IBM Development and Test Environment Services (ITDES) Automation Pack for IBM UrbanCode Deploy

Introduction

[IBM Development and Test Environment Services (IDTES)](.) is a self-service cloud that makes it easy for you to create development and test environments on demand within minutes. An environment can be as simple as a client application running on a single VM or as complex as a multi-component distributed application running on multiple VMs across multiple networks. IDTES makes it easy for you to set up these environments and save them off as "golden" templates. These templates in turn can be used to create clones of the environment, as many as needed, to run your test suites for unit testing, functional testing, integration testing, stress/performance testing or user acceptance testing.

The IDTES Automation Pack for IBM UrbanCode Deploy provides a set of pre-packaged IDTES actions for use in configuring an IBM UrbanCode Deploy workflow. These pre-packaged IDTES actions provide you with actions that are commonly needed in provisioning environment resources for use in an IBM UrbanCode Deploy workflow.

Specifically, the IDTES Step Actions provided in the IDTES Automation Pack are as follows:

- IDTES Authentication
- Add Environment to Project
- Add Template to Environment
- Add Template to Project
- Add VM from Template to Environment
- Bind Dynamic Agent to Component
- Change Environment State
- Change VM State
- Connect to Network in another Environment (ICNR)
- Connect to VPN Tunnel
- Create Environment from Template
- Create Published Service for VM
- Create Published URL for Environment
- Create Template from Environment
- Delete Environment
- Delete VM from Enviornment
- Get VM ID
- List Published URL for Environment

- List Published Service for VM
- Set VM User Data

Each of these IDTES Step Actions is described in detail in this document.

Installation of the IDTES Automation Pack for IBM UrbanCode Deploy

You can install the IDTES Automation Pack for IBM UrbanCode Deploy directly from the IBM UrbanCode Deploy Web UI by navigating to the Settings->Automation Plugins page.
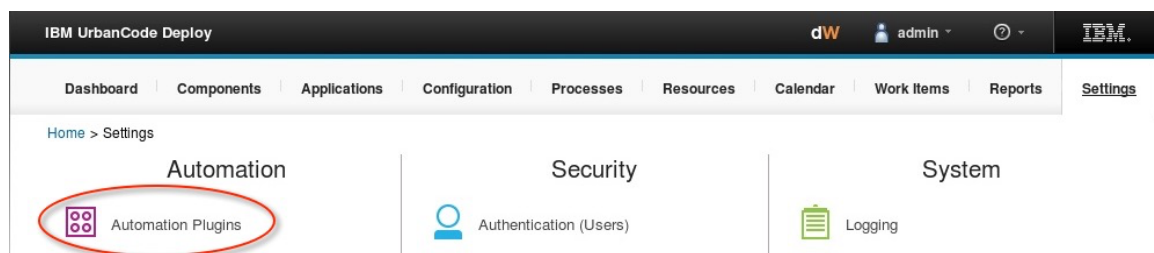
Once there, click, the "Load Plugin" button

Browse for the IDTES Plugin for IBM UrbanCode Deploy zip file and then click the "Submit" button

Once successfully loaded into IBM UrbanCode Deploy the IDTES Automation Pack for IBM UrbanCode Deploy will be visible in the list of Automation Plugins:

The IDTES Action Steps implemented by the IDTES Automation Pack for IBM UrbanCode Deploy will be available in the "Step Palette" panel in IBM UrbanCode Deploy process design pages:

Step Palette

▼ 📁 Cloud

   ▼ 📁 IDTES

- ⊞ Add Environment to Project
- ⊞ Add Template to Environment
- ⊞ Add Template to Project
- ⊞ Add VM from Template to Environment
- ⚙ Bind Dynamic Agent to Component
- ✏ Change Environment State
- ✏ Change VM State
- ⚙ Connect to Network in another Environment (ICNR)
- ⚙ Connect to VPN Tunnel
- ⊕ Create Environment from Template
- ⊕ Create Published Service for VM
- ⊕ Create Published URL for Environment
- ⊕ Create Template from Environment
- 🗑 Delete Environment
- 🗑 Delete VM from Environment
- 🔍 Get VM ID
- ⚙ IDTES Authentication
- ⚙ List Published Service for VM
- ⚙ List Published URL for Environment
- ☑ Set VM User Data

Depending on which action you select you will be presented with a set of input properties to specify in order to enable execution of the IDTES Action Step. The specific input properties that are required differ depending on which IDTES Action step you select. These properties are described below in the discussion of individual IDTES Actions.

IDTES Action Steps for IBM UrbanCode Deploy

IDTES Authentication

To use the IDTES Automation Pack for IBM UrbanCode Deploy you must first be able to authenticate with IDTES. This authentication requires a IDTES user ID and an API Token. This is needed so that the plugin can make API calls on your behalf to manage resources in your account on IDTES. Assuming you already have a IDTES account, you can retrieve your API Token in your IDTES Account Settings:

Once you have your security token, you will need to enter it along with your IDTES User ID in the IDTES Authentication action in your IBM UrbanCode Deploy workflow. Using the IDTES Authentication action step allows you to specify authentication credentials that can be inherited by subsequent IDTES action steps in your workflow.

Edit Properties

Field	Value
Name *	IDTES Authentication
Username *	
Authentication Key *	
Working Directory	
Post Processing Script	Step Default ▾ New
Precondition	
Use Impersonation	☐
Show Hidden Properties	☐

