

# How to Sync Tasks and Subtasks in Jira On-premise

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With Exalate, you can sync tasks and subtasks while keeping the parent-child relationship on the remote side. Check the example below. The example below works only for connections in Scripting mode. If you already created a connection in Visual mode, you need to create a new connection in Scripting mode.

## Source Side

### Outgoing sync

Send the ID of the parent issue.

```
replica.parentId = issue.parentId
```

## Destination Side

### Incoming sync

Find the local parent issue with the help of the **parent.id received from** the remote side.

To sync the parent link with a subtask, you need to first sync a parent task, and then only the related subtasks. So if you sync subtasks *before* the parent task, you get an error.

```
if(firstSync && replica.parentId){  
    issue.typeName    = "Sub-task" //Make sure to use the right subtask type here.  
    def localParent = nodeHelper.getLocalIssueFromRemoteId(replica.parentId.toLong())  
    if(localParent){  
        issue.parentId = localParent.id  
    } else {  
        throw new com.exalate.api.exception.IssueTrackerException("Subtask cannot be created: parent issue with remote id " + replica.parentId + " was not found. Please make sure the parent issue is synchronized before resolving this error" )  
    }  
}
```

## Syncing Subtasks Automatically after Syncing Parent Task (Jira Cloud)

### Outgoing sync

```
// Automatically sync all subtasks when syncing parent task  
httpClient.get("/rest/api/3/issue/"+issueKey.id).fields.subtasks?.collect{  
    def subTaskKey = new com.exalate.basic.domain.BasicIssueKey(it.id, it.key)  
    syncHelper.exalate(subTaskKey)  
}
```

## Syncing Subtasks in Visual Mode for Jira Cloud and Jira on-premise

With this script, you can specify how the subtask is linked to the parent task.

```
if(firstSync && replica.parentId){  
    issue.typeName = "Sub-task" //Make sure to use the right subtask type here.  
    def localParent = nodeHelper.getLocalIssueFromRemoteId(replica.parentId.toLong())  
    if(localParent){  
        issue.parentId = localParent.id  
    } else {  
        throw new com.exalate.api.exception.IssueTrackerException("Subtask cannot be created: parent issue with remote id " + replica.parentId + " was not found. Please make sure the parent issue is synchronized before resolving this error" )  
    }  
}
```

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