

3. Select a node on the Explorer Cluster and report the following information about that node:
 - a. The CPU model
 - b. The cache memory hierarchy, including the size and associativity.
 - c. The main memory size of this node.
 - d. The version of Linux installed

Answer:

3 (a): Intel ® Xeon ® Gold 5318Y CPU @ 2.10GHz

3 (b):

Cache memory hierarchy:

```
Cache Hierarchy for CPU0:
Level 1 Data cache
Level 1 Instruction cache
Level 2 Unified cache
Level 3 Unified cache
```

Size:

```
L1d cache size:
48K
L1i cache size:
32K
L2 cache size:
1280K
L3 cache size:
36864K
```

Associativity:

```
L1d cache associativity:
12
L1i cache associativity:
8
L2 cache associativity:
20
L3 cache associativity:
12
```

3 (c):

	total	used	free	shared	buff/cache	available
Mem:	250Gi	11Gi	28Gi	728Mi	212Gi	238Gi
Swap:	19Gi	2.0Mi	19Gi			

MemTotal: 263008228 kB

3 (d): Linux Version: Rocky Linux 9.3 (Blue Onyx)