

CreateReleaseBundle

Overview

The **CreateReleaseBundle** is a native step that produces a [Release Bundle](#) for distribution to an [Artifact Registry Edge Node](#). The step can be used to create a signed or unsigned release bundle. When the `sign` tag is set as `true` in your yaml, this step saves artifact information to support signed pipelines.

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YAML Schema

The YAML schema for DockerBuild native step is as follows:

CreateReleaseBundle

```
pipelines:
  - name: <string>
    steps:
      - name: <string>
        type: CreateReleaseBundle
        configuration:
          #inherits all the tags from bash; https://www.jfrog.com/confluence/display/JFROG/Bash
          releaseBundleName: <string>
          releaseBundleVersion: <string>
          dryRun: <boolean> # default true
          sign: <boolean> # default false
          description: <string> # optional
          failOnValidate: <boolean> # optional (Signed Pipelines must be enabled)
          releaseNotes: # optional
            content: <string> # "markdown|asciidoc|plain_text"
            syntax: <string> # required in releaseNotes

          inputResources:
            - name: <BuildInfo resource> # one or more BuildInfo, or
            - name: <Aql resource> # one Aql

          outputResources:
            - name: <ReleaseBundle resource>

        execution:
          onStart:
            - echo "Preparing for work..."
          onSuccess:
            - echo "Job well done!"
          onFailure:
            - echo "uh oh, something went wrong"
          onComplete: #always
            - echo "Cleaning up some stuff"
```

Tags

name

An alphanumeric string (underscores are permitted) that identifies the step.

type

Must be `CreateReleaseBundle` for this step type.

configuration

Specifies all configuration selections for the step's execution environment. This step inherits the [Bash/PowerShell](#) step configuration tags, including these pertinent tags:

Tag	Description of usage	Required /Optional
<code>inputResources</code>	Must specify either a named BuildInfo resource(s) or an Aql resource. <code>CreateReleaseBundle</code> step does not accept other input resources. If <code>BuildInfo</code> <code>inputResources</code> are provided, the query for the release bundle is constructed using the <code>buildName</code> , <code>buildNumber</code> , and <code>targetRepo</code> of each <code>BuildInfo</code> input.	Required
<code>outputResources</code>	Must specify a ReleaseBundle resource. The <code>name</code> , <code>version</code> , and <code>isSigned</code> settings in the output <code>ReleaseBundle</code> are updated to the step's <code>releaseBundleName</code> , <code>releaseBundleVersion</code> , and <code>sign</code> values respectively (or any environment variable values that replaced environment variable placeholders for those values).	Required

In addition, these tags can be defined to support the step's native operation:



All native steps derive from the [Bash](#) step. This means that all steps share the same base set of tags from `Bash`, while native steps have their own additional tags as well that support the step's particular function. So it's important to be familiar with the [Bash](#) step definition, since it's the core of the definition of all other steps.

Tag	Description of usage	Required /Optional
<code>releaseBundleName</code>	An alphanumeric name for the release bundle.	Required
<code>releaseBundleVersion</code>	Version string for the release bundle.	Required
<code>dryRun</code>	When set to <code>true</code> parse and validate only to test whether a release bundle version can be created. Default is <code>true</code> .	Optional
<code>sign</code>	Specifies whether the release bundle version will be signed as part of this step. Default is <code>false</code> . <div data-bbox="284 1501 1266 1659" style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> GPG Signing Key Passphrase When configuring <code>sign=true</code>, and when your Distribution release bundle GPG signing key is passphrase protected, remember to provide the GPG Signing Key Passphrase when creating /updating your Distribution Integration .</div>	Optional
<code>description</code>	Description of the release bundle.	Optional
<code>releaseNotes</code>	Describes the release notes for the release bundle version. <code>syntax</code> specifies the format of release notes: <code>plain_text</code> , <code>markdown</code> , or <code>asciidoc</code> . Default is <code>plain_text</code> . <code>content</code> is the release notes string in the specified syntax format. Use the <code> </code> character to denote a string preserving newlines.	Optional

failOnValidate	Fail the step if one of the signatures of the BuildInfo input resource artifacts cannot be verified. Default is false.	Optional (Signed Pipelines must be enabled)
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execution

Declares collections of shell command sequences to perform for pre- and post-execution phases:

Tag	Description of usage	Required/Optional
onStart	Commands to execute in advance of the native operation	Optional
onSuccess	Commands to execute on successful completion	Optional
onFailure	Commands to execute on failed completion	Optional
onComplete	Commands to execute on any completion	Optional

The actions performed for the `onExecute` phase are inherent to this step type and may not be overridden.

