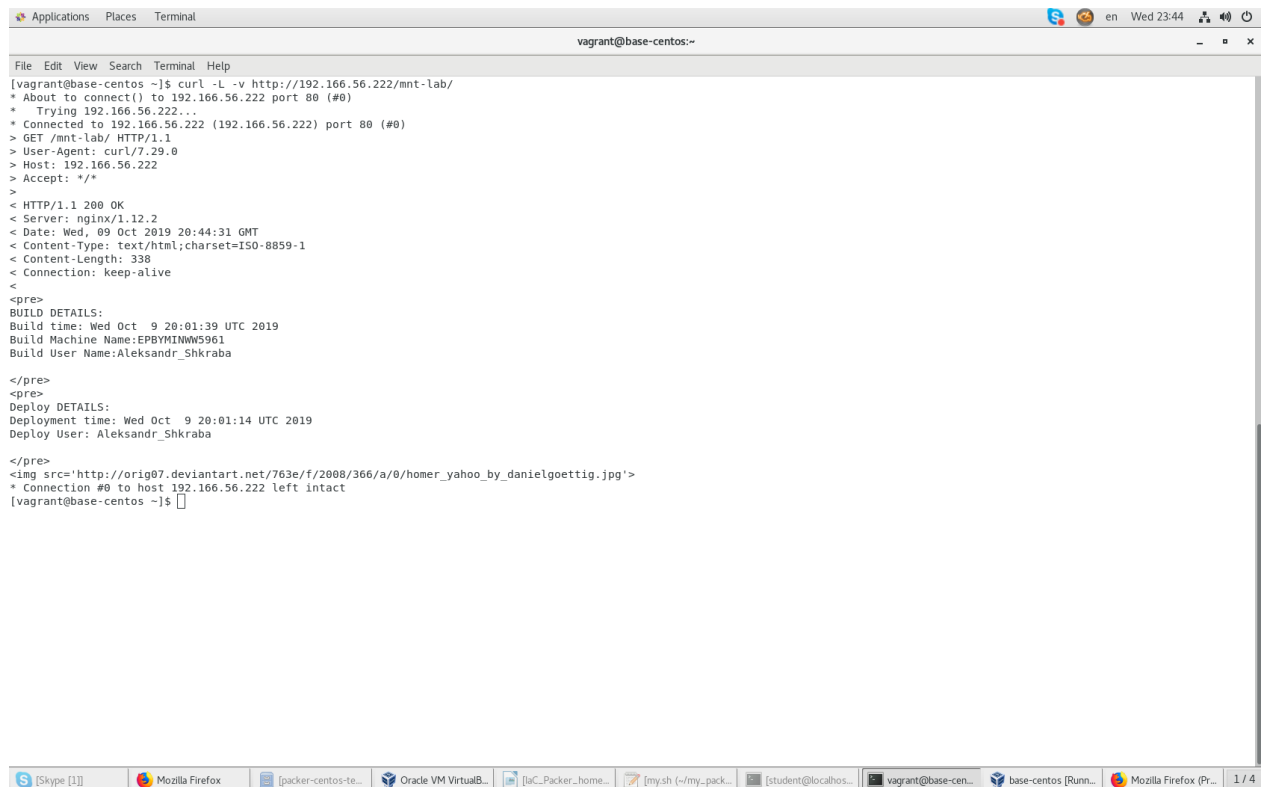
A terminal window titled "student@localhost:~/my\_packer/packer-centos-template" shows the execution of the command `~/packer/packer validate centos.json`. The output indicates that the template was validated successfully. The terminal interface includes a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The taskbar at the bottom shows various open applications including Skype, Mozilla Firefox, and several virtual machine instances.

```
student@localhost:~/my_packer/packer-centos-template
[student@localhost packer-centos-template]$ ~/packer/packer validate centos.json
Template validated successfully.
[student@localhost packer-centos-template]$
```

### 4. Create custom scripts:



5. Create Vagrantfile to spin up a VM from recently baked image.
6. Validate services in VM with curl commands



```

vagrant@base-centos:~$ curl -L -v http://192.166.56.222/mt-lab/
* About to connect() to 192.166.56.222 port 80 (#0)
* Trying 192.166.56.222...
* Connected to 192.166.56.222 (192.166.56.222) port 80 (#0)
> GET /mt-lab/ HTTP/1.1
> User-Agent: curl/7.29.0
> Host: 192.166.56.222
> Accept: */*
>
< HTTP/1.1 200 OK
< Server: nginx/1.12.2
< Date: Wed, 09 Oct 2019 20:44:31 GMT
< Content-Type: text/html; charset=ISO-8859-1
< Content-Length: 338
< Connection: keep-alive
<
</pre>


```

BUILD DETAILS:
Build time: Wed Oct 9 20:01:39 UTC 2019
Build Machine Name: EPBYMINW5961
Build User Name: Aleksandr_Shkraba
</pre>


```

Deploy DETAILS:
Deployment time: Wed Oct 9 20:01:14 UTC 2019
Deploy User: Aleksandr_Shkraba
</pre>
<img src='http://orig07.deviantart.net/763e/f/2008/366/a/0/homer_yahoo_by_danielgoettig.jpg'>
* Connection #0 to host 192.166.56.222 left intact
vagrant@base-centos:~$

```


```


```

## REPORT

EMAIL Subject: **[DEVOPSLAB] PACKER FirstName\_LastName**

EMAIL TO: [Siarhei\\_Beliakou@epam.com](mailto:Siarhei_Beliakou@epam.com)

Attachments:

- Report: **packer-fisrtname\_lastname.pdf** (example: packer-siarhei\_beliakou.pdf)
- Packer config file: packer.json
- Vagrant config file: Vagrantfile