OK   Cancel

Input Properties

Username
Your IDTES user ID

Authentication Key
Your IDTES API Security Token

Output Properties
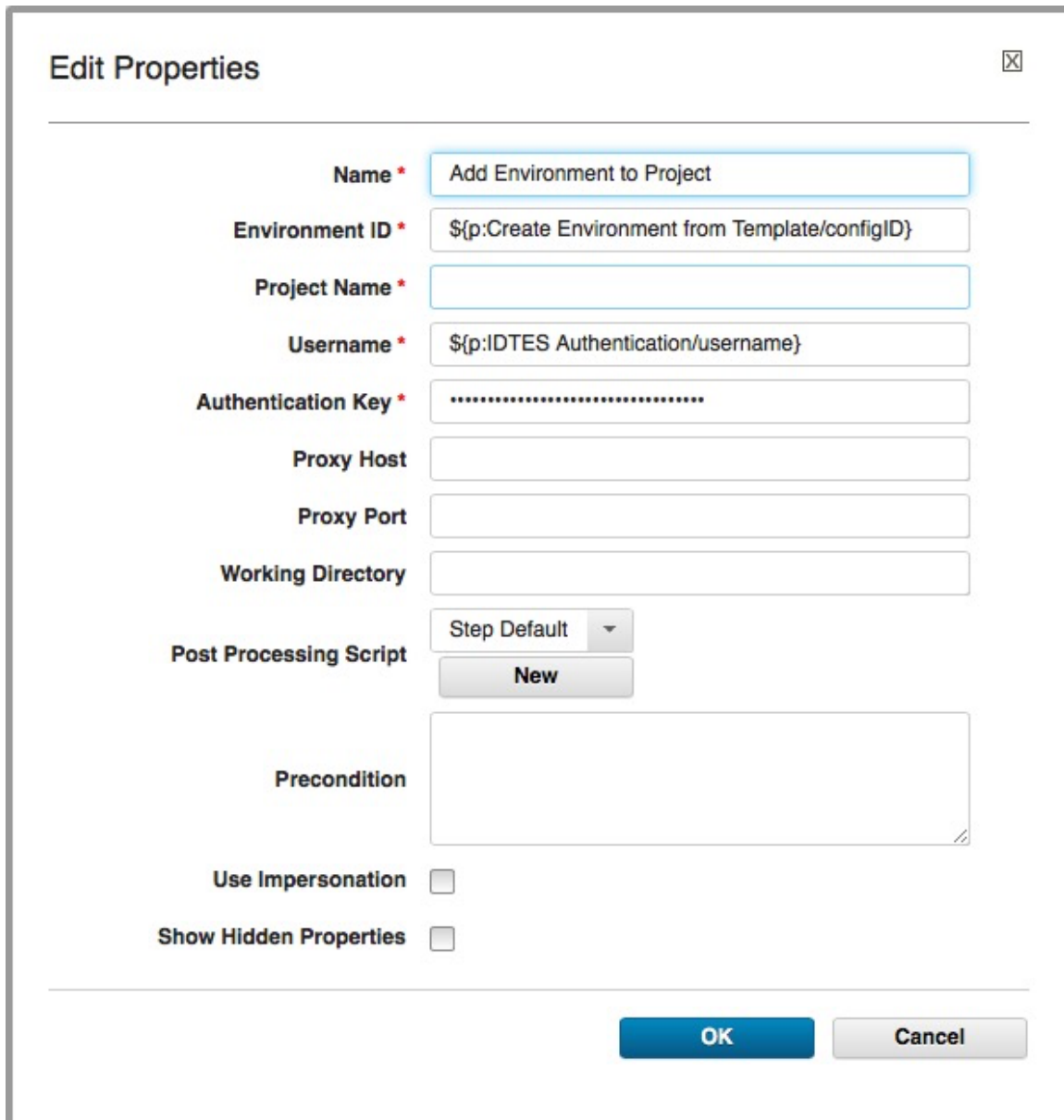
Username
Your IDTES user ID is available as an output property to this IDTES action step that can be used in subsequent IDTES action steps

Authentication Key
Your IDTES API Security Token is available as an output property to this IDTES action step that can be used in subsequent IDTES action steps

Add Environment to Project

This IDTES action step allows you to specify a IDTES Environment to add to a IDTES Project.

Input Properties

Environment ID

The ID of the IDTES Environment to be added to the specified IDTES Project.

You can specify a specific IDTES Environment ID (an integer), if one is known. If the environment was created using a "Create Environment from

Template" IDTES step action, you can specify the IDTES environment by specifying the "configID" output property from the appropriate "Create Environment from Template" IDTES action step.

The default value for this property is the "configID" output property from the IDTES action step titled "Create Environment from Template"

Project Name
The IDTES Project Name to which the specified environment is to be added.

If there is more than one IDTES Project with the specified name (not recommended), the last IDTES Project with the specified name that is encountered in the meta data project list will be used.

Username
Your IDTES User ID

The default value for this property is the "username" property from the IDTES action step titled "IDTES Authentication".

Authentication Key
Your IDTES API Security Token

The default value for this property is the "password" property from the IDTES action step titled "IDTES Authentication".

Proxy Host
The optional name of the proxy to use to connect to Skytap Cloud

Proxy Port
The optional proxy port on the above proxy host to use to connect to Skytap Cloud

Output Properties
None

Add Template to Environment
The Virtual Machines contained in the IDTES Template identified by the specified IDTES Template ID are added to the IDTES Environment identified by the specified IDTES Environment ID.

Edit Properties

Name *	Add Template to Project
Template ID *	${p:Create Template from Environment/templateID}
Project Name *	
Username *	${p:IDTES Authentication/username}
Authentication Key *	••••••••••••••••••••••••••••••
Proxy Host	
Proxy Port	
Working Directory	
Post Processing Script	Step Default ▾
	New
Precondition	
Use Impersonation	☐
Show Hidden Properties	☐

OK   **Cancel**

Parameters

Template ID

The ID of the IDTES Template that contains the VM definitions to be added to the specified IDTES Environment.

You can specify a specific IDTES Template ID (an integer), if one is known. If the template was created using a "Create Template from Environment" IDTES step action, you can specify the IDTES template by specifying the "templateID" output property from the appropriate "Create Template from Environment" IDTES action step.

The default value for this property is the "templateID" output property from the IDTES action step titled "Create Template from Environment"

Environment ID

The ID of the IDTES Environment to which the VMs in the specified IDTES Template are to be added.

You can specify a specific IDTES Environment ID (an integer), if one is known. If the environment was created using a "Create Environment from Template" IDTES step action, you can specify the IDTES environment by specifying the "configID" output property from the appropriate "Create Environment from Template" IDTES action step.

The default value for this property is the "configID" output property from the IDTES action step titled "Create Environment from Template"

Username

Your IDTES User ID

The default value for this property is the "username" property from the IDTES action step titled "IDTES Authentication".

Authentication Key

Your IDTES API Security Token

The default value for this property is the "password" property from the IDTES action step titled "IDTES Authentication".

Proxy Host

The optional name of the proxy to use to connect to Skytap Cloud

Proxy Port

The optional proxy port on the above proxy host to use to connect to Skytap Cloud

Output Properties

None

Add Template to Project

This IDTES action step allows you to specify a IDTES Template to add to a IDTES Project.

Input Properties

Template ID

The ID of the IDTES Template that is to be added to the specified IDTES Project.

