

# PlayceRoRo

## User Manual

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Ver 1.0.0



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## 1. Overview

This document is provided to help Playce RoRo users to understand the software. For supporting environmental information for Playce RoRo described in this document, please refer to the following.

### 1.1 Supporting operating systems

<b>Linux 64Bit</b>	<ul style="list-style-type: none"><li>- Ubuntu 14.04, 14.10, 15.04, 16.04, 16.10</li><li>- Red Hat Enterprise Linux (RHEL) 6.1-6.9, 7.0-7.3</li><li>- CentOS 6.1-6.6, 7.0-7.5</li><li>- Debian 6.0.0-6.0.8, 7.0.0-7.8.0, 8.0.0</li><li>- Oracle Linux 6.1-6.6, 7.0-7.1</li><li>- Fedora Server 19-21</li></ul>
<b>Unix</b>	<ul style="list-style-type: none"><li>- AIX 6.1, 7.1</li></ul>

### 1.2 System

<b>Network</b>	<ul style="list-style-type: none"><li>- SSH connection from RoRo to user server should be available.</li><li>- VPN can be used if necessary (additional charge may apply).</li></ul>
<b>User account accessible through SSH connection</b>	<ul style="list-style-type: none"><li>- Users should be able to log in with a password.</li><li>- sudo command should be executable without password verification.</li></ul>
<b>Package</b>	<ul style="list-style-type: none"><li>- rsync (required only for Linux)</li><li>- python 2.7+ (required only for Linux)</li><li>- Java 1.7+ (required only for WAS analysis function use)</li></ul>

### 1.3 Migration

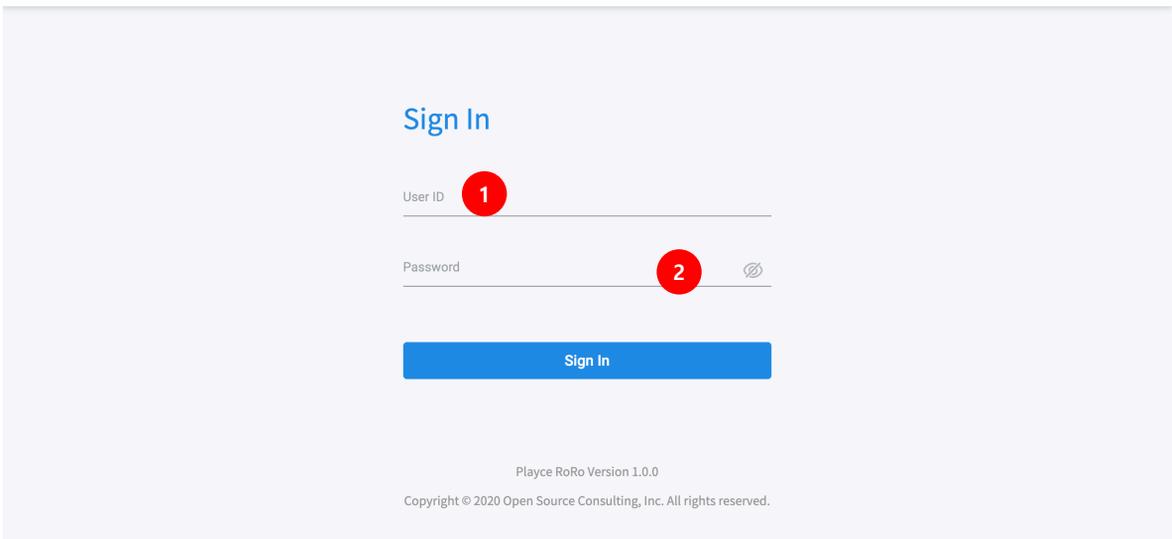
<b>License</b>	<ul style="list-style-type: none"><li>- License must be purchased to perform migration.</li></ul>
<b>AWS Service Limit</b>	<ul style="list-style-type: none"><li>- Up to 5 migrations can be performed at the same time per region.</li><li>- If necessary, the limit can be increased through the Support Center.</li></ul>

## 2. How to Login in Playce RoRo

### 2.1 Playce RoRo Login

Connect to Playce RoRo.

PlayceRoRo



- ① Enter the issued User ID and Password.
- ② Click the "Sign In" button below.

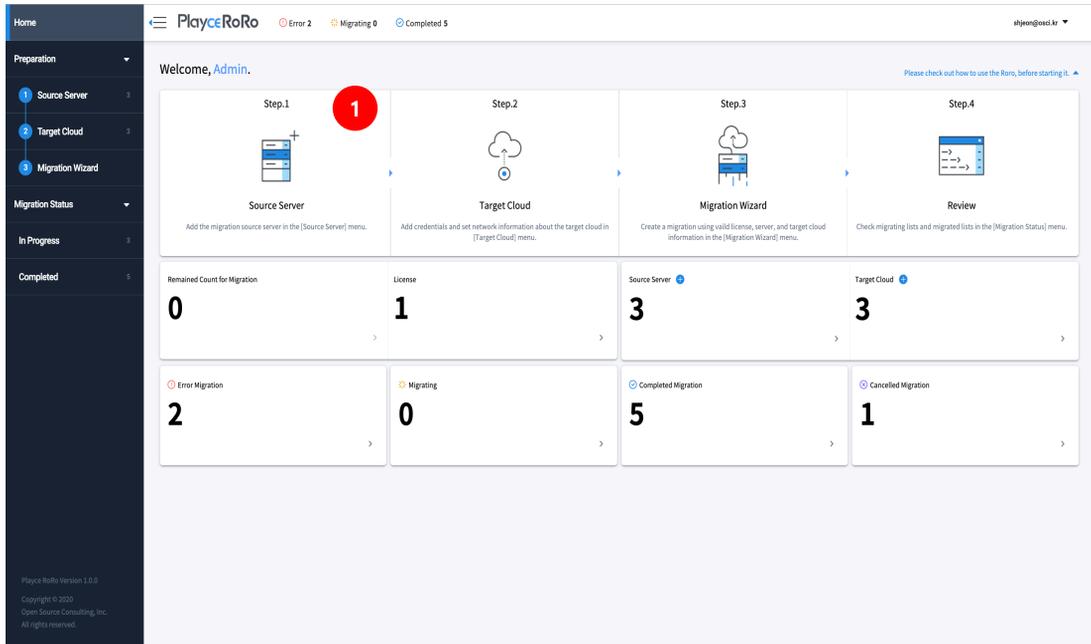
### 2.2 Playce RoRo License

You can apply for a trial license through the website,

<https://www.play-ce.io/free-start.html#playce-roro>

After applying for the license, the manager will check and issue a trial version of license.

