Astro3

Access, accounts, and storage for the astro3 cluster.

- Accessing astro3
- astro3 Account & Partitions

Accessing astro3

How to get access and connect to the astro3 cluster over SSH.

Requirements

- Must be a member of the `physics_astro3` LDAP group
- Valid Tel Aviv University username and password
- If connecting from outside the TAU network: TAU VPN must be active — see Palo Alto VPN

Login Node

Direct SSH to the astro3 head node — no load-balanced login pool like powerslurm:

```
astro3.tau.ac.il
```

Connecting via SSH

```
ssh your_username@astro3.tau.ac.il
```

With an SSH key:

```
ssh -i /path/to/your/private_key your_username@astro3.tau.ac.il
```

Important

- Do not run compute jobs directly on the head node — use `sbatch` or `srun`
- The head node is shared — heavy processes may be killed

astro3 Account & Partitions

astro3 uses its own Slurm account and partitions, separate from the main powerslurm cluster.

Your Account

All astro3 users are under the account:

```
astro3-users
```

This is your default account — you don't need to specify `--account` when submitting jobs.

Partitions

Partition	Notes
`workq`	Default partition
`galaxyformation`	Available to all astro3 users

Both partitions have access to all cluster nodes.

Useful Commands

```
# View all partitions and their status
sinfo

# View partition details
scontrol show partition workq

# View your running and pending jobs
squeue -u your_username
```

Submitting Jobs / General Slurm Usage

For job script syntax, `sbatch`/`srun` usage, and job arrays, see the existing Running Jobs book and Common Slurm Commands reference — these apply the same way on astro3 as on the main cluster.

Coming from PBS?

If you're used to the old PBS/Torque system, see PBS to Slurm Migration for command equivalents.

Need Access?

If you believe you should have astro3 access but don't, contact the HPC team at hpc@tauex.tau.ac.il.