You can specify a specific IDTES Template ID (an integer), if one is known. If the template was created using a "Create Template from Environment" IDTES step action, you can specify the IDTES template by specifying the "templateID" output property from the appropriate "Create Template from Environment" IDTES action step.

The default value for this property is the "templateID" output property from the IDTES action step titled "Create Template from Environment"

Project Name

The IDTES Project Name to which the specified template is to be added.

If there is more than one IDTES Project with the specified name (not recommended), the last IDTES Project with the specified name that is encountered in the meta data project list will be used.

Username

Your IDTES User ID

The default value for this property is the "username" property from the IDTES action step titled "IDTES Authentication".

Authentication Key

Your IDTES API Security Token

The default value for this property is the "password" property from the IDTES action step titled "IDTES Authentication".

Proxy Host

The optional name of the proxy to use to connect to Skytap Cloud

Proxy Port

The optional proxy port on the above proxy host to use to connect to Skytap Cloud

Output Properties

None

Add VM from Template to Environment

The specified Virtual Machine contained in the IDTES Template identified by the specified IDTES Template ID is added to the IDTES Environment identified by the specified IDTES Environment ID.

Edit Properties ☒

Field	Value
Name *	Add VM from Template to Environment
Template ID *	${p:Create Template from Environment/templateID}
VM name or ID *	
New VM Name	
Environment ID *	${p:Create Environment from Template/configID}
Username *	${p:IDTES Authentication/username}
Authentication Key *	••••••••••••••••••••••••••••••
Proxy Host	
Proxy Port	
Working Directory	
Post Processing Script	Step Default ▾ New
Precondition	
Use Impersonation	☐
Show Hidden Properties	☐

OK   **Cancel**

Parameters

Template ID

The ID of the IDTES Template that contains the VM definitions to be added to the specified IDTES Environment.

You can specify a specific IDTES Template ID (an integer), if one is known. If the template was created using a "Create Template from Environment" IDTES step action, you can specify the IDTES template by

specifying the "templateID" output property from the appropriate "Create Template from Environment" IDTES action step.

The default value for this property is the "templateID" output property from the IDTES action step titled "Create Template from Environment"

VM name or ID
The name or numerical ID (an integer) of the virtual machine contained in the specified IDTES template.

New VM Name
A name to assign to the new VM after it has been added to the specified IDTES template. If no name is provided, the name of the new VM will be the same as it's name in the originating template.

Environment ID
The ID of the IDTES Environment to which the specified VM in the specified IDTES Template are to be added.

You can specify a specific IDTES Environment ID (an integer), if one is known. If the environment was created using a "Create Environment from Template" IDTES step action, you can specify the IDTES environment by specifying the "configID" output property from the appropriate "Create Environment from Template" IDTES action step.

The default value for this property is the "configID" output property from the IDTES action step titled "Create Environment from Template"

Username
Your IDTES User ID

The default value for this property is the "username" property from the IDTES action step titled "IDTES Authentication".

Authentication Key
Your IDTES API Security Token

The default value for this property is the "password" property from the IDTES action step titled "IDTES Authentication".

Proxy Host
The optional name of the proxy to use to connect to Skytap Cloud

Proxy Port
The optional proxy port on the above proxy host to use to connect to Skytap Cloud

vmID

The numeric ID (an integer) of the VM added to the specified IDTES environment.

Bind Dynamic Agent to Component

This step interacts with IBM UrbanCode Deploy to do the following:

1. Associate an IBM UrbanCode Deploy agent with an already-created Top-Level Group resource.
2. Add an IBM UrbanCode Deploy component to the agent that was added to the Top-Level Group

Edit Properties ☒

Name *	Bind Dynamic Agent to Component
Server URL *	http://localhost:8080
UCD Top Level Group *	
UCD Agent Name *	
UCD Component Name *	
Working Directory	
Post Processing Script	Step Default ▾ New
Precondition	
Use Impersonation	☐
Show Hidden Properties	☐

OK   Cancel

Parameters

Server URL

The URL to the IBM UrbanCode Deploy server.

UCD Top Level Group

The name of the IBM UrbanCode Deploy Top-Level Group resource to which to associate the specified agent.

UCD Agent Name

The name of the IBM UrbanCode Deploy agent to associate with the specified Top-Level Group resource

UCD Component Name
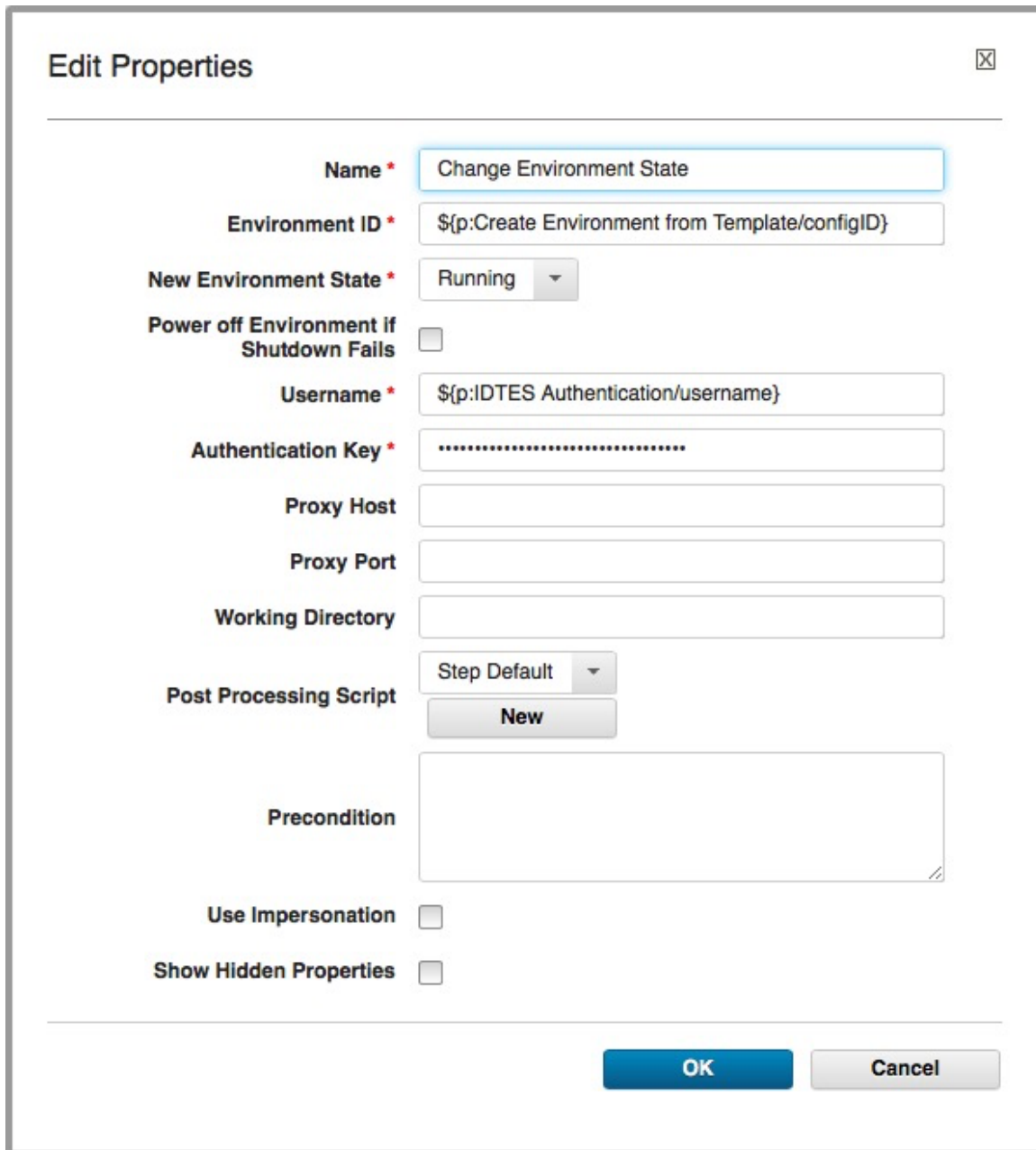
The name of the IBM UrbanCode Deploy component to add to the specified Agent.