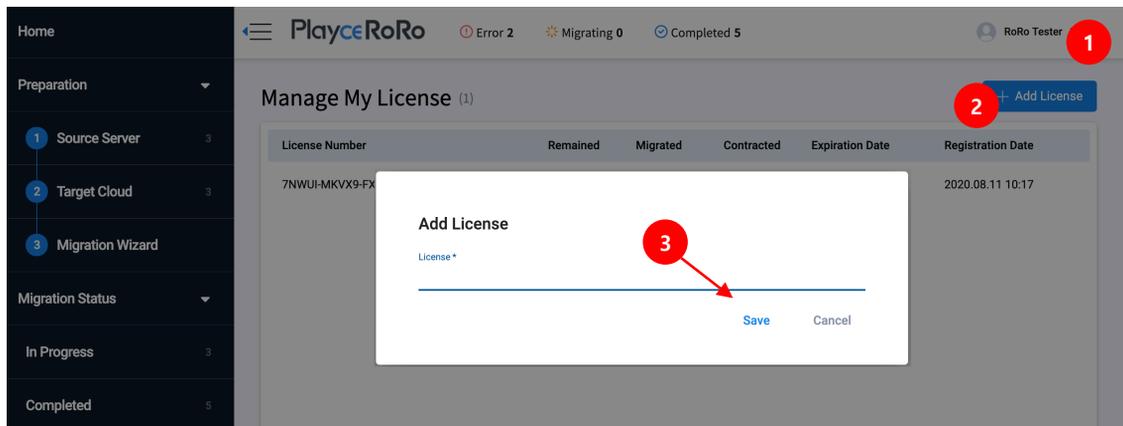
## 2.2 Playce RoRo Dashboard



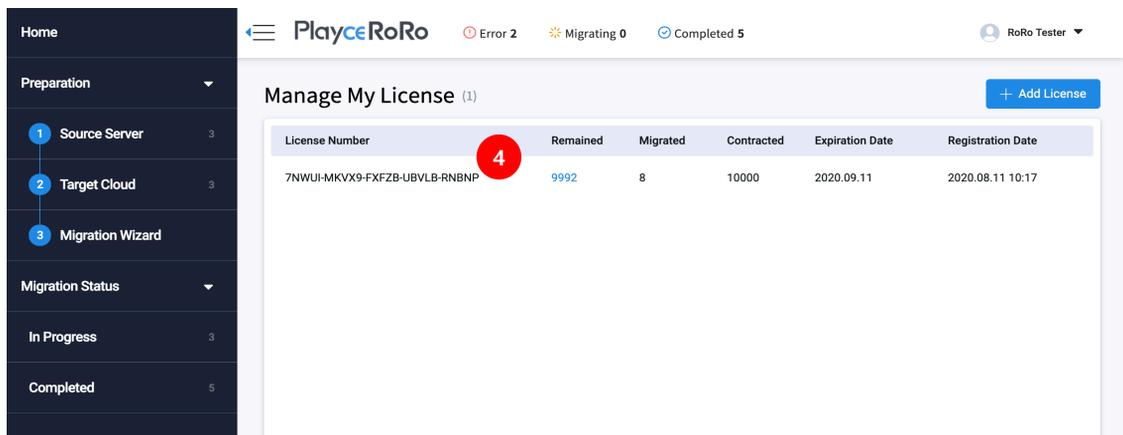
- ① Dashboard provides how to use Playce RoRo and the summary information.
- ② Please refer to the following for description of license items by dashboard.

<b>Remained Count for Migration</b>	- Shows the number of migration remained that can be used
<b>License</b>	- Shows the number of licenses you have
<b>Source Server</b>	- Shows the number of currently registered source servers
<b>Target Cloud</b>	- Shows the number of Credentials registered in the target cloud
<b>Error Migration</b>	- Shows the number of migrations with errors
<b>Migrating</b>	- Shows the number of migrations in process
<b>Completed Migration</b>	- Shows the number of finished migrations
<b>Cancelled Migration</b>	- Shows the number of suspended migrations

### 3. Playce RoRo License Registration



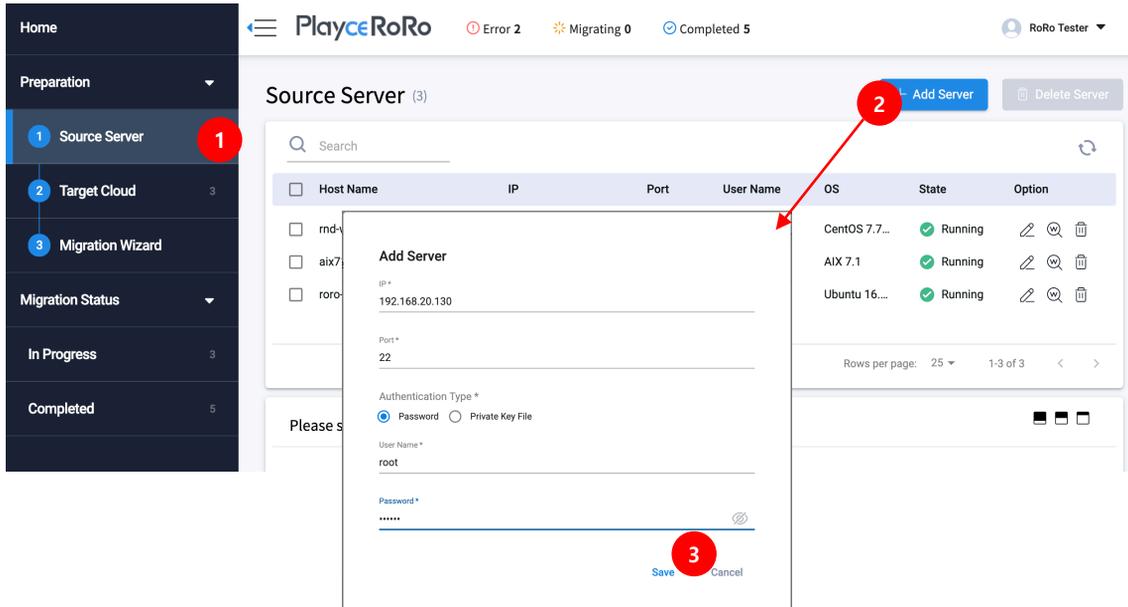
- ① When you click your username in the top right corner, it will display a drop-down menu where you can edit your profile, manage my license, and log out.
- ② Select [Manage My License] and move to the license registration and list inquiry screen.
- ③ Click 'Add License' button to register the issued license.



