

# Max Huecksteadt

## CS 530

### Week 10 Lab Notebook

```
mhueck2@cloudshell:~/networking101 (cloud-huecksteadt-mhueck2) $ gcloud deployment-manager deployments create networking101 --config networking-lab.yaml
The fingerprint of the deployment is b'0ANoG97gaeBaQx8C05ttAA=='
Waiting for create [operation-1670039414710-5eee45a131fa5-0d7fb673-406681d7]...done.
Create operation operation-1670039414710-5eee45a131fa5-0d7fb673-406681d7 completed successfully.
NAME: asia-east1
TYPE: compute.v1.subnetwork
STATE: COMPLETED
ERRORS: []
INTENT:

NAME: asia1-vm
TYPE: compute.v1.instance
STATE: COMPLETED
ERRORS: []
INTENT:

NAME: e1-vm
TYPE: compute.v1.instance
STATE: COMPLETED
ERRORS: []
INTENT:

NAME: eul-vm
TYPE: compute.v1.instance
STATE: COMPLETED
ERRORS: []
INTENT:

NAME: europe-west1
TYPE: compute.v1.subnetwork
STATE: COMPLETED
ERRORS: []
INTENT:

NAME: networking101
TYPE: compute.v1.network
STATE: COMPLETED
ERRORS: []
INTENT:

NAME: us-east5
TYPE: compute.v1.subnetwork
STATE: COMPLETED
ERRORS: []
INTENT:

NAME: us-west-s1
TYPE: compute.v1.subnetwork
STATE: COMPLETED
ERRORS: []
```

- 1.
2. It appears that 5 subnets, 5 vm instances, and one network has been created.

Filter Enter property name or value ? III				
<input type="checkbox"/>	Name ↑	Region	Stack Type	Internal IP ranges
<input type="checkbox"/>	<a href="#">asia-east1</a>	asia-east1	IPv4	10.40.0.0/16
<input type="checkbox"/>	<a href="#">europe-west1</a>	europe-west1	IPv4	10.30.0.0/16
<input type="checkbox"/>	<a href="#">us-east5</a>	us-east5	IPv4	10.20.0.0/16
<input type="checkbox"/>	<a href="#">us-west-s1</a>	us-west1	IPv4	10.10.0.0/16
<input type="checkbox"/>	<a href="#">us-west-s2</a>	us-west1	IPv4	10.11.0.0/16

3. Reserved proxv-only subnets for load balancing

Filter Enter property name or value

<input type="checkbox"/>	Status	Name ↑	Zone	Internal IP	External IP	Network
<input type="checkbox"/>	✓	<a href="#">asia1-vm</a>	asia-east1-b	10.40.0.2 ( <a href="#">nic0</a> )	34.81.144.13 ( <a href="#">nic0</a> )	<a href="#">networking101</a>
<input type="checkbox"/>	✓	<a href="#">e1-vm</a>	us-east5-a	10.20.0.2 ( <a href="#">nic0</a> )	34.162.223.95 ( <a href="#">nic0</a> )	<a href="#">networking101</a>
<input type="checkbox"/>	✓	<a href="#">eu1-vm</a>	europa-west1-d	10.30.0.2 ( <a href="#">nic0</a> )	146.148.14.238 ( <a href="#">nic0</a> )	<a href="#">networking101</a>
<input type="checkbox"/>	✓	<a href="#">w1-vm</a>	us-west1-b	10.10.0.2 ( <a href="#">nic0</a> )	35.233.219.74 ( <a href="#">nic0</a> )	<a href="#">networking101</a>
<input type="checkbox"/>	✓	<a href="#">w2-vm</a>	us-west1-b	10.11.0.100 ( <a href="#">nic0</a> )	34.82.180.153 ( <a href="#">nic0</a> )	<a href="#">networking101</a>

4.