Output Parameters

None

Change Environment State

This IDTES action step allows you to specify a state to which the specified environment is to be transitioned.

Input Properties

Environment ID

The Environment ID of the IDTES Environment for which a state change is to be executed.

You can specify a specific IDTES Environment ID (an integer), if one is

known. If the environment was created using a "Create Environment from Template" IDTES step action, you can specify the IDTES environment by specifying the "configID" output property from the appropriate "Create Environment from Template" IDTES action step.

The default value for this property is the "configID" output property from the IDTES action step titled "Create Environment from Template"

New Environment State
The state to which the specified IDTES Environment is to be transitioned. Choices are "Running", "Suspended", and Shutdown".

Power off Environment if Shutdown Fails
The "Power off Environment if Shutdown Fails" checkbox serves as a failsafe if a environment fails to shutdown. If this checkbox is checked, and the specified IDTES Environment fails to shutdown after a period of 5 minutes, the specified IDTES Environment will be forcefully shutdown or "powered off". This is equivalent to clicking the "Power off this machine" button in the IDTES Web GUI.

Username
Your IDTES User ID

The default value for this property is the "username" property from the IDTES action step titled "IDTES Authentication".

Authentication Key
Your IDTES API Security Token

The default value for this property is the "password" property from the IDTES action step titled "IDTES Authentication".

Proxy Host
The optional name of the proxy to use to connect to Skytap Cloud

Proxy Port

The optional proxy port on the above proxy host to use to connect to Skytap Cloud

Output Properties

None

Change VM State

This IDTES action step allows you to specify a state to which the specified environment is to be transitioned.

Input Properties

Environment ID

The Environment ID of the IDTES Environment that contains the virtual machine for which a state change is to be executed.

You can specify a specific IDTES Environment ID (an integer), if one is known. If the environment was created using a "Create Environment from Template" IDTES step action, you can specify the IDTES environment by specifying the "configID" output property from the appropriate "Create Environment from Template" IDTES action step.

The default value for this property is the "configID" output property from the IDTES action step titled "Create Environment from Template"

VM Name or ID
The name or numerical ID (an integer) of the virtual machine contained in the specified IDTES template

New VM State
The state to which the specified IDTES virtual machine is to be transitioned. Choices are "Running", "Suspended", and Shutdown".

Power off VM if Shutdown Fails
The "Power off Environment if Shutdown Fails" checkbox serves as a failsafe if a environment fails to shutdown. If this checkbox is checked, and the specified IDTES virtual machine fails to shutdown after a period of 5 minutes, the specified IDTES virtual machine will be forcefully shutdown or "powered off". This is equivalent to clicking the "Power off this machine" button in the IDTES Web GUI.

Username
Your IDTES User ID

The default value for this property is the "username" property from the IDTES action step titled "IDTES Authentication".

Authentication Key
Your IDTES API Security Token

The default value for this property is the "password" property from the

IDTES action step titled "IDTES Authentication".

Proxy Host
The optional name of the proxy to use to connect to Skytap Cloud

Proxy Port
The optional proxy port on the above proxy host to use to connect to Skytap Cloud

Output Properties
None

Connect to Network in another Environment (ICNR)
When this IDTES action step is selected, the specified networks in the two specified environments will be connected using the Internal Environment Network Routing (ICNR) protocol. This feature is useful during testing, where one or more test environments need to access a central resource, like a database or Active Directory server. The network subnets in the two environments must already be configured to allow an ICNR connection to occur. You can read more about ICNR in the IDTES Help Documentation.

Edit Properties ☒

Name *	Connect to Network in another Environment (ICNR)
Source Environment ID *	
Source Network Name *	
Target Environment ID *	${p:Create Environment from Template/configID}
Target Network Name *	
Username *	${p:IDTES Authentication/username}
Authentication Key *	••••••••••••••••••••••••••••••
Proxy Host	
Proxy Port	
Working Directory	
Post Processing Script	Step Default ▼ New
Precondition	
Use Impersonation	☐
Show Hidden Properties	☐

OK   **Cancel**

Input Properties

Source Environment ID

The ID of the Source Environment to use in the ICNR connection attempt.

You can specify a specific IDTES Environment ID (an integer), if one is known. If the environment was created using a "Create Environment from Template" IDTES step action, you can specify the IDTES environment by specifying the "configID" output property from the appropriate "Create

Environment from Template" IDTES action step.

Source Network Name

The name of the network in the Source Environment to use in the ICNR connection attempt.

If there is more than one network in the environment with the specified name (not recommended), the last network encountered with the specified name in the meta data associated with the environment will be used.

Target Environment ID

The ID of the Target Environment to use in the ICNR connection attempt.