- ④ When the License is registered, you can check the remaining number of migrations and expiration date of the license.

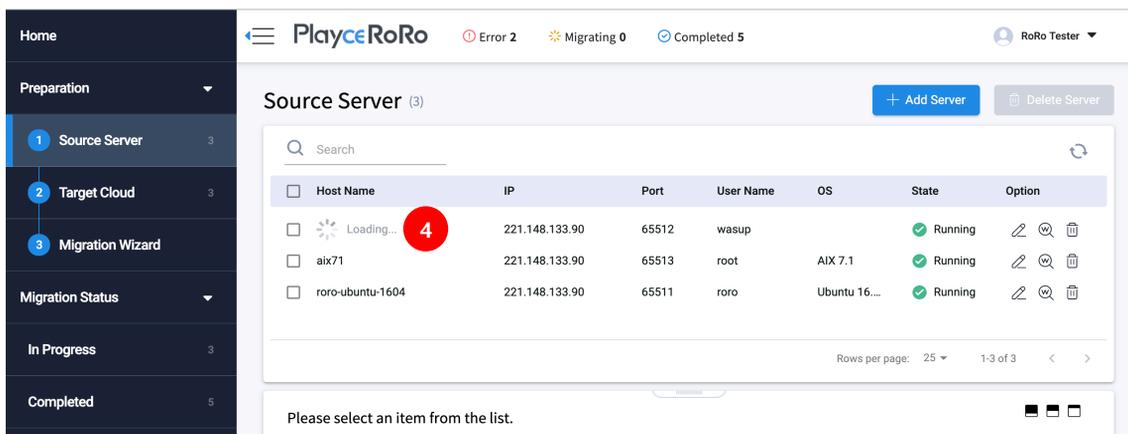
## 4. Migration Preparation

### 4.1 Add Server



- ① You can register the target migration server by clicking [Source Server> Add Server] menu at the top of the left pane.
- ② If you click the [Add Server] button, you can register the connection information for the migration target server in the pop-up window.
- ③ Enter the required server information of the target to be added and click the [Add] button.

※ The target server must be able to be accessible via SSH, and the user (User Name) must have sudo execution authority.



- ④ When the server is registered, the system information is automatically collected by the automation tool.

## 4.2 Migration Pre-configuration (AIX)

Playce RoRo supports cloud migration for Linux as well as AIX. Unlike Linux, AIX requires pre-configuration before the migration.

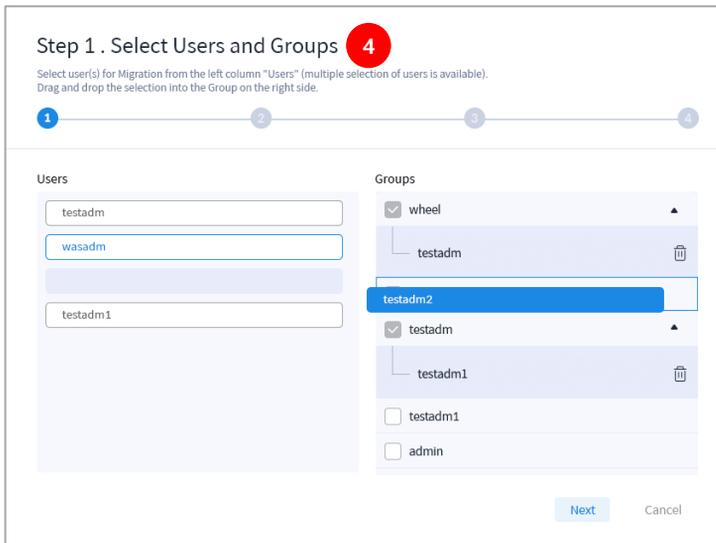
### 4.2.1 Start Pre-configuration

#### Step 1. Select Users and Groups

The screenshot shows the PlayceRoRo web interface. On the left is a dark sidebar with navigation options: Home, Preparation (Source Server, Target Cloud, Migration Wizard), Migration Status (In Progress, Completed). The main area is titled 'Source Server (3)' and contains a table of servers. A red circle '1' highlights the 'Source Server' menu item. Below the table, the 'aix71' server is selected, and its 'PRECONFIG' tab is active, highlighted with a red circle '2'. A red circle '3' highlights the 'Start Preconfiguration' button at the bottom of the preconfig section.

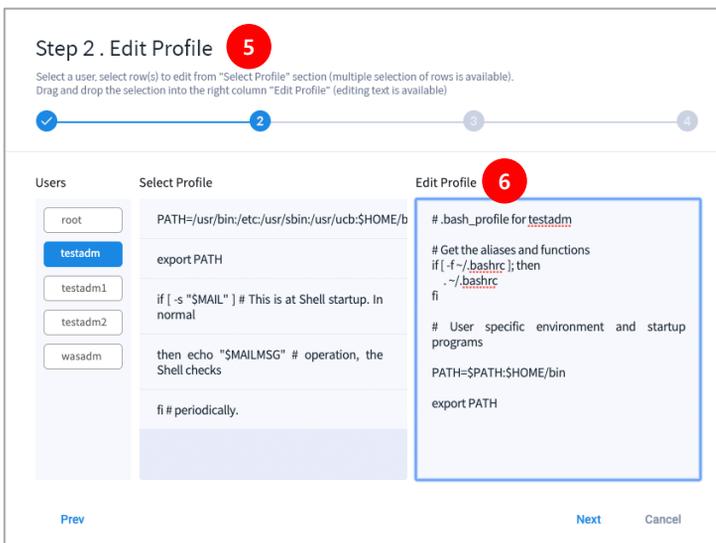
Host Name	IP	Port	User Name	OS	State	Option
<input type="checkbox"/> rnd-wasup-dev-agent1	221.148.133.90	65512	wasup	CentOS 7.7...	Running	<a href="#">Edit</a> <a href="#">View</a> <a href="#">Delete</a>
<input type="checkbox"/> aix71	221.148.133.90	65513	root	AIX 7.1	Running	<a href="#">Edit</a> <a href="#">View</a> <a href="#">Delete</a>
<input type="checkbox"/> roro-ubuntu-1604	221.148.133.90	65511	roro	Ubuntu 16...	Running	<a href="#">Edit</a> <a href="#">View</a> <a href="#">Delete</a>

