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000-874

IBM

Workflow and Automation Package Design and Development for V3.1 Implementation

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QUESTION: 1

The customer wants to install a new application in IBM Tivoli Intelligent Orchestrator. The application consists of three vendor-provided files. One file is an RPM, which installs a custom Linux install utility called RAR. The other two files are packaged in the RAR format. The package names are:

UNRAR.RPM

RegisterClient.RAR

DownloadClientCode.RAR

After installation the RegisterClient application needs a 10-minute delay in order to contact the Client server. The customer wants the application to be installed via their existing end-to-end workflow, which uses SoftwareModule.Install LDO. Which two SoftwareInstallable.Install workflows would implement the customer's request? (Choose two.)

- A. workflow Install_UNRAR (SoftwareID, DeviceID, SoftwareResourceTemplateID) implements SoftwareInstallable.Install
- B. workflow Install_RAR_package (SoftwareID, DeviceID, SoftwareResourceTemplateID) implements SoftwareInstallable.Install
- C. workflow Install_RPM_package (SoftwareID, DeviceID, SoftwareResourceTemplateID) implements SoftwareInstallable.Install
- D. workflow Install_RegisterClient (SoftwareID, DeviceID, SoftwareResourceTemplateID) implements SoftwareInstallable.Install
- E. workflow Install_DownloadClientCode (SoftwareID, DeviceID, SoftwareResourceTemplateID) implements SoftwareInstallable.Install

Answer: B, C

QUESTION: 2

Click the Exhibit button.

Workflow execution fails. The error message is shown in the exhibit. What is the most likely cause of the problem?



- A. No device driver has been associated with the target server.
- B. No device driver has been associated with a service access point used by the workflow.
- C. No service access point has been defined for the execute-command function on the target server.

D. The workflow is referencing the Device.CopyFile logical operation instead of the Device.ExecuteCommand logical operation.

Answer: B

QUESTION: 3

An automation package has been downloaded from the IBM On Demand Automation Catalog, and some customizations have been made to the package contents, by the automation team. The automation team has not told you which customizations have been made, and they now ask you to install this package using the Automation Package Manager command line utility. You run the Automation Package Manager command line utility and this succeeds with no error messages reported. However, during your testing of this automation package, you note that you are missing workflows, which are mentioned in the Automation Package documentation, which you downloaded from the IBM website. Also, some workflows are failing with errors saying the shell scripts are not found in the \$TIO_HOME/bin directory. Which reasons would explain this situation? Choose two answers.

- A. The wrong user id and password were specified when you ran the Automation Package Manager command line utility.
- B. The workflows are missing and some workflows are failing as entries with the <item> tag have been removed from <items> section in the manifest file contained in the Automation Package.
- C. You forgot to manually extract the files with an extension of .wkf in the Automation Package, and copy them into the \$TIO_HOME/drivers directory.
- D. You forgot to manually extract the shell scripts in the Automation Package, and copy them into the \$TIO_HOME/config directory.
- E. Whilst you are running your tests, the automation team has removed some of the shell scripts required by the Automation Package from the \$TIO_HOME/bin directory.

Answer: B, E

QUESTION: 4

A target server has a Host SSH SAP with an RSA credential. The RSA credential has "dbadmin" as the search key and "db2inst1" as the username. Which of the following is a true statement about the username for the credential on the corresponding client SAP?

- A. The username must be "dbadmin"
- B. The username must be "db2inst1"
- C. The username must be "tioadmin"
- D. The username does not matter

Answer: D

QUESTION: 5

What are the valid states for a workflow execution request?

- A. Successful, Failed, In Progress, Created

- B. Success, Failed, Running, Created, Canceled
- C. Completed, Failed, In Progress, Created, Canceled
- D. Successful, Failed, In Progress, Created, Canceled

Answer: D

QUESTION: 6

A customer wants two AIX V5.2 images created and set up in IBM Tivoli Intelligent Orchestrator (TIO) with the following specifications:

Operating System Name	Description
AIX V5.2 Normal	SSH daemon installed. RSA credentials for root user with root login enabled
AIX V5.2 High Security	SSH daemon installed. RSA credentials for non-root user with root login disabled.