You can specify a specific IDTES Environment ID (an integer), if one is known. If the environment was created using a "Create Environment from Template" IDTES step action, you can specify the IDTES environment by specifying the "configID" output property from the appropriate "Create Environment from Template" IDTES action step.

The default value for this property is the "configID" output property from the IDTES action step titled "Create Environment from Template"

Target Network Name

The name of the network in the Source Environment to use in the ICNR connection attempt.

If there is more than one network in the environment with the specified name (not recommended), the last network encountered with the specified name in the meta data associated with the environment will be used.

The network in the Target Network Name must be configured to be visible to other networks.

Username
Your IDTES User ID

The default value for this property is the "username" property from the IDTES action step titled "IDTES Authentication".

Authentication Key
Your IDTES API Security Token

The default value for this property is the "password" property from the IDTES action step titled "IDTES Authentication".

Proxy Host
The optional name of the proxy to use to connect to Skytap Cloud

Proxy Port
The optional proxy port on the above proxy host to use to connect to Skytap Cloud

Output Properties
None

Connect to VPN Tunnel
When this IDTES step action is selected, the specified IDTES VPN definition will be connected to the specified network in the specified IDTES Environment.

Edit Properties

Name *	Connect to VPN Tunnel
Environment ID *	${p:Create Environment from Template/configID}
Network Name *	
VPN ID *	
Username *	${p:IDTES Authentication/username}
Authentication Key *	••••••••••••••••••••••••••••
Proxy Host	
Proxy Port	
Working Directory	
Post Processing Script	Step Default ▾ New
Precondition	
Use Impersonation	☐
Show Hidden Properties	☐

OK   Cancel

Input Properties

Environment ID

The ID of the Source Environment to use in the VPN connection attempt.

You can specify a specific IDTES Environment ID (an integer), if one is known. If the environment was created using a "Create Environment from Template" IDTES step action, you can specify the IDTES environment by specifying the "configID" output property from the appropriate "Create Environment from Template" IDTES action step.
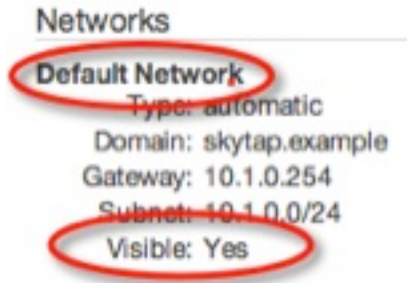
The default value for this property is the "configID" output property from the IDTES action step titled "Create Environment from Template"

Network Name

The name of the network in the specified environment to use in the VPN connection attempt.

If there is more than one network in the environment with the specified name (not recommended), the last network encountered with the specified name in the meta data associated with the environment will be used.

VPN ID

This parameter is the Integer ID of the IDTES VPN definition to which to connect the specified network in the environment.

Username

Your IDTES User ID

The default value for this property is the "username" property from the IDTES action step titled "IDTES Authentication".

Authentication Key

Your IDTES API Security Token

The default value for this property is the "password" property from the IDTES action step titled "IDTES Authentication".

Proxy Host

The optional name of the proxy to use to connect to Skytap Cloud

Proxy Port

The optional proxy port on the above proxy host to use to connect to Skytap Cloud

Output Properties

None

Create Environment from Template

This IDTES step action allows you to specify a IDTES Template from which to create a IDTES Environment.

Edit Properties ☒

Name *	Create Environment from Template
Template ID *	
Environment Name	
Username *	${p:IDTES Authentication/username}
Authentication Key *	••••••••••••••••••••••••••••••••
Proxy Host	
Proxy Port	
Working Directory	
Post Processing Script	Step Default ▾ New
Precondition	
Use Impersonation	☐
Show Hidden Properties	☐

OK   **Cancel**

Parameters

Template ID

The ID of the IDTES Template to use in creating a new IDTES Environment.

You can specify a specific IDTES Template ID (an integer), if one is

known. If the template was created using a "Create Template from Environment" IDTES step action, you can specify the IDTES template by specifying the "templateID" output property from the appropriate "Create Template from Environment" IDTES action step.

Environment Name
This parameter allows you to specify a name for the created environment.

Username
Your IDTES User ID

The default value for this property is the "username" property from the IDTES action step titled "IDTES Authentication".

Authentication Key
Your IDTES API Security Token

The default value for this property is the "password" property from the IDTES action step titled "IDTES Authentication".

Proxy Host
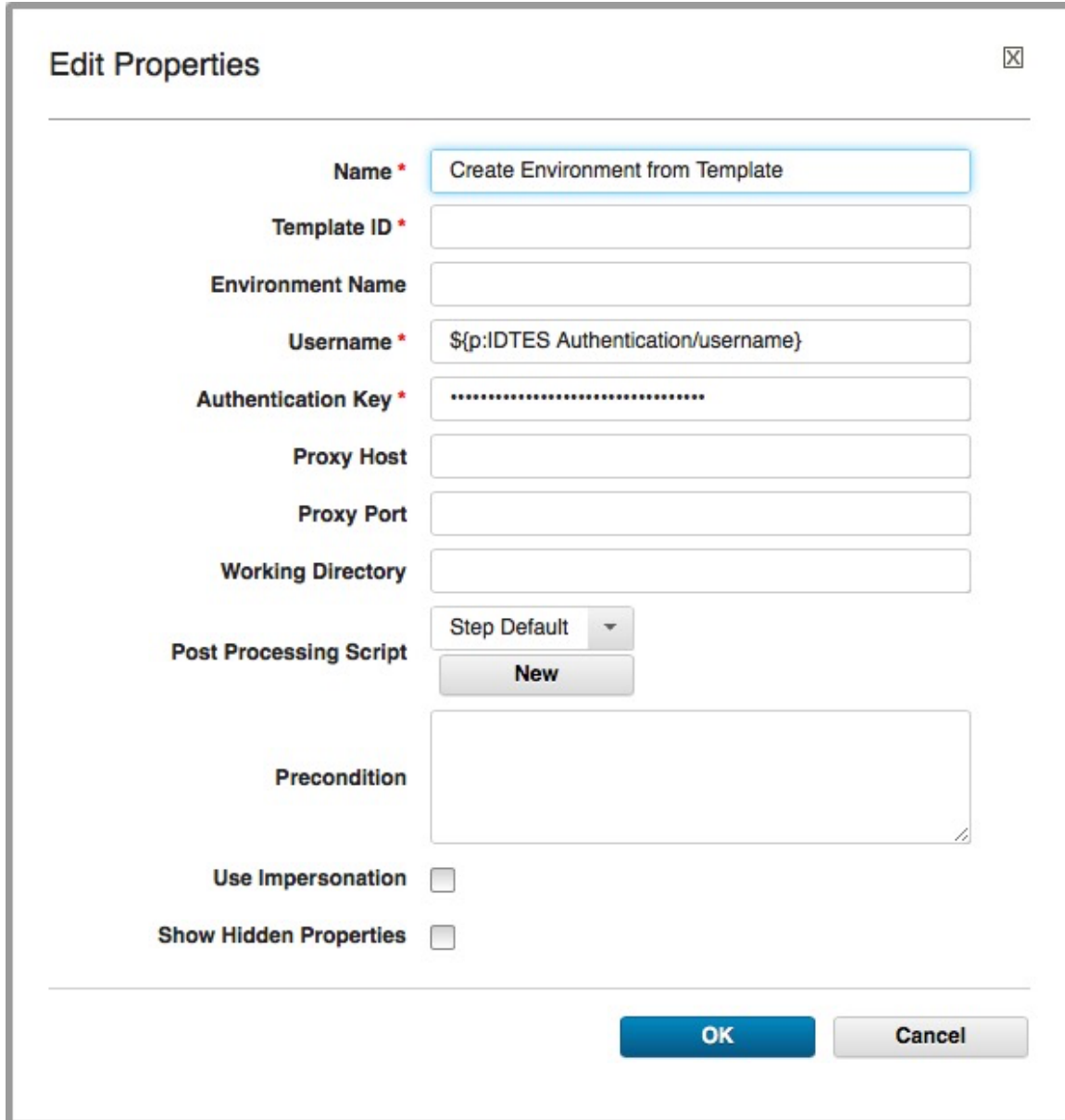The optional name of the proxy to use to connect to Skytap Cloud