- ① You can perform pre-configuration before the migration by selecting [Source Server], server to be analyzed, at the top of the left pane.
- ② Select the [Preconfig] tab at the bottom after selecting the server to be analyzed from the server list.
- ③ The first step is to click the [Start Pre configuration] button, then it opens [Step 1. Select Users & Groups] pop-up window.



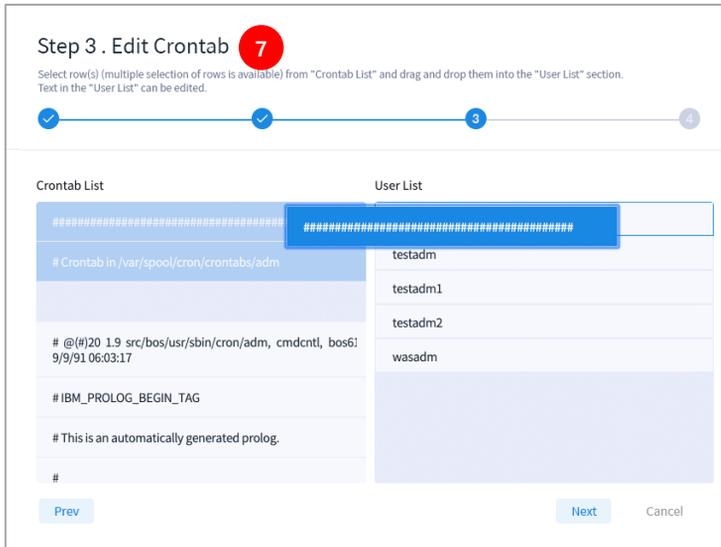
- ④ Look up existing User and Group information on the current system through the pop-up window, select the user to migrate, and drag and drop to the desired group.

## Step 2. Edit Profile

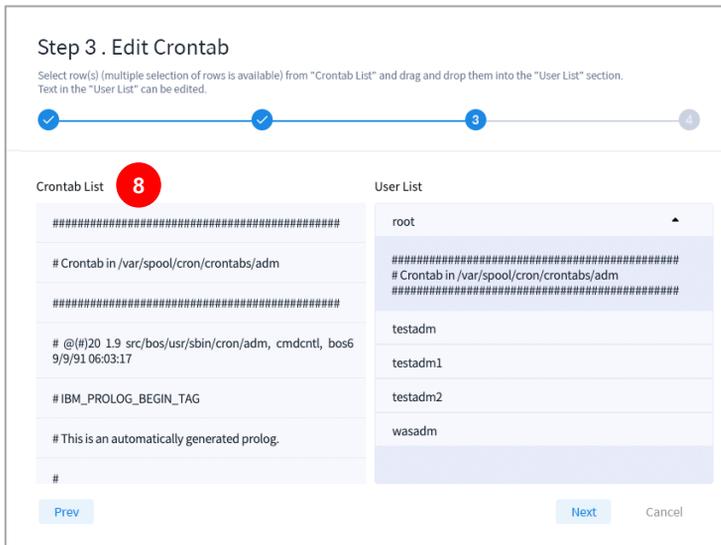


- ⑤ The second step is to search the profile information of the previously selected users, select one or more profile information that needs to be migrated, and drag & drop to the Edit Profile.
- ⑥ You can also directly modify profile through [Edit Profile] on the right side of the screen.

### Step 3. Edit Crontab

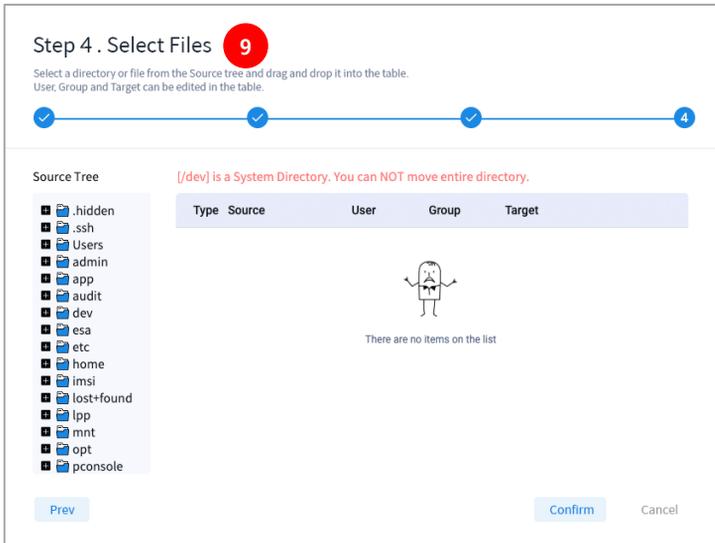


- ⑦ The third step is to search the crontab information in the existing system, select one or more crontab information that needs to be migrated, and drag & drop to the desired user.



