MidPoint Deployment: First Steps [MID301]

Student Lab Guide - Module 3

Evolveum, s.r.o.

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This lab guide is not a standalone document and should be used only for the purpose of this training. If there are any questions during the course related to the content of the training or this lab guide itself, do not hesitate to ask the instructor.

If there are any errors, typos or typographic convention mistakes, please report them to the instructor as well. Thank you.

All labs were tested with the midPoint version used during the training.

We assume you have already installed the prerequisites before this training (if there were any).

Disclaimer

The names, organizations and places portrayed in this training course are fictitious. No identification with actual persons (living or deceased), organizations, places or events is intended or should be inferred.

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Module 3: Importing Source Data

LAB 3-1: Single Source System Entry Import Simulation

Estimated Time: 10 min.

In this lab, we will simulate a single source system account import and improve the resource configuration based on the results of simulation. This is how the usual midPoint deployment works: we are improving the configuration in iterations. Thanks to the simulations, we can do it without any consequences.

In your browser with midPoint:

1. go to **Resources › All resources**
2. edit **HR** resource
3. click **Accounts** menu item
4. click context menu for account `1001` and select **Import preview**
5. in **Select task execution mode** select: **Simulated development** and click **Select**

Simulated development mode will evaluate all `Active` and `Proposed` configuration items, but there will be no permanent effects on data; we are only simulating.

6. **1001** user is indicated to be *activated* (created and/or enabled)
7. click **1001** user entry in the list of processed objects to display the details
   a. notice which user properties are being populated from HR by the import and that **Locality** and **Lifecycle status** attribute values are not being populated
8. click **Back** to get to the list of processed objects
9. click **Back** to get to the list of HR accounts
10. click **Configure**, then click **Mappings** item in the context menu
    a. use **Add inbound** button to create two additional mappings:

Name	From resource attribute	Expression	Target	Lifecycle State
locality-to-locality	locality	As is	locality	Active

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Name	From resource attribute	Expression	Target	Lifecycle State
status-to-lifecycle-state	status	Script	lifecycleState	Active

b. click **Show script** for the `status` attribute mapping

i. paste the following code:

```
switch (input) {
    case 'In':
        'active'
        break

    case 'Long-term leave':
        'suspended'
        break

    case 'Former employee':
        'archived'
        break

    //default:
       //'suspended'
       //break
}
```

ii. click **Done**

c. click **Save mappings**

11. click context menu for account (1001) and select **Import preview**
12. in **Select task execution mode** select: **Simulated development** and click **Select**
13. click **1001** user entry in the list of processed objects to display the details

a. notice which user properties are being populated from HR by the import and that **Locality** (`Small Red Rock City`) and **Lifecycle state** (`active`) are now being populated as well

14. click **Back** to get to the list of processed objects
15. click **Back** to get to the list of HR accounts
16. in resource's **Lifecycle state** toolbar, select `Active (Production)`

We have finished the HR resource configuration. We have simulated the import and validated the attribute mappings. Resource is ready to be used for data import to midPoint.

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LAB 3-2: Source System Data Import

Estimated Time: 10 min.

In this lab, we will import data about users from HR resource.

In your browser with midPoint:

1. go to **Resources › All resources**
2. edit **HR** resource
3. click **Accounts** menu item
4. click **Tasks**, then click **Create task** item in the context menu to open a simple task creation wizard
   a. click **Import Task** tile to select it
   b. keep **Simulate task** value **OFF**
   c. click **Create task**
   d. keep the task name empty and midPoint will generate its own task name
   e. click **Next: Resource objects**
   f. keep defaults.

      If you are wondering why the `intent` is set to `default`, it is because we have not set any intent when creating the object type definition - that corresponds to an intent named `default`.

   g. click **Next: Distribution**
   h. keep defaults
   i. click **Save & Run**

A new import task has been created and started in background. We will check the import progress and status.

In your browser with midPoint:

1. display the tasks by using either:
   a. go to **Server tasks › Import tasks** ; or
   b. click **Tasks** and click **View import tasks** item in the context menu ; or
   c. click **Defined Tasks** menu item
2. click the task **Import task: HR: HR Person** to open task details
   a. click **Operation statistics** to watch the task progress

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   b. Summary of processed objects and Synchronization situation transitions are displayed. This allows to understand what just happened. We can see 40 (1+39) accounts are now linked to their corresponding midPoint owners (users) - which have been created during the process.

3. go to **Users › All users** and check if users are imported.
4. edit user **1001** and notice which user properties are populated in user's **Basic** panel (displayed by default)
5. click **Back**

Only IT-related users should be imported because classification filter we have defined in the resource. Users with personal number starting with `8` were not imported to midPoint.

You may have noticed that no full names are filled (yet). Also, we have created just "ordinary" users. We will improve the situation by introducing archetypes.

You may think of archetype as an object *category*. It helps administrators to distinguish between objects visually, but later we can define specific behavior for each archetype. We will use midPoint built-in archetype `Person` and reimport users from HR.

In your browser with midPoint:

1. go to **Users › Persons** and check there are no entries
2. go to **Resources › All resources**
3. edit **HR** resource
4. click **Accounts** menu item
5. click **Configure**, then click **Basic attributes** item in the context menu
6. click **Next: Resource data**
7. click **Next: MidPoint data**
   a. **Archetype**: click **Choose**, then click **Person**
8. click **Save settings**
9. click **Exit wizard**
10. click **Defined Tasks** menu item
11. click the task **Import task: HR: HR Person** to display task details
12. click **Operation statistics** to watch the task progress
13. click **Run now** button and wait for the task completion (task status: closed)
14. go to **Users › Persons** and check if users are imported

You may have noticed that users now have full names populated! This is a direct consequence of

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assigning `Person` archetype. We will explain this later in the course.

This concludes the Module 3 labs.

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