

Developer's Guide to the Grouper API

Wiki Home	Grouper Release Announcements	Grouper Guides	Grouper Deployment Guide	Community Contributions	Internal Developer Resources
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Using the Grouper API to bootstrap your Groups Registry

This document is current as of the v2.0 release.

- Find *GrouperSystem* Subject

```
Subject grouperSystem = SubjectFinder.findRootSubject();
```

- Start-and-stop sessions

```
Subject subject = SubjectFinder.findById("mchyzer", true);
GrouperSession grouperSession = GrouperSession.start(subject);
try {

    //do some grouper stuff

} finally {
    GrouperSession.stopQuietly(grouperSession);
}
```

- Find the root stem

```
Stem rootStem = StemFinder.findRootStem(grouperSession);
```

- Find stem by name (note: the true/false is if an exception should be thrown if not found)

```
Stem stem = StemFinder.findbyName(grouperSession, "some:stem:name", true);
```

- Create stem

```
Stem stem = new StemSave(grouperSession).assignName("some:stem:name").assignCreateParentStemsIfNotExist(true).save();
```

- Find group by name (note: the true/false is if an exception should be thrown if not found)

```
Group group = GroupFinder.findByName(grouperSession, "some:group:name", true);
```

- Create group

```
Group group = new GroupSave(grouperSession).assignName("some:folder:groupName").save();
```

- Find *GrouperAll* subject

```
Subject grouperAll = SubjectFinder.findAllSubject();
```

- Check for membership in the wheel group

```
boolean isWheelOrRoot = PrivilegeHelper.isWheelOrRoot(subject);
```

- Add wheel group member

```
String groupName = GrouperConfig.getProperty( GrouperConfig.PROP_WHEEL_GROUP );
Group wheelGroup = GroupFinder.findByName( GrouperSession.staticGrouperSession().internal_getRootSession(),
groupName, true );
wheelGroup.addMember(subject, false);
```

- See if a subject is in the registry by ID and source ID, without resolving the subject

```
gsh 0% GrouperSession grouperSession = GrouperSession.startRootSession();
gsh 1% Subject subject = new SubjectImpl("test.subject.0", null, null, "person", "jdbc");
gsh 2% MemberFinder.findBySubject(grouperSession, subject, false);
member: id='test.subject.0' type='person' source='jdbc' uuid='fc98430743f7435d9f69286624a2f8b5'
gsh 3% subject = new SubjectImpl("test.subject.0xyz", null, null, "person", "jdbc");
subject: id='test.subject.0xyz' type='person' source='jdbc' name='null'
gsh 4% MemberFinder.findBySubject(grouperSession, subject, false);
gsh 5%
```