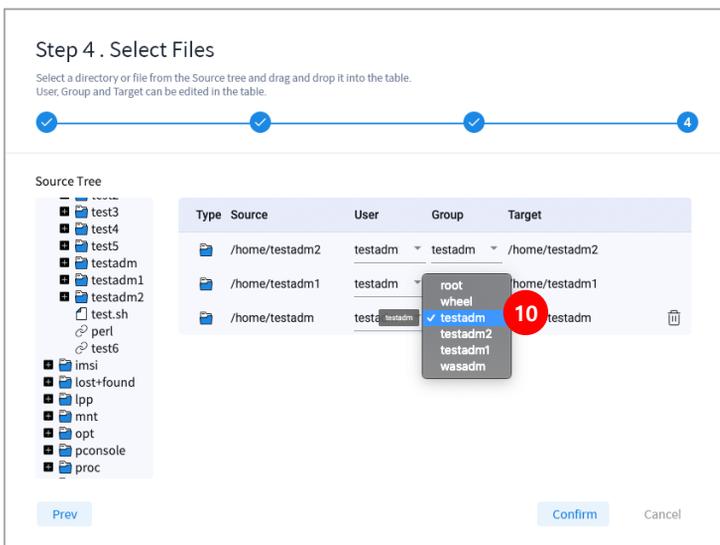
- ⑧ Crontab can also be modified directly.

### Step 4. Select Files



⑨ The fourth step is to search the file list of the existing system, select the files to be migrated, and Drag & Drop.

※ Linux system directories such as /bin, /dev, and /opt cannot be moved as a whole and must be selected as subdirectories or files.



⑩ After selecting the migration target file list, you can modify the permission information for the file.

### 4.2.2 Check Pre-configuration

The screenshot shows the PlayceRoRo web interface. On the left is a navigation sidebar with sections: Home, Preparation (Source Server, Target Cloud, Migration Wizard), Migration Status, In Progress, and Completed. The main area displays 'Source Server (3)' with a table of servers. Below that, the 'aix71' server details are shown, with the 'PRECONFIG' tab selected. A red circle '1' highlights the 'PRECONFIG' tab. Under 'Users', there is a table with columns for Name, Groups, Home Directory, Profile, and Crontab. A red circle '2' highlights the 'View' links for the Profile and Crontab columns. Below the Users table is a 'Files' section with a table of file mappings.

Host Name	IP	Port	User Name	OS	State	Option
<input type="checkbox"/> rnd-wasup-dev-agent1	221.148.133.90	65512	wasup	CentOS 7.7...	Running	<a href="#">Edit</a> <a href="#">Refresh</a> <a href="#">Delete</a>
<input type="checkbox"/> aix71	221.148.133.90	65513	root	AIX 7.1	Running	<a href="#">Edit</a> <a href="#">Refresh</a> <a href="#">Delete</a>
<input type="checkbox"/> roro-ubuntu-1604	221.148.133.90	65511	roro	Ubuntu 16...	Running	<a href="#">Edit</a> <a href="#">Refresh</a> <a href="#">Delete</a>

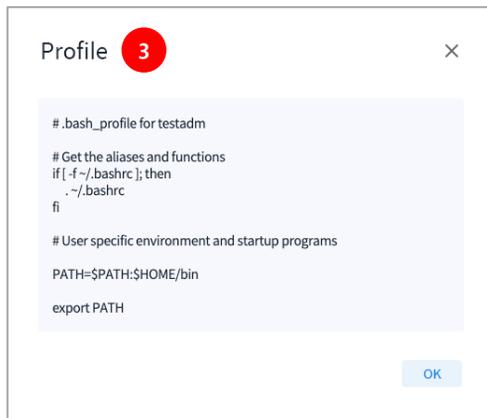
  

Name	Groups	Home Directory	Profile	Crontab
root	root	/	<a href="#">View</a>	<a href="#">View</a>
roro	wheelroro	/home/roro	<a href="#">View</a>	<a href="#">View</a>
srvproxy	rorowheel	/home/srvproxy	<a href="#">View</a>	<a href="#">View</a>

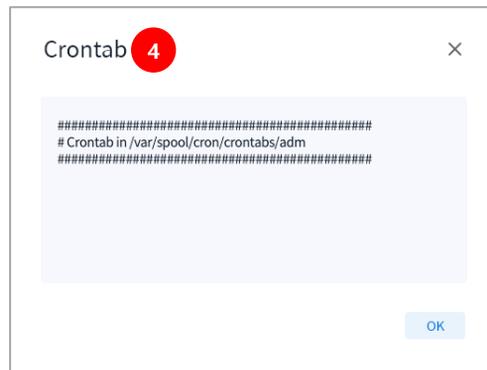
  

Type	Source	User	Group	Target
Directory	/pconsole/apps	root	root	/pconsole/apps
Directory	/home/guest	root	root	/home/guest
Directory	/home/srvproxy	root	root	/home/srvproxy
Directory	/lpp	root	root	/lpp
Directory	/home/lost+found	root	wheel	/home/lost+found
Directory	/home	root	wheel	/home

- ① When the pre-configuration is completed, you can check the settings.
- ② When you click the [View] link for Profile and Crontab in the Users list, each pop-up window will be displayed.



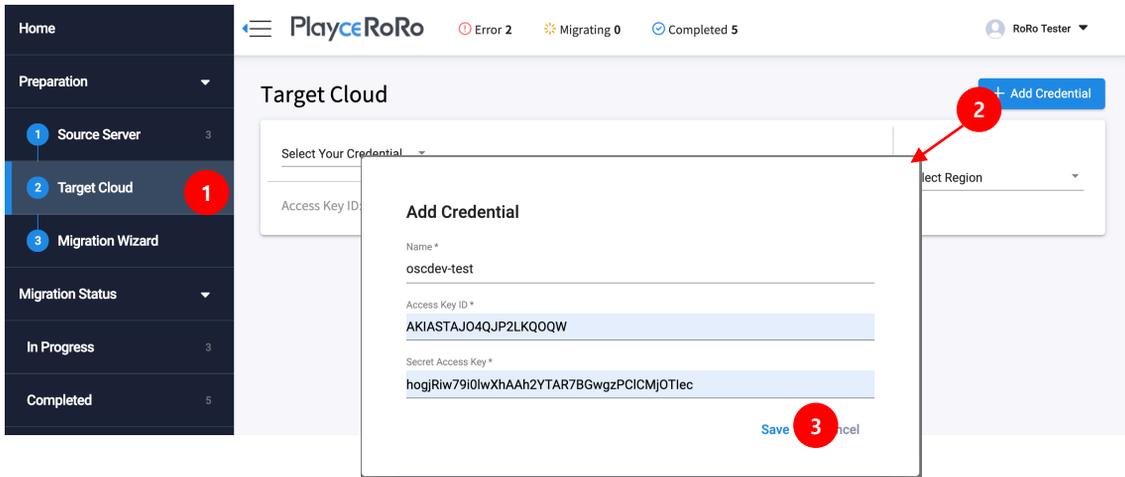
```
# .bash_profile for testadm
# Get the aliases and functions
if [ -f ~/.bashrc ]; then
  . ~/.bashrc
fi
# User specific environment and startup programs
PATH=$PATH:$HOME/bin
export PATH
```



