

Grouper provisioning concurrency

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Description

- The provisioning framework will run actions in threads
- The target by default is assumed to be able to process concurrent operations
- These operations will be threaded by type
 - e.g. all group inserts will run in threads, and when all complete, do all the entity inserts
- The default number of threads is 5
 - This can be configured in the provisioner
 - The same number of threads is used for full and incremental
- The thread pool is cached statically for each provisioner
 - Its ok if the next job runs on another node
 - If the thread size configuration is changed then the thread pool will be replaced dynamically

Programming a DAO and specifying batch size

- The batch size per thread should match how much work an operation can do
- The default batch size is 20
 - e.g. if there are 85 groups to delete, with a batch size of 20, then 5 threads will run at the same time to delete 20, 20, 20, 20, and 5 groups at the same time
- Specify the batch size for each operation in the DAO. E.g. for Azure, all operations can happen 20 at a time, but adding memberships can happen 400 at a time...

```
@Override
public void registerGrouperProvisionerDaoCapabilities(GrouperProvisionerDaoCapabilities
grouperProvisionerDaoCapabilities) {

    grouperProvisionerDaoCapabilities.setDefaultBatchSize(20);
    grouperProvisionerDaoCapabilities.setInsertMembershipsBatchSize(400);
}
```