



# IdentityNow Rule Validator

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Date: 2020-01-28

Version: 1.0.0b

Author: [Neil McGlennon](#)

## Overview

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A tool to validate IdentityNow rules to make sure they conform to IdentityNow Rule Guidelines.

## Build and Deploy

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Build the Gem:

```
$ gem build identitynow_rule_validator.gemspec
Enter PEM pass phrase:
Successfully built RubyGem
Name: identitynow_rule_validator
Version: 1.0.0b
File: identitynow_rule_validator-1.0.0b.gem
```

Install the Gem (Locally):

```
$ gem install --local identitynow_rule_validator-1.0.0b.gem
Password:
Successfully installed identitynow_rule_validator-1.0.0b
Parsing documentation for identitynow_rule_validator-1.0.0b
Installing ri documentation for identitynow_rule_validator-1.0.0b
Done installing documentation for identitynow_rule_validator after 0 seconds
1 gem installed
```

Publish gem:

```
$ gem push identitynow_rule_validator-1.0.0b.gem
Enter your RubyGems.org credentials.
Don't have an account yet? Create one at https://rubygems.org/sign_up
  Email:   neil.mcglennon@sailpoint.com
Password:

Signed in.
Pushing gem to https://rubygems.org...
Successfully registered gem: identitynow_rule_validator (1.0.0b)
```

Remove old version gem:

```
$ gem yank identitynow_rule_validator -v 0.0.1b
Yanking gem from https://rubygems.org...
Successfully deleted gem: identitynow_rule_validator (0.0.1b)
```

## Prerequisites / Installation

Before you use this, you will need to follow the following instructions:

- Download and install [Ruby](#). If you are running a macOS, we recommend installing this via [Homebrew](#) by running:

```
$ brew install ruby
```

- Verify you have Ruby 2.5+ installed by running the following:

```
$ ruby -v
ruby 2.5.0p0 (2017-12-25 revision 61468) [x86_64-darwin16]
```

- Install the **Colorize** gem:

```
$ gem install colorize
Successfully installed colorize-0.8.1
Parsing documentation for colorize-0.8.1
Done installing documentation for colorize after 0 seconds
1 gem installed
```

## Installation and Updates

NOTE: If using a Mac, the below commands will require you to use `sudo` to perform them. To use `sudo`, simply put the term `sudo` in front of the command. It will prompt you for your computer password if you haven't already authenticated in that terminal session. Example: `sudo gem install identitynow_rule_validator`

To install this gem in your local environment:

```
$ gem install identitynow_rule_validator --pre
Successfully installed identitynow_rule_validator-1.0.0b
Parsing documentation for identitynow_rule_validator-1.0.0b
Done installing documentation for identitynow_rule_validator-1.0.0b after 0
seconds
1 gem installed
```

To check to see if the gem is out of date:

```
$ gem outdated|grep identitynow_rule_validator
identitynow_rule_validator (0.0.1b < 1.0.0b)
```

To update the gem if out of date:

```
$ gem update identitynow_rule_validator
Updating installed gems
Updating identitynow_rule_validator
Fetching: identitynow_rule_validator-1.0.0b.gem (100%)
Successfully installed identitynow_rule_validator-1.0.0b
Parsing documentation for identitynow_rule_validator-1.0.0b
Installing ri documentation for identitynow_rule_validator-1.0.0b
Installing darkfish documentation for identitynow_rule_validator-1.0.0b
Done installing documentation for identitynow_rule_validator after 0 seconds
Parsing documentation for identitynow_rule_validator-1.0.0b
Done installing documentation for identitynow_rule_validator after 0 seconds
Gems updated: identitynow_rule_validator
```

To clean up your installation (This will uninstall all installed *identitynow\_rule\_validator* gems that are not current.):

```
$ sudo gem cleanup identitynow_rule_validator
Cleaning up installed gems...
Attempting to uninstall identitynow_rule_validator-1.0.0b
Successfully uninstalled identitynow_rule_validator-1.0.0b
Clean Up Complete
```

# Execution

This gem has a very simple interface for execution. All is needed is to call the *identitynow\_rule\_validator* by a simple Ruby script as follows:

File: `validate.rb`

```
#!/usr/bin/env ruby
require 'identitynow_rule_validator'

input = "/Users/neil.mcglennon/path/to/some/rules/" # Change this to your folder
containing XML rules.

IdentityNowRuleValidator.validate_directory( input )
```

The execution will look something like this:

```
$ ./validate.rb

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IdentityNow Rule Validator
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Author: Neil McGlennon (neil.mcglennon@sailpoint.com)
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Validating files from directory: /Users/neil.mcglennon/.../rules/
Rule - BeforeProvisioning - Before Provisioning AD.xml
Rule - CertificationExclusion - AD Certifiable Groups.xml
Rule - Generic - Common Exclusion Rule Library.xml
Rule - IdentityAttribute - Calculate Lifecycle State.xml
Rule - IdentitySelector - Finance.xml
Rule - JDBCProvision - Mainframe.xml
Rule - WebServicesBeforeOperationRule - Generate Header.xml

/Users/neil.mcglennon/.../rules
Rule - CertificationExclusion - AD Certifiable Groups.xml

Line 3: <Rule language='beanshell' name='AD Certifiable Groups'
type='CertificationExc
Warning: Deprecated Rule Type: CertificationExclusion rules are deprecated.
Consider configuration via certification campaign filters instead.

/Users/neil.mcglennon/.../rules
Rule - Generic - Common Exclusion Rule Library.xml
```

```
Line 111: Custom custom = context.getObjectByName( Custom.class, listName );
Error: Cannot get objects other than sailpoint.object.Identity or
sailpoint.object.Link objects.
```

```
Line 138: allowedRoles.add( context.getObject( Bundle.class, profileName ) );
Error: Cannot get objects other than sailpoint.object.Identity or
sailpoint.object.Link objects.
```

```
/Users/neil.mcglennon/.../rules
Rule - IdentitySelector - Finance.xml
```

```
Line 3: <Rule language='beanshell' name='Finance' type='IdentitySele
Warning: Deprecated Rule Type: IdentitySelector rules are deprecated. Consider
configuration via rule assignment criteria instead.
```

```
Line 18: List links = identity.getLinks();
Error: The function 'getLinks' is deprecated. Use an identity search instead.
```

```
/Users/neil.mcglennon/.../rules
Rule - JDBCProvision - Mainframe.xml
```

```
Line 24: System.out.println( "plan [" + plan.toXml() + "]" );
Warning: Remove any System.out configurations in favor of logging statements.
```

```
Line 49: System.out.println( "Operation [" + account.getOperation() + "]"
detected." );
Warning: Remove any System.out configurations in favor of logging statements.
```

```
/Users/neil.mcglennon/.../rules
Rule - WebServicesBeforeOperationRule - Generate Header.xml
```

```
Line 25: public static String getRandomString(boolean includeNumbers, boolean
mixedCase,...
```

```
Warning: Remove references to 'static' in methods. This can cause unexpected
behavior.
```