



Week 3: Development Phase II

Unit 5: Import/Export and Deployment

Using SAP Intelligent Robotic Process Automation Factory to deploy projects

- Import and deployment
- Hierarchies
 - or, a way to organize and authorize large numbers of resources
- Environments and variables
- Monitoring



Import and deployment in SAP Intelligent Robotic Process Automation Factory

- Import
- Deployment
- Triggers



Import/Export and Deployment

Importing

- Once you have created a project, you export it from Desktop Studio and import it into cloud factory
- To import a package, go to the Packages tab and click Import



Import/Export and Deployment

Importing

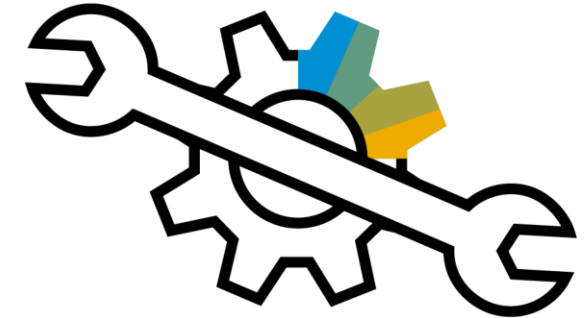
- The package will be versioned so that the next time you import the same package, the version will increase



Import/Export and Deployment

Deployment

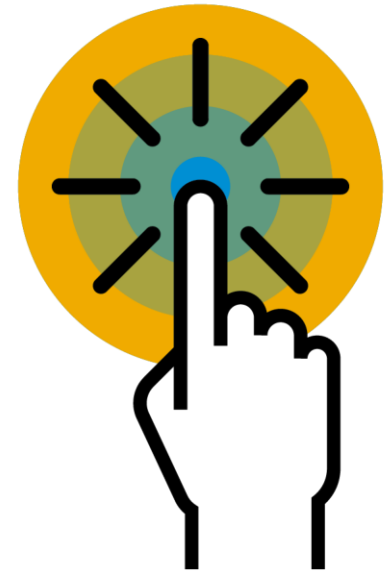
- Deploying a package is associating a package with an environment
- You can deploy one package in multiple environments
- A deployment is the combination of "what" will run and "where" it will run
- Once you create a deployment, you can trigger it in order to make it run



Import/Export and Deployment

Triggers

- Triggers define "when" automations run
- There are two types of triggers:
 - Attended
 - Scheduled



Summary of import and deployment

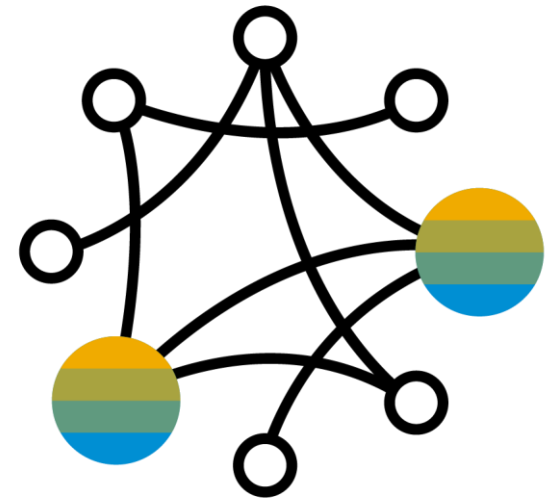
- Deployments use what you have put into an environment to define where automations run
- Triggers define when automations run
- To deploy a package, you need to define at least one environment



Import/Export and Deployment

Environments and variables

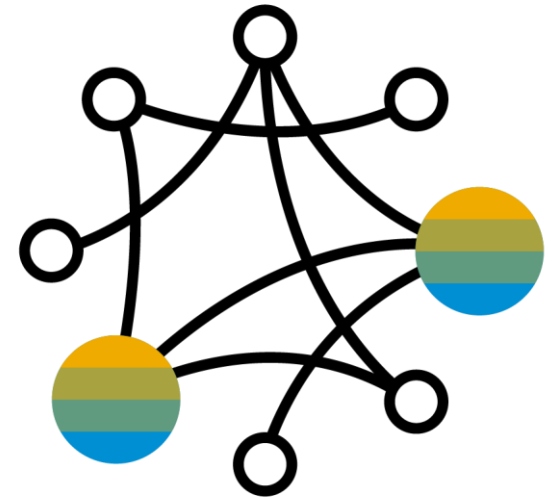
- Variables let you define values that you reuse in other places
- Environments are named groups of variables



