4.10.1

* Docs  
  [User Manual](http://docs.google.com/userguide/userguide.html)  
  [Guides and Tutorials](https://guides.gradle.org)  
  [DSL Reference](http://docs.google.com/dsl/)  
  [Javadoc](http://docs.google.com/javadoc/)  
  [Release Notes](http://docs.google.com/release-notes.html)
* [Forums](https://discuss.gradle.org/)
* [Training](https://gradle.org/training/)
* [Try Gradle Enterprise](https://gradle.com/enterprise)
* [User Manual Home](http://docs.google.com/userguide/userguide.html)
* [DSL Reference Home](http://docs.google.com/dsl/)
* [Release Notes](http://docs.google.com/release-notes.html)
  + [Methods](http://docs.google.com/org.gradle.api.PolymorphicDomainObjectContainer.html#N17DCA)

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* [allprojects { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:allprojects(groovy.lang.Closure))
* [artifacts { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:artifacts(groovy.lang.Closure))
* [buildscript { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:buildscript(groovy.lang.Closure))
* [configurations { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:configurations(groovy.lang.Closure))
* [dependencies { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:dependencies(groovy.lang.Closure))
* [repositories { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:repositories(groovy.lang.Closure))
* [sourceSets { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:sourceSets(groovy.lang.Closure))
* [subprojects { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:subprojects(groovy.lang.Closure))
* [publishing { }](http://docs.google.com/org.gradle.api.Project.html#org.gradle.api.Project:publishing(groovy.lang.Closure))

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* [Task](http://docs.google.com/org.gradle.api.Task.html)
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* [IncludedBuild](http://docs.google.com/org.gradle.api.initialization.IncludedBuild.html)
* [Script](http://docs.google.com/org.gradle.api.Script.html)
* [JavaToolChain](http://docs.google.com/org.gradle.jvm.toolchain.JavaToolChain.html)
* [SourceSet](http://docs.google.com/org.gradle.api.tasks.SourceSet.html)
* [SourceSetOutput](http://docs.google.com/org.gradle.api.tasks.SourceSetOutput.html)
* [SourceDirectorySet](http://docs.google.com/org.gradle.api.file.SourceDirectorySet.html)
* [IncrementalTaskInputs](http://docs.google.com/org.gradle.api.tasks.incremental.IncrementalTaskInputs.html)
* [Configuration](http://docs.google.com/org.gradle.api.artifacts.Configuration.html)
* [ResolutionStrategy](http://docs.google.com/org.gradle.api.artifacts.ResolutionStrategy.html)
* [ArtifactResolutionQuery](http://docs.google.com/org.gradle.api.artifacts.query.ArtifactResolutionQuery.html)
* [ComponentSelection](http://docs.google.com/org.gradle.api.artifacts.ComponentSelection.html)
* [ComponentSelectionRules](http://docs.google.com/org.gradle.api.artifacts.ComponentSelectionRules.html)
* [ExtensionAware](http://docs.google.com/org.gradle.api.plugins.ExtensionAware.html)
* [ExtraPropertiesExtension](http://docs.google.com/org.gradle.api.plugins.ExtraPropertiesExtension.html)
* [PluginDependenciesSpec](http://docs.google.com/org.gradle.plugin.use.PluginDependenciesSpec.html)
* [PluginDependencySpec](http://docs.google.com/org.gradle.plugin.use.PluginDependencySpec.html)
* [PluginManagementSpec](http://docs.google.com/org.gradle.plugin.management.PluginManagementSpec.html)
* [ResourceHandler](http://docs.google.com/org.gradle.api.resources.ResourceHandler.html)
* [TextResourceFactory](http://docs.google.com/org.gradle.api.resources.TextResourceFactory.html)

