

NSF/IUCRC CAC PROJECT

INTEGRATED VISUALIZING, MONITORING, AND MANAGING HPC SYSTEMS

Jie Li

Doctoral Student, TTU

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Advisors:

Mr. Jon Hass, SW Architect, Dell Inc.

Dr. Alan Sill, Managing Director, HPCC, TTU

Dr. Yong Chen, Associate Professor, CS Dept, TTU

Dr. Tommy Dang, Assistant Professor, CS Dept, TTU

Slurm Rest API

- A tool that runs inside of the Slurm perimeter that will translate JSON/YAML requests into Slurm RPC requests
- Use OpenAPI Specification to describe the API



Daemon Mode

- Listen on given set of IP/PORTs for user connections

Inet Mode


- Single user connected via STDIN and STDOUT
- Script send commands via PIPE directly

```
echo -e "GET /openapi/v3 HTTP/1.1\r\nAccept: */*\r\n" | slurmrestd
```

```
echo -e "GET /slurm/v0.0.35/nodes HTTP/1.1\r\nAccept: */*\r\n" | slurmrestd
```

```
echo -e "GET /slurm/v0.0.35/partitions HTTP/1.1\r\nAccept: */*\r\n" |  
slurmrestd
```

```
echo -e "GET /slurm/v0.0.35/jobs HTTP/1.1\r\nAccept: */*\r\n" | slurmrestd
```



QUESTIONS?/COMMENTS?