Import/Export and Deployment

Environments and variables

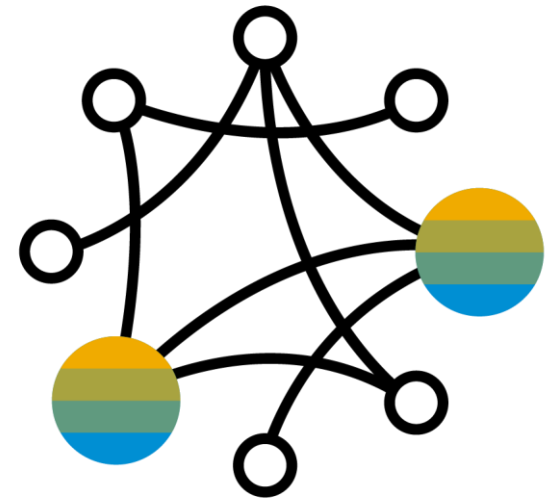
- Variables let you define values that you reuse in other places, and give them memorable names
- You use a variable:
 - inside an environment when you deploy
 - in your automations
- When you deploy a package, pick the environment with the hierarchy variable that defines where your automation will run
- On the desktop, in a scenario, you can use a text or credential variable to let the scenario log in to an app or Website



Import/Export and Deployment

Environments and variables

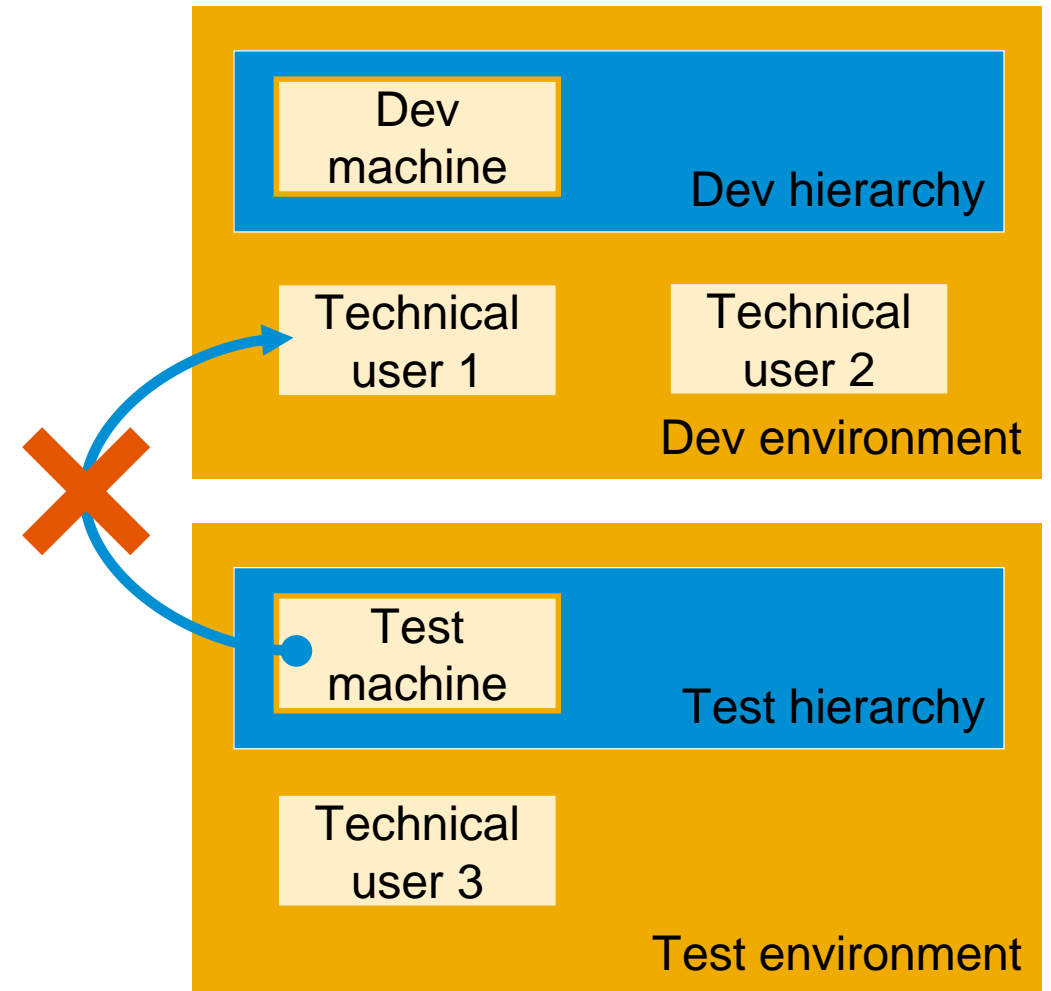
- Environments are named groups of variables
- The environment isolates variables from other environments
- Security: to get the value of a variable, the automation must be running in the same hierarchy as the environment