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* [PublishingExtension](http://docs.google.com/org.gradle.api.publish.PublishingExtension.html)
* [IvyPublication](http://docs.google.com/org.gradle.api.publish.ivy.IvyPublication.html)
* [IvyArtifact](http://docs.google.com/org.gradle.api.publish.ivy.IvyArtifact.html)
* [IvyArtifactSet](http://docs.google.com/org.gradle.api.publish.ivy.IvyArtifactSet.html)
* [IvyModuleDescriptorSpec](http://docs.google.com/org.gradle.api.publish.ivy.IvyModuleDescriptorSpec.html)
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* [MavenPom](http://docs.google.com/org.gradle.api.publish.maven.MavenPom.html)
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* [MavenPomDeveloper](http://docs.google.com/org.gradle.api.publish.maven.MavenPomDeveloper.html)
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* [MavenPomLicense](http://docs.google.com/org.gradle.api.publish.maven.MavenPomLicense.html)
* [MavenPomLicenseSpec](http://docs.google.com/org.gradle.api.publish.maven.MavenPomLicenseSpec.html)
* [MavenPomMailingList](http://docs.google.com/org.gradle.api.publish.maven.MavenPomMailingList.html)
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* [ArtifactHandler](http://docs.google.com/org.gradle.api.artifacts.dsl.ArtifactHandler.html)

### Build Cache types

* [BuildCacheConfiguration](http://docs.google.com/org.gradle.caching.configuration.BuildCacheConfiguration.html)
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* [HttpBuildCache](http://docs.google.com/org.gradle.caching.http.HttpBuildCache.html)

### Input Normalization types

* [InputNormalizationHandler](http://docs.google.com/org.gradle.normalization.InputNormalizationHandler.html)
* [InputNormalization](http://docs.google.com/org.gradle.normalization.InputNormalization.html)
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* [TaskReportTask](http://docs.google.com/org.gradle.api.tasks.diagnostics.TaskReportTask.html)
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* [DependencyInsightReportTask](http://docs.google.com/org.gradle.api.tasks.diagnostics.DependencyInsightReportTask.html)
* [PropertyReportTask](http://docs.google.com/org.gradle.api.tasks.diagnostics.PropertyReportTask.html)
* [ComponentReport](http://docs.google.com/org.gradle.api.reporting.components.ComponentReport.html)
* [DependentComponentsReport](http://docs.google.com/org.gradle.api.reporting.dependents.DependentComponentsReport.html)
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* [BuildEnvironmentReportTask](http://docs.google.com/org.gradle.api.tasks.diagnostics.BuildEnvironmentReportTask.html)
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* [FindBugsXmlReport](http://docs.google.com/org.gradle.api.plugins.quality.FindBugsXmlReport.html)
* [Report](http://docs.google.com/org.gradle.api.reporting.Report.html)
* [Reporting](http://docs.google.com/org.gradle.api.reporting.Reporting.html)
* [ReportContainer](http://docs.google.com/org.gradle.api.reporting.ReportContainer.html)
* [ReportingExtension](http://docs.google.com/org.gradle.api.reporting.ReportingExtension.html)

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* [EclipseProject](http://docs.google.com/org.gradle.plugins.ide.eclipse.model.EclipseProject.html)
* [EclipseClasspath](http://docs.google.com/org.gradle.plugins.ide.eclipse.model.EclipseClasspath.html)
* [EclipseJdt](http://docs.google.com/org.gradle.plugins.ide.eclipse.model.EclipseJdt.html)
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* [IdeaModel](http://docs.google.com/org.gradle.plugins.ide.idea.model.IdeaModel.html)
* [IdeaProject](http://docs.google.com/org.gradle.plugins.ide.idea.model.IdeaProject.html)
* [IdeaModule](http://docs.google.com/org.gradle.plugins.ide.idea.model.IdeaModule.html)
* [IdeaWorkspace](http://docs.google.com/org.gradle.plugins.ide.idea.model.IdeaWorkspace.html)
* [XmlFileContentMerger](http://docs.google.com/org.gradle.plugins.ide.api.XmlFileContentMerger.html)
* [FileContentMerger](http://docs.google.com/org.gradle.plugins.ide.api.FileContentMerger.html)

### Eclipse/IDEA task types

* [GenerateEclipseProject](http://docs.google.com/org.gradle.plugins.ide.eclipse.GenerateEclipseProject.html)
* [GenerateEclipseClasspath](http://docs.google.com/org.gradle.plugins.ide.eclipse.GenerateEclipseClasspath.html)
* [GenerateEclipseJdt](http://docs.google.com/org.gradle.plugins.ide.eclipse.GenerateEclipseJdt.html)
* [GenerateEclipseWtpComponent](http://docs.google.com/org.gradle.plugins.ide.eclipse.GenerateEclipseWtpComponent.html)
* [GenerateEclipseWtpFacet](http://docs.google.com/org.gradle.plugins.ide.eclipse.GenerateEclipseWtpFacet.html)
* [GenerateIdeaModule](http://docs.google.com/org.gradle.plugins.ide.idea.GenerateIdeaModule.html)
* [GenerateIdeaProject](http://docs.google.com/org.gradle.plugins.ide.idea.GenerateIdeaProject.html)
* [GenerateIdeaWorkspace](http://docs.google.com/org.gradle.plugins.ide.idea.GenerateIdeaWorkspace.html)