Access to administrative commands will be done through sudo. They want the new images to be used in application deployments in their current TIO installation, which does not contain any third-party TCDRIVERS. What is sudo? Which three types of workflows must be implemented to enable the AIX V5.2 High Security OS image to be used by the customer to deploy an application using the given workflow? (Choose three.)

- > Sudo is a command that allows users defined in the /etc/sudoers configuration file to have temporary root access to run certain privileged commands.
- > The command to be run first must begin with the word "sudo" followed by the regular command syntax.
- > When running the command, the user is prompted for his regular password before it is executed. The user may run other privileged commands using sudo within a five-minute period without being re-prompted for a password.
- > All commands that run as sudo are logged in the log file /var/log/messages.

Customers workflow:

```

=====
workflow Add_Server(in ClusterID, inout ServerID) implements Cluster.AddServer
  CheckDeviceLocale ClusterID "en_US"
  var Protocol = "TCP"
  var Deployment_Request_ID
  var Port_Number
  var Load_Balancer_ID
  var Switch_ID
  var Managed_Network_Interface_ID
  var Cluster_IP_Address
  var Software_Stack_ID
  var Port_Module
  var NIC_ID
  var True = "true"
  var Out_TCP_Port
  var Subnetwork_ID
  var Virtual_IP_ID
  var Pool_ID
  var RIPMaxConnections = "1000"
  var Pool_VLAN_ID
  var Cluster_VLAN_ID
  var Weight = "1"
  var portID
  var serverName = DCMQuery(/server[@id=$ServerID\]/@name)
  try

java:com.thinkdynamics.kanaha.de.javaplugin.GetCurrentDeploymentRequestId(Deployment_Request_ID)

Virtual_IP_ID = DCMQuery(/cluster[@id=$ClusterID\]/virtualip/@id)
Pool_ID = DCMQuery(/cluster[@id=$ClusterID\]/@poolid)
Load_Balancer_ID = DCMQuery(/virtualip[@id=$Virtual_IP_ID\]/loadbalancer/@id)
Cluster_VLAN_ID = DCMQuery(/cluster[@id=$ClusterID\]/servertemplate/nictemplate/@vlanid)
Pool_VLAN_ID = DCMQuery(/sparepool[@id=$Pool_ID\]/servertemplate/nictemplate/@vlanid)
Subnetwork_ID = DCMQuery(/vlan[@id=$Pool_VLAN_ID\]/nictemplate/networkinterfacetemplate/@subnetid)

java:com.thinkdynamics.kanaha.de.javaplugin.resource manager.RMAllocateServer(ClusterID, Pool_ID,
Deployment_Request_ID, ServerID)

NIC_ID = DCMQuery(/server[@id=$ServerID\]/nic/@id)
portID = DCMQuery(/nic[@id=$NIC_ID\]/switchport/@id)
Port_Number = DCMQuery(/switchport[@id=$portID\]/@portnumber)
Switch_ID = DCMQuery(/switchport[@id=$portID\]/switch/@id)
Port_Module = DCMQuery(/switchport[@id=$portID\]/@module name)

java:com.thinkdynamics.kanaha.de.javaplugin.datacentermodel.FindDeviceSoftwareStack(ClusterID,
Software_Stack_ID)
java:com.thinkdynamics.kanaha.de.javaplugin.resource manager.RMAllocateIPAddress(Cluster_IP_Address,
NIC_ID, Subnetwork_ID)
IPSystem.AddNetworkInterface(ServerID, NIC_ID, Subnetwork_ID, <null>, Cluster_IP_Address, <null>, True)

Managed_Network_Interface_ID = DCMQuery(/server[@id=$ServerID\]/networkinterface[@managed="Y"]/@id)

IPSystem.ApplyRoutingTable(ServerID, ClusterID, Managed_Network_Interface_ID, True)
Switch.MovePortToVLAN(Switch_ID, Pool_VLAN_ID, Cluster_VLAN_ID, Port_Module, Port_Number)
Device.Ping(ServerID, Cluster_IP_Address, "30", "default", <null>)

SoftwareModule.Install(Software_Stack_ID, "null", ServerID, "null", "null")

Out_TCP_Port = DCMQuery(/virtualip[@id=$Virtual_IP_ID\]/@defaultoutputtcpport)

LoadBalancer.AddRealIPToVirtualIP(Load_Balancer_ID, Managed_Network_Interface_ID, Out_TCP_Port, Protocol,