Import/Export and Deployment

Environments and variables

- Environment
 - a container that isolates values in it
 - only usable by the automations running in it



Summary of environments and variables

- Variables let you assign names to often-used values
- Environments group and isolate variables
- To be useful, an environment has to define at least one hierarchy



Import/Export and Deployment

Hierarchies

Hierarchies let you manage resources that are authorized to run automations.

- Create one group for multiple machines and apply a policy one time
- Apply the common policy to all, then override a sub-group with a more specific policy

Hierarchy Type: machine



▼ HR

- ▼ Hiring
 - machine a
 - machine b
 - machine c
 - machine d
 - machine e
 - machine f
 - machine g
 - machine h
 - machine i
 - machine j
 - machine k
 - machine l
- ▼ Payroll
 - machine m

*Name: HR

*Label: HR

☒ Reserve for unattended execution

*Date range: Aug 21, 2019  End date 

Timezone: Europe/Berlin

Midnight (AM) Noon (PM)

12 2 4 6 8 10 12 2 4 6 8 10 12

Sunday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Import/Export and Deployment Hierarchies

- Hierarchies fill the two needs we just outlined:
 - Group common resources and apply common properties to the group
 - Define sub-groups to override properties defined on the ancestors
- Reduce the number of different deployments that you have to make
- Security: only the defined machines or logins can be used

*Name: Hiring

*Label: Hiring

☒ Override parent availability

*Date range:

Aug 21, 2019

End date

Timezone: Europe/Berlin

Midnight (AM)

Noon (PM)

12 2 4 6 8 10 12 2 4 6 8 10 12

Sunday

Monday

Tuesday

Wednesday

Thursday

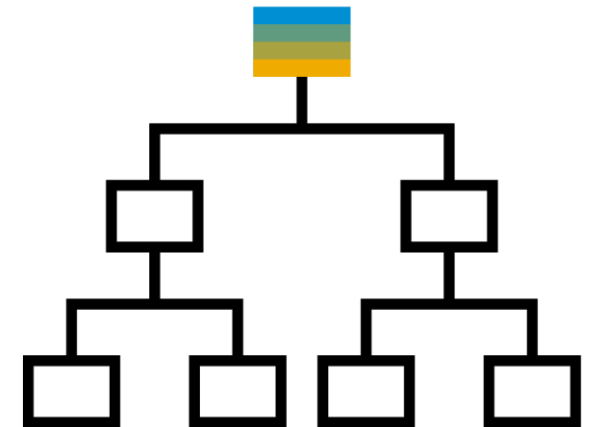
Friday

Saturday

Import/Export and Deployment

Hierarchies

- What if your users have multiple machines?
- Agent runs as the user account that is logged in and knows the login
- Groups and sub-groups just like machine hierarchy