### Native software types

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* [PrebuiltSharedLibraryBinary](http://docs.google.com/org.gradle.nativeplatform.PrebuiltSharedLibraryBinary.html)
* [PrebuiltStaticLibraryBinary](http://docs.google.com/org.gradle.nativeplatform.PrebuiltStaticLibraryBinary.html)
* [NativeComponentSpec](http://docs.google.com/org.gradle.nativeplatform.NativeComponentSpec.html)
* [NativeExecutableSpec](http://docs.google.com/org.gradle.nativeplatform.NativeExecutableSpec.html)
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* [CUnitTestSuiteSpec](http://docs.google.com/org.gradle.nativeplatform.test.cunit.CUnitTestSuiteSpec.html)
* [GoogleTestTestSuiteSpec](http://docs.google.com/org.gradle.nativeplatform.test.googletest.GoogleTestTestSuiteSpec.html)
* [NativeBinarySpec](http://docs.google.com/org.gradle.nativeplatform.NativeBinarySpec.html)
* [NativeExecutableBinarySpec](http://docs.google.com/org.gradle.nativeplatform.NativeExecutableBinarySpec.html)
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* [CUnitTestSuiteBinarySpec](http://docs.google.com/org.gradle.nativeplatform.test.cunit.CUnitTestSuiteBinarySpec.html)
* [GoogleTestTestSuiteBinarySpec](http://docs.google.com/org.gradle.nativeplatform.test.googletest.GoogleTestTestSuiteBinarySpec.html)
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* [BuildType](http://docs.google.com/org.gradle.nativeplatform.BuildType.html)
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### Native component task types

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* [Assemble](http://docs.google.com/org.gradle.language.assembler.tasks.Assemble.html)
* [ObjectiveCCompile](http://docs.google.com/org.gradle.language.objectivec.tasks.ObjectiveCCompile.html)
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* [LinkExecutable](http://docs.google.com/org.gradle.nativeplatform.tasks.LinkExecutable.html)
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PolymorphicDomainObjectContainer

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| API Documentation: | [PolymorphicDomainObjectContainer](http://docs.google.com/javadoc/org/gradle/api/PolymorphicDomainObjectContainer.html) |
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| Known Subtypes: | | [TaskContainer](http://docs.google.com/dsl/org.gradle.api.tasks.TaskContainer.html) | | --- | | [AuthenticationContainer](http://docs.google.com/dsl/org.gradle.api.artifacts.repositories.AuthenticationContainer.html) | | [PlayDistributionContainer](http://docs.google.com/dsl/org.gradle.play.distribution.PlayDistributionContainer.html) | |
| --- | --- | --- | --- | --- |

Note: This class is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

A [NamedDomainObjectContainer](http://docs.google.com/dsl/org.gradle.api.NamedDomainObjectContainer.html) that allows to create domain objects with different types.