```

- A. SoftwareModule.Install workflow
- B. Switch.MovePortToVLAN workflow
- C. IPSystem.Add IP Address workflow
- D. IPSystem.Apply Routing Table workflow
- E. LoadBalancer.AddRealIPToVirtualIP workflow
- F. any specific SoftwareInstallable.Install workflows that are executed directly on the target machine and require root access

Answer: C, D, F

QUESTION: 7

Which of the following constructs allow for the section of code represented by the ellipse (? to be repeated)? (Choose two.)

- A. foreach var in (array) do?done
- B. do until (condition) done
- C. while (condition) doone
- D. for(condition) do... done
- E. while (condition) loop

Answer: A, C

QUESTION: 8

The customer has two resource pools and one application that currently uses both resource pools. How would you define a new application tier for the existing application?

- A. define a new application, define a new application tier, associate tier with a resource pool
- B. define a new resource pool, associate a server template with resource pool, define a new application tier
- C. define a new application tier, associate tier with a resource pool, associate workflows for application tier, and associate server template with application tier
- D. define a new application tier, associate tier with both resource pools, associate workflows for application tier, and associate server template with application tier

Answer: C

QUESTION: 9

You want to write a simple workflow to delete all access rules associated with the ACL named "test" using the DCMAccess constructs. Which string would you include in the workflow?

- A. foreach rule in DCMQuery (/acl[@name="test"]/accessRule) do
ACMDelete(/acl[@name=\$rule]) done
- B. DCMDelete(/acl[@name="test"]/accessRule/@id="*")
- C. DCMDelete(/acl[@name="test"]/accessRule/@id="*")
- D. foreach rule in DCMQuery (/acl[@name="test"]/accessRule)
doACMDelete(/accessRule[@id=\$rule]) done

Answer: D

QUESTION: 10

The following is the contents of a file called myWorkflow.wkf:

```
workflow Gees_Workflow LocaleInsensitive
```

```
var vlan1 = "786"
```

```
var vlan2 = "787"
```

```
var subnet1 = "194.168.786.86" var subnet2 = "194.168.787.87" var netmask = "255.255.255.192" DCMIInsert <<EOINSERT
```

```
<subnetwork ipaddress="$subnet1" netmask="$netmask">
```

```
<vlan vlan-number="$vlan1" fabric="Default Fabric"/>
```

```
</subnetwork>
```

```
EOINSERT DCMIInsert <<EOINSERT
```

```
<subnetwork ipaddress="$subnet2" netmask="$netmask">
```

```
<vlan vlan-number="$vlan2" fabric="Default Fabric"/>
```

```
</subnetwork>
```

```
EOINSERT DCMIInsert <<EOINSERT
```

```
<switch name="gee-sw1" is-device-model="Cisco 3548" fabric="Default Fabric"
```

```
locale="en_US">
```

```
<switch-module name="0">
```

```
<switch-port vlan="$vlan1" port-number="24"/>
```

```
<switch-port vlan="$vlan2" port-number="19"/>
```

```
</switch-module>
```

```
</switch>
```

```
EOINSERT
```

When this workflow file is imported, compiled, and executed, which statement is true?

- A. The Workflow Execution succeeds.
- B. The Workflow Execution fails because multiple subnets cannot be defined in the same workflow.
- C. The Workflow Execution fails because a subnet and switch cannot be defined in the same workflow.
- D. The Workflow Execution succeeds, but a warning is displayed because OINSERT is a reserved deployment engine keyword.

Answer: A

QUESTION: 11

What is a valid argument to the Automation Package (tcdriver) Manager?

- A. forceDriver
- B. listDeviceModels
- C. listDeviceDrivers
- D. listInstalledModels



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