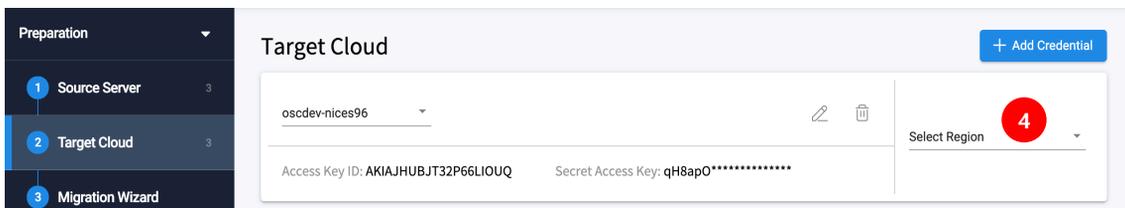
```
#####
# Crontab in /var/spool/cron/crontabs/adm
#####
```

- ③ You can check the content information set in each user's Profile through the Profile pop-up window.
- ④ You can check the content information of each user's Crontab through the Crontab pop-up window.

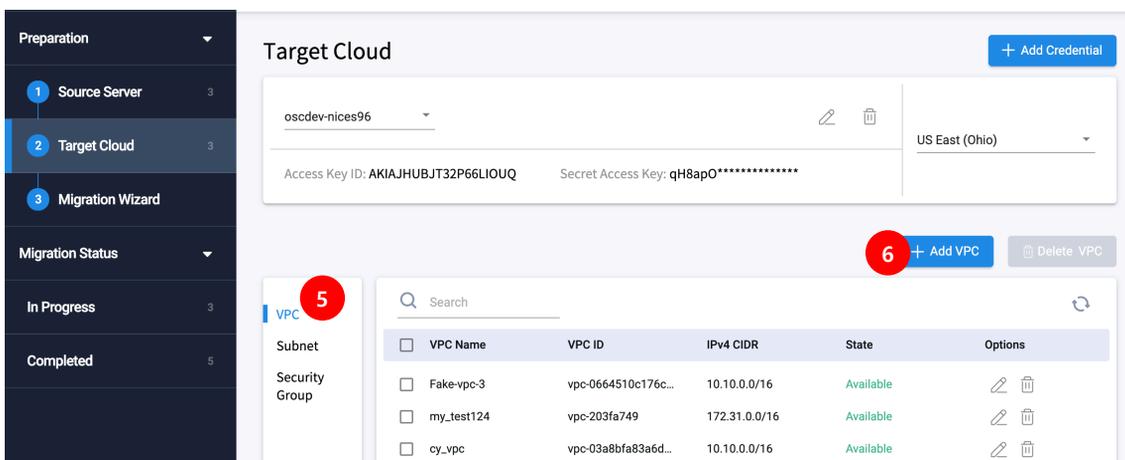
### 4.3 Target Cloud



- ① You can register AWS Credential information and select a list that has already been registered by clicking the [Preparation> Target Cloud] menu at the top of the left pane.
- ② Click the [Add Credential] button in the upper right corner to register AWS Credential information. After registration, you can select the registered key from the list without additional work.
- ③ Enter the required fields and click the [Save] button to save.



- ④ Then, select the registered Credential and select Region.



- ⑤ After selecting the region, you can view, modify, and delete the list of VPCs in the region.
- ⑥ You can register a new VPC by clicking the [Add VPC] button on the right side above the table.

Target Cloud

oscddev-nices96

Access Key ID: AKIAJHUBJT32P66LIOUQ Secret Access Key: qH8apO\*\*\*\*\*

US East (Ohio)

+ Add Subnet

+ Add Credential

Subnet

Subnet Name	Subnet ID	VPC ID	IPv4 CIDR	State	Options
my_subnet	subnet-3e438...	vpc-203fa749	172.31.32.0/20	Available	[edit] [delete]
subnet-cf75c2...	subnet-cf75c2...	vpc-203fa749	172.31.16.0/20	Available	[edit] [delete]
cy_subnet	subnet-0a033f...	vpc-03a8bfa8...	10.10.0.0/24	Available	[edit] [delete]
subnet-53472...	subnet-53472...	vpc-203fa749	172.31.0.0/20	Available	[edit] [delete]

- ⑦ By selecting the [Subnet] tab, you can search, modify, or delete the list of subnets.
- ⑧ You can register a new subnet by clicking the [Add Subnet] button on the upper right side above the table.

Target Cloud

oscddev-nices96

Access Key ID: AKIAJHUBJT32P66LIOUQ Secret Access Key: qH8apO\*\*\*\*\*

US East (Ohio)