Properties

No properties

Methods

| Method | Description |
| --- | --- |
| [containerWithType](http://docs.google.com/org.gradle.api.PolymorphicDomainObjectContainer.html#org.gradle.api.PolymorphicDomainObjectContainer:containerWithType(java.lang.Class))(type) | Incubating  Creates a regular container that wraps the polymorphic container presenting all elements of a specified type. |
| [create](http://docs.google.com/org.gradle.api.PolymorphicDomainObjectContainer.html#org.gradle.api.PolymorphicDomainObjectContainer:create(java.lang.String))(name) | Creates a new item with the given name, adding it to this container. |
| [create](http://docs.google.com/org.gradle.api.PolymorphicDomainObjectContainer.html#org.gradle.api.PolymorphicDomainObjectContainer:create(java.lang.String,%20groovy.lang.Closure))(name, configureClosure) | Creates a new item with the given name, adding it to this container, then configuring it with the given closure. |
| [create](http://docs.google.com/org.gradle.api.PolymorphicDomainObjectContainer.html#org.gradle.api.PolymorphicDomainObjectContainer:create(java.lang.String,%20java.lang.Class))(name, type) | Incubating  Creates a domain object with the specified name and type, and adds it to the container. |
| [create](http://docs.google.com/org.gradle.api.PolymorphicDomainObjectContainer.html#org.gradle.api.PolymorphicDomainObjectContainer:create(java.lang.String,%20java.lang.Class,%20org.gradle.api.Action))(name, type, configuration) | Incubating  Creates a domain object with the specified name and type, adds it to the container, and configures it with the specified action. |
| [create](http://docs.google.com/org.gradle.api.PolymorphicDomainObjectContainer.html#org.gradle.api.PolymorphicDomainObjectContainer:create(java.lang.String,%20org.gradle.api.Action))(name, configureAction) | Creates a new item with the given name, adding it to this container, then configuring it with the given action. |
| [getByName](http://docs.google.com/org.gradle.api.PolymorphicDomainObjectContainer.html#org.gradle.api.PolymorphicDomainObjectContainer:getByName(java.lang.String))(name) | Locates an object by name, failing if there is no such object. |
| [getByName](http://docs.google.com/org.gradle.api.PolymorphicDomainObjectContainer.html#org.gradle.api.PolymorphicDomainObjectContainer:getByName(java.lang.String,%20groovy.lang.Closure))(name, configureClosure) | Locates an object by name, failing if there is no such object. The given configure closure is executed against the object before it is returned from this method. The object is passed to the closure as its delegate. |
| [getByName](http://docs.google.com/org.gradle.api.PolymorphicDomainObjectContainer.html#org.gradle.api.PolymorphicDomainObjectContainer:getByName(java.lang.String,%20org.gradle.api.Action))(name, configureAction) | Locates an object by name, failing if there is no such object. The given configure action is executed against the object before it is returned from this method. |
| [maybeCreate](http://docs.google.com/org.gradle.api.PolymorphicDomainObjectContainer.html#org.gradle.api.PolymorphicDomainObjectContainer:maybeCreate(java.lang.String))(name) | Looks for an item with the given name, creating and adding it to this container if it does not exist. |
| [maybeCreate](http://docs.google.com/org.gradle.api.PolymorphicDomainObjectContainer.html#org.gradle.api.PolymorphicDomainObjectContainer:maybeCreate(java.lang.String,%20java.lang.Class))(name, type) | Incubating  Looks for an item with the given name and type, creating and adding it to this container if it does not exist. |
| [named](http://docs.google.com/org.gradle.api.PolymorphicDomainObjectContainer.html#org.gradle.api.PolymorphicDomainObjectContainer:named(java.lang.String))(name) | Incubating  Locates a object by name, without triggering its creation or configuration, failing if there is no such object. |
| [register](http://docs.google.com/org.gradle.api.PolymorphicDomainObjectContainer.html#org.gradle.api.PolymorphicDomainObjectContainer:register(java.lang.String))(name) | Incubating  Defines a new object, which will be created when it is required. A object is 'required' when the object is located using query methods such as [NamedDomainObjectCollection.getByName(java.lang.String)](http://docs.google.com/dsl/org.gradle.api.NamedDomainObjectCollection.html#org.gradle.api.NamedDomainObjectCollection:getByName(java.lang.String)) or when [Provider.get()](http://docs.google.com/javadoc/org/gradle/api/provider/Provider.html#get--) is called on the return value of this method. |
| [register](http://docs.google.com/org.gradle.api.PolymorphicDomainObjectContainer.html#org.gradle.api.PolymorphicDomainObjectContainer:register(java.lang.String,%20org.gradle.api.Action))(name, configurationAction) | Incubating  Defines a new object, which will be created and configured when it is required. An object is 'required' when the object is located using query methods such as [NamedDomainObjectCollection.getByName(java.lang.String)](http://docs.google.com/dsl/org.gradle.api.NamedDomainObjectCollection.html#org.gradle.api.NamedDomainObjectCollection:getByName(java.lang.String)) or when [Provider.get()](http://docs.google.com/javadoc/org/gradle/api/provider/Provider.html#get--) is called on the return value of this method. |

Script blocks

No script blocks

Method details

[**NamedDomainObjectContainer**](http://docs.google.com/dsl/org.gradle.api.NamedDomainObjectContainer.html)<U> containerWithType([**Class**](http://download.oracle.com/javase/8/docs/api/java/lang/Class.html)<U> type)

Note: This method is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

Creates a regular container that wraps the polymorphic container presenting all elements of a specified type.

