

Assignment 8

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Q1. Check the resources available in the "compute" partition before submitting your job.

```
scontrol show partition=compute
```

Q2. Start an interactive job on the "short" partition that runs for 30 minutes and requires 2 CPUs and 4 GB of memory.

```
salloc --partition=short --time=30 --cpus-per-task=2 --mem=4GB
```

Q3. See which nodes in the "compute" partition are available (idle and not allocated).

```
scontrol show nodes | grep -A 5 "PartitionName=compute"
```

Q4. Check the resource usage (memory, CPU) of all nodes in the "compute" partition.

```
sinfo --partition=compute --long
```

Q5. Monitor the progress of a specific job, say job ID 12345.

```
scontrol show job 12345
```