+ Add Security Group

+ Add Credential

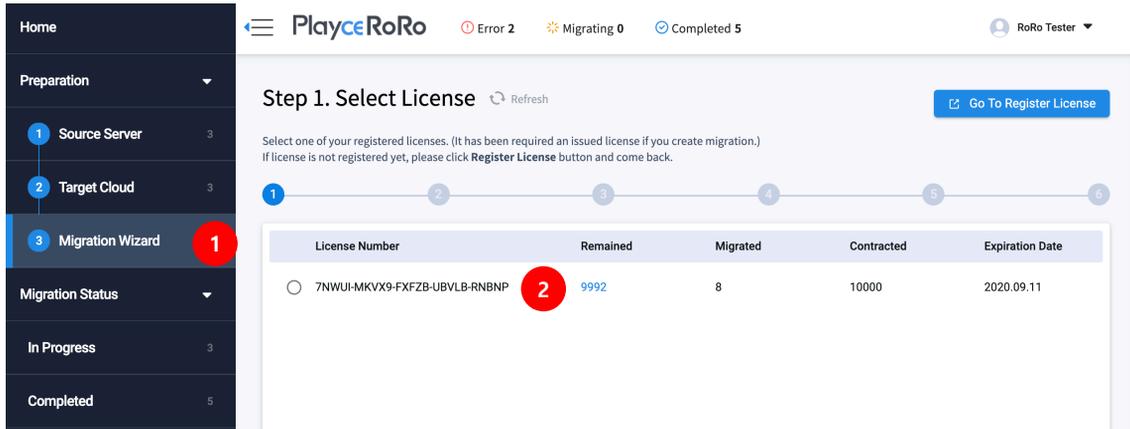
Security Group

Group Name	Group ID	VPC ID	Description	Options
launch-wizard-2	sg-049cff1d574...	vpc-203fa749	launch-wizard-2 created 2020-08-12T14:3...	[delete]
default	sg-04b57bb6e0...	vpc-03a8bfa83a...	default VPC security group	[delete]
eks-cluster-sg-k...	sg-0758d30f332...	vpc-203fa749	EKS created security group applied to ENI ...	[delete]
launch-wizard-3	sg-07e29be43bb...	vpc-03a8bfa83a...	launch-wizard-3 created 2019-08-25T16:1...	[delete]
default	sg-09d3cffaf3a1...	vpc-0664510c17...	default VPC security group	[delete]

- ⑨ By selecting the [Security Group] tab, you can view, modify, and delete the list of security groups.
- ⑩ You can register a new security group by clicking the [Add Security Group] button on the right side above the table.

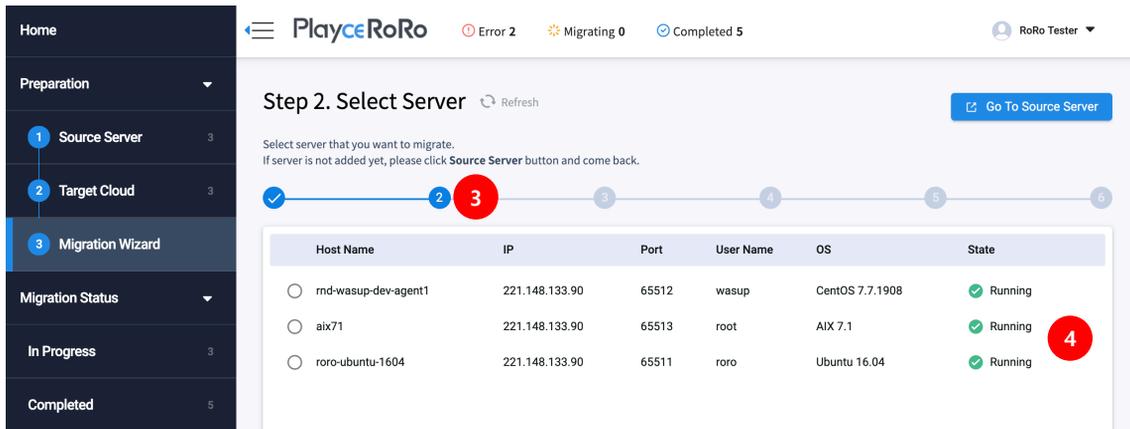
## 5. Start Migration

### Step 1. Select License



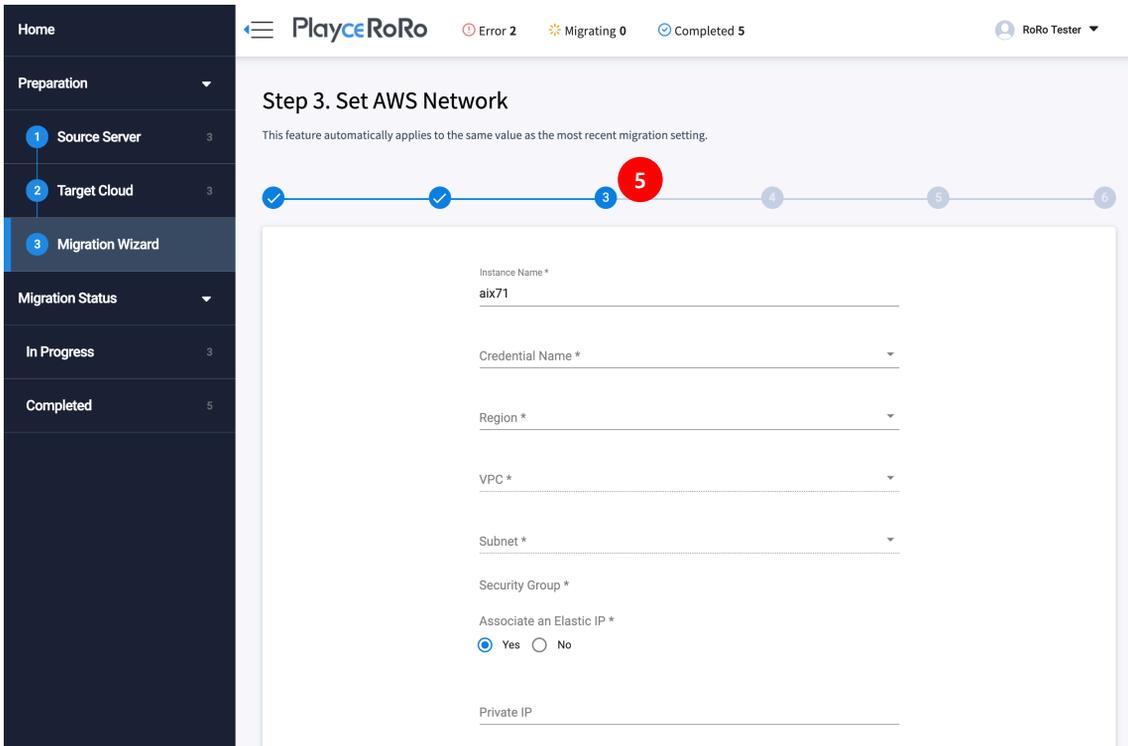
- ① Click the [Preparation> Migration Wizard] menu on the left pane to start the Migration Wizard.
- ② The first step in the wizard is to select one of the registered licenses.