Proxy Port
The optional proxy port on the above proxy host to use to connect to Skytap Cloud

Output Properties
configID

This property can then be used as input to subsequent IDTES step actions that require a IDTES Environment ID using the IBM UrbanCode Deploy ${p:Create Environment from Template/configID} property syntax.

Create Published Service for VM
When this IDTES step action is selected, a IDTES Published Service will be added to the port number specified by the "Port Number" parameter in the network with the name specified by the "Network Name" parameter in the virtual machine specified by "VM Name" parameter in the environment specified by the "Environment ID" property.

If the specified environment has more than one Virtual Machine with the name specified by the "Virtual Machine Name" parameter, the last Virtual Machine with the specified name that is listed in the environment metadata will be used.

If the specified environment has more than one network with the name specified by the "Network Name" parameter, the last network with the specified name that is listed in the environment metadata will be used.

The text of the published service and port in the form "public-URL:port-number" is saved in the "serviceAddress" output property.

Edit Properties

Name *	Create Published Service for VM
Environment ID *	${p:Create Environment from Template/configID}
VM Name *	
Network Name *	
Port Number *	
Username *	${p:IDTES Authentication/username}
Authentication Key *	••••••••••••••••••••••••••••••••
Proxy Host	
Proxy Port	
Working Directory	

Post Processing Script: Step Default ▾   New

Precondition: [   ]

Use Impersonation ☐
Show Hidden Properties ☐

OK   Cancel

Parameters

Environment ID

The ID of the environment containing the VM for which a IDTES Published Service is to be created.

You can specify a specific IDTES Environment ID (an integer), if one is known. If the environment was created using a "Create Environment from Template" IDTES step action, you can specify the IDTES environment by specifying the "configID" output property from the appropriate "Create Environment from Template" IDTES action step.

The default value for this property is the "configID" output property from the IDTES action step titled "Create Environment from Template"

VM Name

This parameter specifies the name of the Virtual Machine to which the Published Service is to be attached.

Note that if the specified environment has more than one VM with the same name, the last VM with that name that is encountered in the IDTES Environment metadata definition will be selected.

Network Name

This parameter specifies the Network to which the Published Service is to be attached.

Note that if the specified VM has more than one network with the same name, the last network with that name that is encountered in the IDTES Environment metadata definition will be selected.

Port Number

This parameter specifies the Port to which the Published Service will be connected.

Username

Your IDTES User ID

The default value for this property is the "username" property from the IDTES action step titled "IDTES Authentication".

Authentication Key

Your IDTES API Security Token

The default value for this property is the "password" property from the IDTES action step titled "IDTES Authentication".

Proxy Host

The optional name of the proxy to use to connect to Skytap Cloud

Proxy Port

The optional proxy port on the above proxy host to use to connect to Skytap Cloud

Output Properties
serviceAddress

The text of the public URL and port in the form "public-URL:port-number" is saved in the "serviceAddress" output property.

This property can then be used as input to subsequent IBM UrbanCode Deploy workflow steps.

Create Published URL for Environment

When this IDTES Action is selected, a IDTES Published URL will be created and associated with the specified Environment.

The text of the published service is saved in the "publishedURL" output property.

Edit Properties   ☒

Name *	Create Published URL for Environment
Environment ID *	${p:Create Environment from Template/configID}
Published URL Name *	
Published URL Permissions	View Only ▾
Published URL Password	
Username *	${p:IDTES Authentication/username}
Authentication Key *	••••••••••••••••••••••••••••••
Proxy Host	
Proxy Port	
Working Directory	
Post Processing Script	Step Default ▾ New
Precondition	
Use Impersonation	☐
Show Hidden Properties	☐

OK   Cancel

Parameters

Environment ID

The Environment ID of the IDTES Environment for which the Published URL is to be created.

You can specify a specific IDTES Environment ID (an integer), if one is known. If the environment was created using a "Create Environment from Template" IDTES step action, you can specify the IDTES environment by

specifying the "configID" output property from the appropriate "Create Environment from Template" IDTES action step.

The default value for this property is the "configID" output property from the IDTES action step titled "Create Environment from Template"

Published URL Name
The name to be associated with the Published URL.