5. I couldn't successfully SSH to a VM

Filter Enter property name or value

<input type="checkbox"/>	Name	Enforcement order ↑
<input type="checkbox"/>	▼ <a href="#">vpc-firewall-rules</a>	1
<input type="checkbox"/>	<a href="#">networking-firewall-allow-ssh</a>	
<input type="checkbox"/>	<a href="#">networking-firewall-allow-icmp</a>	
<input type="checkbox"/>	<a href="#">networking-firewall-allow-internal</a>	

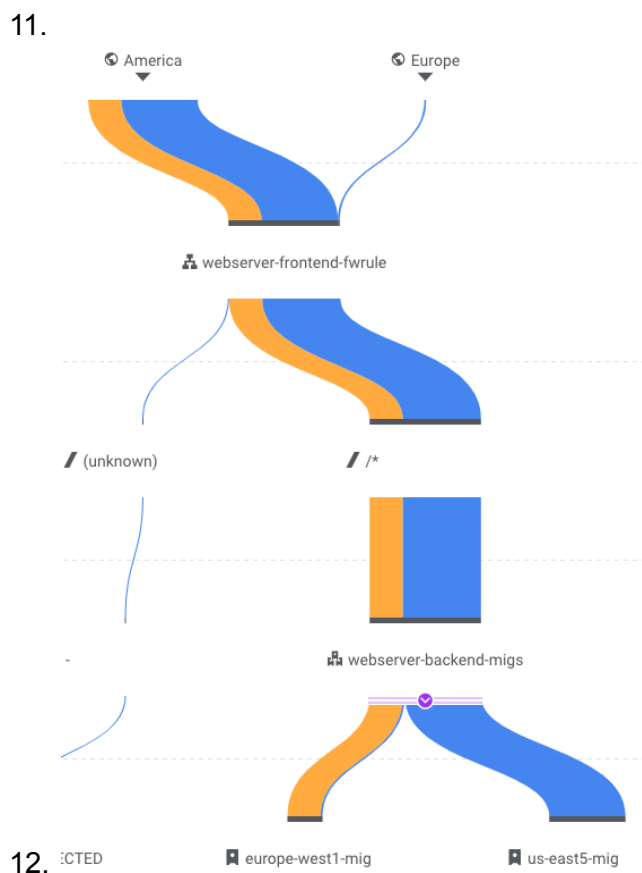
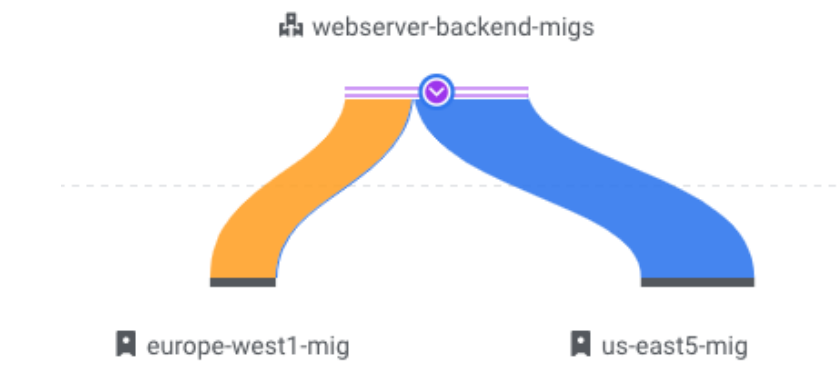
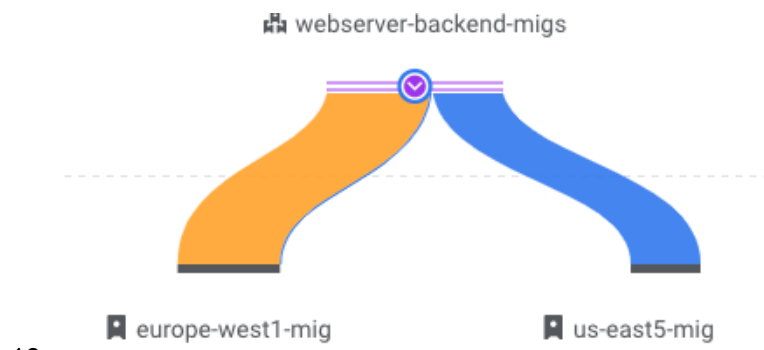
6.

7.

Location pair	Ideal latency	Measured latency
us-west1 us-east5	~45 ms	~49.5ms
us-west1 europa-west1	~93 ms	134ms
us-west1 asia-east1	~114 ms	~120ms
us-east5 europa-west1	~76 ms	96.7ms
us-east5 asia-east1	~141 ms	~165ms
europa-west1 asia-east1	~110 ms	~250ms

8. No, I have europa-west 1b, 1c and 1d, and us-east 5c

9. The server handles requests in us-east5c



12. CTED