### Step 2. Select Server



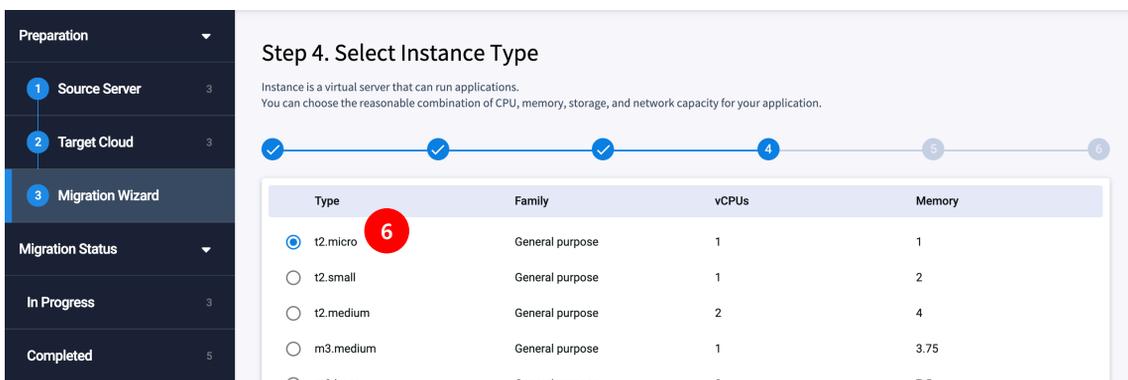
- ③ The second step of the wizard is to select one of the servers registered in the Source Server.
- ④ You can only select servers with only running status.

### Step 3. Set AWS Setting



⑤ The third step of the wizard is to select the network related content of the target cloud.

### Step 4. Select Instance Type



⑥ The fourth step of the wizard is to select an instance type.

### Step 5. Select a volume type

**Step 5. Select Volume Type**

You can edit the configurations of volume. In addition to changing the size of an existing volume, you can select a specific volume to merge into the root volume or mount a separate volume. You can also exclude the specific directory.

Type	Path	Device	Used(MB)	Total(MB)	Size(GB)	Options
<input checked="" type="checkbox"/> xfs > ext4	/	/dev/mapper/centos-root	13975.00	99271	97	<input type="text"/> <input type="button" value="🗑"/>
<input checked="" type="checkbox"/> ext4	/dev	-	-	-	1	<input type="text"/> <input type="button" value="🗑"/>

**Exclude Directory**

Path	Options
/proc/driver	<input type="text"/> <input type="button" value="🗑"/>
/run/lock	<input type="text"/> <input type="button" value="🗑"/>

- ⑦ The fifth step of the wizard is to set volume-related settings. The existing volumes can be split and merged, and separate volumes can be added.
- ⑧ You can specify an “Exclude Directory” at the bottom of screen, to exclude it from the target list.

### Step 6. Review

**Step 6. Review**

Please review the details below. You can go back to make changes for each section. Click **Start Migration** to complete the process.

**License**

License Number	Remained	Migrated	Contracted	Expiration Date
7NWUJ-MKVX9-FXFZB-UBVLB-RNBNP	9992	8	10000	2020.09.11

**Server**

Host Name	IP	Port	User Name	OS
rnd-wasup-dev-agent1	221.148.133.90	65512	wasup	CentOS 7.7.1908

- ⑨ The sixth step of the wizard is to review your selections.
- ⑩ If there are no problems, click the [Start Migration] button in the lower right corner to execute the migration.

## 6. Check Migration

**In Progress (3)** Error 1 Migrating 1 Cancelled 1

Host Name	IP	Credential	Cloud	Time	Options
roro-ubuntu-1604	221.148.133.90	shjeon	aws	01 : 15 : 36 <span style="display: inline-block; width: 50px; height: 10px; background: linear-gradient(to right, yellow, orange, red);"></span> 10%	Cancel <span style="color: red; font-weight: bold;">2</span>
⚡ CREATE_RAW_FILES					
rnd-wasup-dev-agent1	221.148.133.90	shjeon	aws	06 : 28 : 00 <span style="display: inline-block; width: 100px; height: 10px; background-color: #ccc;"></span>	Continue Delete
⊗ CANCELLED					
rnd-wasup-dev-agent1	221.148.133.90	shjeon	aws	- <span style="display: inline-block; width: 100px; height: 10px; background-color: #ccc;"></span>	Restart Delete
⊗ ERROR Process exited with an error: 255 (Exit value: 255)					

- ① You can check the migration progress by clicking the [Migration Status> In Progress] menu at the bottom of the left pane.
- ② You can check the status of Error and Cancel while migration is in progress through the In Progress list.
- ③ Interrupted migrations can be run again through Continue and Restart

**Completed (5)**

Complete Time	Host Name	IP	Credential	Cloud	Elapsed Time
2020.09.09 PM 04:43:32	roro-ubuntu-1604	221.148.133.90	shjeon	aws	00 : 35 : 18
2020.09.08 PM 05:59:59	roro-ubuntu-1604	221.148.133.90	shjeon	aws	00 : 31 : 52
2020.08.18 PM 05:26:20	aix71	221.148.133.90	shjeon	aws	00 : 08 : 04
2020.08.13 PM 05:28:30	rnd-wasup-dev-agent1	221.148.133.90	oscddev-nices96	aws	01 : 36 : 51
2020.08.11 PM 05:31:49	aix71	221.148.133.90	shjeon	aws	00 : 06 : 45

GENERAL SERVER **TARGET CLOUD** 4

Instance ID: i-06b78c3b2cc824791

Instance Name: aix71

Public IP: 18.183.43.248

Private IP: 172.31.47.130

Instance Type: t2.small

Availability Zone: ap-northeast-1d

AMI: ami-0b92c62f61639d398 (aix71\_20200811082803)

VPC ID: vpc-b3384cd7

Subnet ID: subnet-6cc3ba44

Security Group: sg-03a85665 (default)

Block Devices: /dev/xvda

Launch Time: 2020.08.11 17:29:26

- ③ You can check the migration completion status by clicking the [Migration Status> Completed] menu at the bottom of the left pane.
- ④ You can check the migrated instance information by clicking the [Target Cloud] tab at the bottom of screen.