Import/Export and Deployment

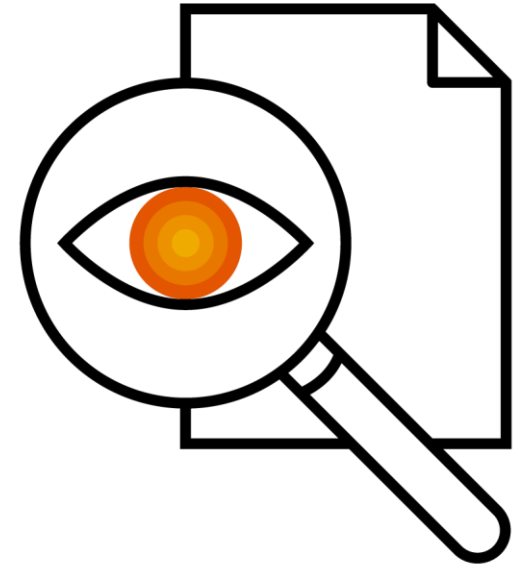
Summary of hierarchies

- Manage large groups of resources
- Apply common properties to many resources quickly
- Machine hierarchies
 - authorize agents to run on machines
- Login hierarchies
 - authorize agents to run for logged-in user accounts



Summary of deployment, environments, and hierarchies

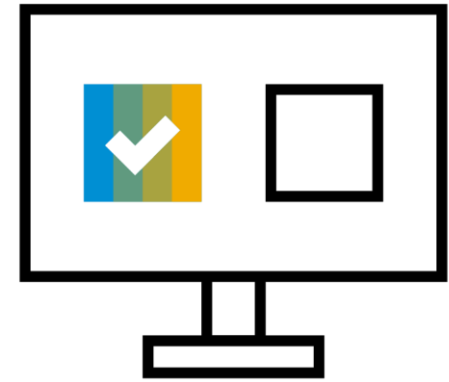
- To run an automation:
 1. Import project: defines "what"
 2. Create a hierarchy
 3. Create an environment and add the hierarchy
 4. Deploy a package: the environment defines "where"
 5. Create a trigger: defines "when"
- Once you run your automations, let's monitor them



Import/Export and Deployment

Monitoring

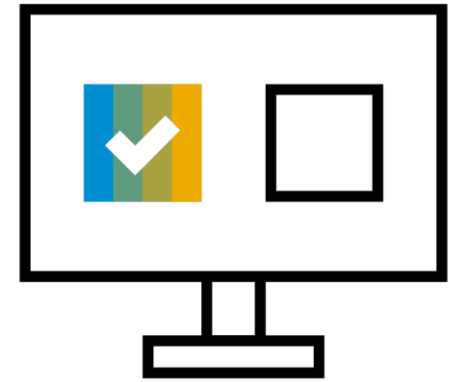
- A way to see what is happening on your system
- Dashboard shows an overview
- Use the sub-tabs for details
 - Running jobs
 - Agents



Import/Export and Deployment

Monitoring

- Jobs tab shows jobs that ran in the last 30 days
- Agents tab shows
 - agents that are running
 - if agents are connected
 - what packages they are running
 - on what environments



Import/Export and Deployment

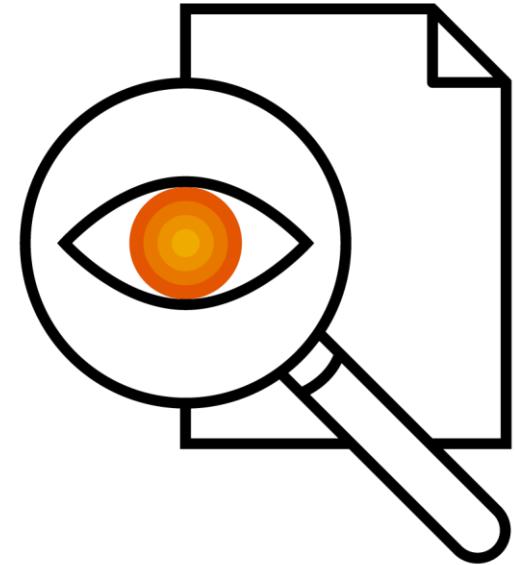
Summary of monitoring

- Use Monitoring tab to:
 - watch how your system is running
 - measure system use
 - watch out for problems



Summary of import and deployment in SAP Intelligent Robotic Process Automation Factory

- Import projects from SAP Intelligent RPA Desktop Studio
- Create hierarchies, variables, and environments to set where automations run
- Deploy packages and create triggers to set when automations run
- Use the Monitoring tab to watch your system



Thank you.

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