Published URL Permissions
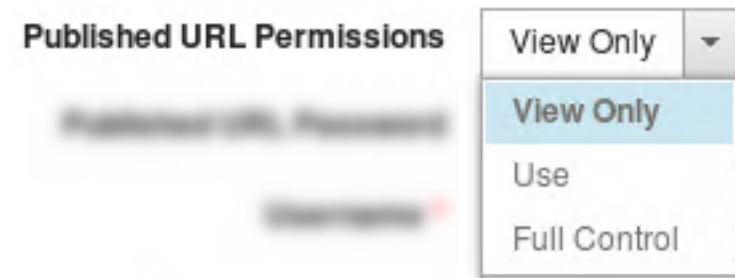
This dropdown list specifies the permissions associated with the Published URL that will be created. Possible values are "View Only", "Use", and "Full Control". The meaning of these permissions can be reviewed in the IDTES Help materials at this URL: IDTES Published URL Help

Published URL Password

If this property is specified, the value of this property will be assigned as a password that will be required before anyone using the created Published URL will be allowed to access the associated IDTES environment.

Username
Your IDTES User ID

The default value for this property is the "username" property from the IDTES action step titled "IDTES Authentication".

Authentication Key
Your IDTES API Security Token

The default value for this property is the "password" property from the IDTES action step titled "IDTES Authentication".

Proxy Host
The optional name of the proxy to use to connect to Skytap Cloud

Proxy Port

The optional proxy port on the above proxy host to use to connect to Skytap Cloud

Output Properties

publishedURL

The text of the published URL is saved in the "publishedURL" output property.

This property can then be used as input to subsequent IBM UrbanCode Deploy workflow steps.

Create Template from Environment

This IDTES Action allows you to create a IDTES Template from a specified IDTES Environment.

The ID of the created template is saved in the "templateID" output property.

Edit Properties

Name *	Create Template from Environment
Environment ID *	${p:Create Environment from Template/configID}
Template Name	
Username *	${p:IDTES Authentication/username}
Authentication Key *	••••••••••••••••••••••••••••••
Proxy Host	
Proxy Port	
Working Directory	
Post Processing Script	Step Default ▼ New
Precondition	
Use Impersonation	☐
Show Hidden Properties	☐

OK   **Cancel**

Parameters

Environment ID

The Environment ID of the IDTES Environment from which a new IDTES Template is to be created.

You can specify a specific IDTES Environment ID (an integer), if one is known. If the environment was created using a "Create Environment from Template" IDTES step action, you can specify the IDTES environment by specifying the "configID" output property from the appropriate "Create Environment from Template" IDTES action step.

The default value for this property is the "configID" output property from the IDTES action step titled "Create Environment from Template"

Template Name

This parameter allows you to specify a name for the created template.

Username

Your IDTES User ID

The default value for this property is the "username" property from the IDTES action step titled "IDTES Authentication".

Authentication Key

Your IDTES API Security Token

The default value for this property is the "password" property from the IDTES action step titled "IDTES Authentication".

Proxy Host

The optional name of the proxy to use to connect to Skytap Cloud

Proxy Port

The optional proxy port on the above proxy host to use to connect to Skytap Cloud

Output Properties

templateID

The template ID of the created IDTES Template is saved in the "templateID" output property.

This property can then be used as input to subsequent IBM UrbanCode Deploy workflow steps.

Delete Environment

This IDTES Action allows a user to delete the specified IDTES Environment.

Edit Properties ☒

Name *	Delete Environment
Environment ID *	${p:Create Environment from Template/configID}
Username *	${p:IDTES Authentication/username}
Authentication Key *	••••••••••••••••••••••••••••••
Proxy Host	
Proxy Port	
Working Directory	
Post Processing Script	Step Default ▾ New
Precondition	
Use Impersonation	☐
Show Hidden Properties	☐

OK   **Cancel**

Parameters

Environment ID

The ID of the IDTES Environment to delete.

You can specify a specific IDTES Environment ID (an integer), if one is known. If the environment was created using a "Create Environment from Template" IDTES step action, you can specify the IDTES environment by specifying the "configID" output property from the appropriate "Create Environment from Template" IDTES action step.

The default value for this property is the "configID" output property from the IDTES action step titled "Create Environment from Template"

Username

Your IDTES User ID

The default value for this property is the "username" property from the IDTES action step titled "IDTES Authentication".

Authentication Key

Your IDTES API Security Token

The default value for this property is the "password" property from the IDTES action step titled "IDTES Authentication".

Proxy Host

The optional name of the proxy to use to connect to Skytap Cloud

Proxy Port

The optional proxy port on the above proxy host to use to connect to Skytap Cloud

Output Properties

Delete VM from Environment

This IDTES Action allows a user to delete the specified IDTES virtual machine from the specified IDTES Environment.

Parameters

Environment ID

The ID of the IDTES Environment to delete.

You can specify a specific IDTES Environment ID (an integer), if one is known. If the environment was created using a "Create Environment from Template" IDTES step action, you can specify the IDTES environment by specifying the "configID" output property from the appropriate "Create Environment from Template" IDTES action step.

The default value for this property is the "configID" output property from the

IDTES action step titled "Create Environment from Template"

VM Name or ID
The name or numerical ID (an integer) of the virtual machine contained in the specified IDTES template

Username
Your IDTES User ID

The default value for this property is the "username" property from the IDTES action step titled "IDTES Authentication".

Authentication Key
Your IDTES API Security Token

The default value for this property is the "password" property from the IDTES action step titled "IDTES Authentication".

Proxy Host
The optional name of the proxy to use to connect to Skytap Cloud

Proxy Port
The optional proxy port on the above proxy host to use to connect to Skytap Cloud

Output Properties
none

Get VM ID
This IDTES Action allows a user to get the ID of a VM within a IDTES Environment.

Edit Properties   ☒

Name *	Get VM ID
Environment ID *	${p:Create Environment from Template/configID}
VM Name *	
Username *	${p:IDTES Authentication/username}
Authentication Key *	••••••••••••••••••••••••••••••
Proxy Host	
Proxy Port	
Working Directory	
Post Processing Script	Step Default ▾
	New
Precondition	
Use Impersonation	☐
Show Hidden Properties	☐

OK   Cancel

Parameters

Environment ID
The ID of the IDTES Environment that contains the desired VM.

You can specify a specific IDTES Environment ID (an integer), if one is known. If the environment was created using a "Create Environment from Template" IDTES step action, you can specify the IDTES environment by specifying the "configID" output property from the appropriate "Create Environment from Template" IDTES action step.

The default value for this property is the "configID" output property from the

IDTES action step titled "Create Environment from Template"

VM Name

This parameter specifies the name of the Virtual Machine for which the ID is to be retreived. Note that if the specified environment has more than one VM with the same name, the last VM with that name that is encountered in the IDTES Environment metadata definition will be selected.