Examples

The following examples show which settings to configure for a few different release bundles.

Unsigned Release Bundle Created using BuildInfo Resource

A simple, unsigned release bundle created using a `BuildInfo` resource. In this case, the release bundle version will be the run number and will have no description or release notes.

- This example requires an [Artifactory Integration](#) and a [Distribution Integration](#).
- The Pipelines DSL for this example is available in [this repository](#) in the [JFrog GitHub](#) account.

CreateReleaseBundle

```
template: true # required for local templates
valuesFilePath: ./values.yml

resources:
  # Build info of first build to bundle
  - name: gosvc_promoted_build_info
    type: BuildInfo
    configuration:
      sourceArtifactory: {{ .Values.myArtifactoryIntegration }}
      buildName: svc_build
      buildNumber: 1

  # Build info of second build to bundle
  - name: appl_promoted_build_info
    type: BuildInfo
    configuration:
      sourceArtifactory: {{ .Values.demoArtifactoryIntegration }}
      buildName: backend_build
      buildNumber: 1

  # Release bundle
  - name: release_bundle
    type: ReleaseBundle
    configuration:
      sourceDistribution: {{ .Values.distributionIntegration }}
      name: demo_rb
      version: v1.0.0

  # Signed version of the same release bundle
  - name: signed_bundle
    type: ReleaseBundle
    configuration:
      sourceDistribution: {{ .Values.distributionIntegration }}
```

```

    name: demo_rb
    version: v1.0.0

# Distribution rules
- name: distribution_rules
  type: DistributionRule
  configuration:
    sourceDistribution: {{ .Values.distributionIntegration }}
    serviceName: "*"
    siteName: "*"
    cityName: "*"
    countryCodes:
      - "CN"
      - "GB"

pipelines:
- name: demo_release_mgmt
  steps:
  - name: bundle
    type: CreateReleaseBundle
    configuration:
      releaseBundleName: demo_rb
      releaseBundleVersion: v1.0.${run_number}
      dryRun: false
      sign: false
      description: "some random test description"
      inputResources:
        - name: gosvc_promoted_build_info
          trigger: true
        - name: appl_promoted_build_info
          trigger: true
      outputResources:
        - name: release_bundle
      releaseNotes:
        syntax: markdown
        content: |
          ## Heading
          * Bullet
          * Points

  - name: sign
    type: SignReleaseBundle
    configuration:
      inputResources:
        - name: release_bundle
      outputResources:
        - name: signed_bundle

  - name: distribute
    type: DistributeReleaseBundle
    configuration:
      dryRun: false
      inputResources:
        - name: signed_bundle
        - name: distribution_rules

```

Create and Sign Release Bundle

Create and immediately sign a release bundle, with a description and release notes added to the release bundle.

CreateReleaseBundle

```
pipelines:
- name: createReleaseBundlePipeline
  steps:
  - name: createReleaseBundleStep
    type: CreateReleaseBundle
    configuration:
      releaseBundleName: myReleaseBundle
      releaseBundleVersion: "${run_number}"
      dryRun: false
      sign: true
      description: "My release bundle"
      releaseNotes:
        syntax: plain_text
        content: "Release of ${run_number} by ${step_name}"
      inputResources:
        - name: myBuildInfo
      outputResources:
        - name: myReleaseBundle
```

Trigger a Dry Run

Trigger a dry run of the release bundle creation. No release bundle will be created.

CreateReleaseBundle

```
pipelines:
- name: createReleaseBundlePipeline
  steps:
  - name: createReleaseBundleStep
    type: CreateReleaseBundle
    configuration:
      releaseBundleName: myReleaseBundle
      releaseBundleVersion: "${run_number}"
      dryRun: true
      inputResources:
        - name: myBuildInfo
      outputResources:
        - name: myReleaseBundle
```

How it Works

When you use the **CreateReleaseBundle** native step in a pipeline, it performs the following functions in the background:

- jfrog rt config (configure cli with the integration in the input resource)
- jfrog rt curl (get the Artifactory service_id)
- validate_artifact (use the signed pipelines feature to verify the incoming BuildInfo)
- Create the release bundle creation payload (the JSON object that will be in the request to Distribution)
- curl (send the release bundle creation payload to Distribution)
- write_output (update the output ReleaseBundle resource)
- save_artifact_info (if the bundle was signed, save the data for use with signed pipelines)