Username

Your IDTES User ID

The default value for this property is the "username" property from the IDTES action step titled "IDTES Authentication".

Authentication Key

Your IDTES API Security Token

The default value for this property is the "password" property from the IDTES action step titled "IDTES Authentication".

Proxy Host

The optional name of the proxy to use to connect to Skytap Cloud

Proxy Port

The optional proxy port on the above proxy host to use to connect to Skytap Cloud

Output Properties

vmID

The ID of the specified VM is saved in the "vmID" output property.

This property can then be used as input to subsequent IBM UrbanCode Deploy workflow steps.

List Published Service for VM

The IDTES Published Service for the port specified in the "Port Number" parameter in the network with the name specified by the "Network Name" parameter in the virtual machine specified by the "VM Name" parameter in the environment specified by the "Environment ID" parameter is saved to the "serviceAddress" output property.

If the specified environment has more than one Virtual Machine with the

name specified by the "Virtual Machine Name" parameter, the last Virtual Machine with the specified name that is listed in the environment metadata will be used.

If the specified environment has more than one network with the name specified by the "Network Name" parameter, the last network with the specified name that is listed in the environment metadata will be used.

The text of the public URL and port in the form "public-URL:port-number" is saved in the "serviceAddress" output property.

Parameters

Environment ID

The ID of the IDTES Environment that contains the VM with the desired published service.

You can specify a specific IDTES Environment ID (an integer), if one is known. If the environment was created using a "Create Environment from

Template" IDTES step action, you can specify the IDTES environment by specifying the "configID" output property from the appropriate "Create Environment from Template" IDTES action step.

The default value for this property is the "configID" output property from the IDTES action step titled "Create Environment from Template"

VM Name
This property specifies the Virtual Machine to which the Published Service is to be attached.

Note that if the specified environment has more than one VM with the same name, the last VM with that name that is encountered in the IDTES Environment metadata definition will be selected.

Network Name
This parameter specifies the Network to which the Published Service is to be attached.

Note that if the specified VM has more than one network with the same name, the last network with that name that is encountered in the IDTES Environment metadata definition will be selected.

Port Number
This parameter specifies the Port to which the Published Service will be connected.

Username
Your IDTES User ID

The default value for this property is the "username" property from the IDTES action step titled "IDTES Authentication".

Authentication Key
Your IDTES API Security Token

The default value for this property is the "password" property from the IDTES action step titled "IDTES Authentication".

Proxy Host
The optional name of the proxy to use to connect to Skytap Cloud

Proxy Port
The optional proxy port on the above proxy host to use to connect to Skytap Cloud

serviceAddress

The text of the public URL and port in the form "public-URL:port-number" is saved in the "serviceAddress" output property.

This property can then be used as input to subsequent IBM UrbanCode Deploy workflow steps.

List Published URL for Environment

The environment desktops URL with the specified Published URL Name for the specified environment is saved in the "publishedURL" output property. Listing of published URLs for individual VMs in a environment are not supported.

Edit Properties ⌧

Name *	List Published URL for Environment
Environment ID *	${p:Create Environment from Template/configID}
Published URL Name *	
Username *	${p:IDTES Authentication/username}
Authentication Key *	••••••••••••••••••••••••••••
Proxy Host	
Proxy Port	
Working Directory	
Post Processing Script	Step Default ▾ New
Precondition	
Use Impersonation	☐
Show Hidden Properties	☐

OK   **Cancel**

Parameters

Environment ID

The ID of the IDTES Environment that contains the desired published URL.

You can specify a specific IDTES Environment ID (an integer), if one is known. If the environment was created using a "Create Environment from Template" IDTES step action, you can specify the IDTES environment by specifying the "configID" output property from the appropriate "Create Environment from Template" IDTES action step.

The default value for this property is the "configID" output property from the

IDTES action step titled "Create Environment from Template"

Published URL Name

This parameter specifies the name of the desired published URL.

If more than one published URL in the specified environment has the same name, the last URL encountered in the environment metadata will be selected.

Username

Your IDTES User ID

The default value for this property is the "username" property from the IDTES action step titled "IDTES Authentication".

Authentication Key

Your IDTES API Security Token

The default value for this property is the "password" property from the IDTES action step titled "IDTES Authentication".

Proxy Host

The optional name of the proxy to use to connect to Skytap Cloud

Proxy Port

The optional proxy port on the above proxy host to use to connect to Skytap Cloud

Output Properties

publishedURL

The text of the public URL is saved in the "publishedURL" output property.

This property can then be used as input to subsequent IBM UrbanCode Deploy workflow steps.

Set VM User Data

The VM User Data for the specified VM in the specified IDTES Environment is set to a new value. VM User Data is available via within a running VM by using a REST call to the IDTES Metadata Service. You can find out more about the IDTES Metadata Service in the IDTES Help Pages.

Edit Properties   ⊠

Name *	Set VM User Data
Environment ID *	${p:Create Environment from Template/configID}
VM Name *	
User Data String *	
Username *	${p:IDTES Authentication/username}
Authentication Key *	••••••••••••••••••••••••••••••••
Proxy Host	
Proxy Port	
Working Directory	

Post Processing Script
> Step Default ▾
>
> New

Precondition

Use Impersonation ☐

Show Hidden Properties ☐

OK   Cancel

Parameters

Environment ID

The ID of the IDTES Environment that contains the VM for which the User Data is to be set.

You can specify a specific IDTES Environment ID (an integer), if one is known. If the environment was created using a "Create Environment from Template" IDTES step action, you can specify the IDTES environment by specifying the "configID" output property from the appropriate "Create Environment from Template" IDTES action step.

The default value for this property is the "configID" output property from the IDTES action step titled "Create Environment from Template"

VM Name

This property specifies the Virtual Machine for which the User Data is to be set.

Note that if the specified environment has more than one VM with the same name, the last VM with that name that is encountered in the IDTES Environment metadata definition will be selected.

User Data String

The string value to which the VM user data is to be set. Note that any data previously in the VM user data will be overwritten.

Username

Your IDTES User ID

The default value for this property is the "username" property from the IDTES action step titled "IDTES Authentication".

Authentication Key

Your IDTES API Security Token

The default value for this property is the "password" property from the IDTES action step titled "IDTES Authentication".

Proxy Host

The optional name of the proxy to use to connect to Skytap Cloud

Proxy Port

The optional proxy port on the above proxy host to use to connect to Skytap Cloud

Output Properties

None