T create([**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html) name)

Creates a new item with the given name, adding it to this container.

T create([**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html) name, [**Closure**](http://docs.groovy-lang.org/2.4.15/html/gapi/groovy/lang/Closure.html) configureClosure)

Creates a new item with the given name, adding it to this container, then configuring it with the given closure.

U create([**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html) name, [**Class**](http://download.oracle.com/javase/8/docs/api/java/lang/Class.html)<U> type)

Note: This method is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

Creates a domain object with the specified name and type, and adds it to the container.

U create([**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html) name, [**Class**](http://download.oracle.com/javase/8/docs/api/java/lang/Class.html)<U> type, [**Action**](http://docs.google.com/javadoc/org/gradle/api/Action.html)<? super U> configuration)

Note: This method is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

Creates a domain object with the specified name and type, adds it to the container, and configures it with the specified action.

T create([**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html) name, [**Action**](http://docs.google.com/javadoc/org/gradle/api/Action.html)<? super T> configureAction)

Creates a new item with the given name, adding it to this container, then configuring it with the given action.

T getByName([**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html) name)

Locates an object by name, failing if there is no such object.

T getByName([**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html) name, [**Closure**](http://docs.groovy-lang.org/2.4.15/html/gapi/groovy/lang/Closure.html) configureClosure)

Locates an object by name, failing if there is no such object. The given configure closure is executed against the object before it is returned from this method. The object is passed to the closure as its delegate.

T getByName([**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html) name, [**Action**](http://docs.google.com/javadoc/org/gradle/api/Action.html)<? super T> configureAction)

Locates an object by name, failing if there is no such object. The given configure action is executed against the object before it is returned from this method.

T maybeCreate([**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html) name)

Looks for an item with the given name, creating and adding it to this container if it does not exist.

U maybeCreate([**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html) name, [**Class**](http://download.oracle.com/javase/8/docs/api/java/lang/Class.html)<U> type)

Note: This method is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

Looks for an item with the given name and type, creating and adding it to this container if it does not exist.

[**NamedDomainObjectProvider**](http://docs.google.com/javadoc/org/gradle/api/NamedDomainObjectProvider.html)<T> named([**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html) name)

Note: This method is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

Locates a object by name, without triggering its creation or configuration, failing if there is no such object.

[**NamedDomainObjectProvider**](http://docs.google.com/javadoc/org/gradle/api/NamedDomainObjectProvider.html)<T> register([**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html) name)

Note: This method is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

Defines a new object, which will be created when it is required. A object is 'required' when the object is located using query methods such as [NamedDomainObjectCollection.getByName(java.lang.String)](http://docs.google.com/dsl/org.gradle.api.NamedDomainObjectCollection.html#org.gradle.api.NamedDomainObjectCollection:getByName(java.lang.String)) or when [Provider.get()](http://docs.google.com/javadoc/org/gradle/api/provider/Provider.html#get--) is called on the return value of this method.

It is generally more efficient to use this method instead of [NamedDomainObjectContainer.create(java.lang.String)](http://docs.google.com/dsl/org.gradle.api.NamedDomainObjectContainer.html#org.gradle.api.NamedDomainObjectContainer:create(java.lang.String)), as that methods will eagerly create he object, regardless of whether that object is required for the current build or not. This method, on the other hand, will defer creation until required.

[**NamedDomainObjectProvider**](http://docs.google.com/javadoc/org/gradle/api/NamedDomainObjectProvider.html)<T> register([**String**](http://download.oracle.com/javase/8/docs/api/java/lang/String.html) name, [**Action**](http://docs.google.com/javadoc/org/gradle/api/Action.html)<? super T> configurationAction)

Note: This method is [incubating](http://docs.google.com/userguide/feature_lifecycle.html) and may change in a future version of Gradle.

Defines a new object, which will be created and configured when it is required. An object is 'required' when the object is located using query methods such as [NamedDomainObjectCollection.getByName(java.lang.String)](http://docs.google.com/dsl/org.gradle.api.NamedDomainObjectCollection.html#org.gradle.api.NamedDomainObjectCollection:getByName(java.lang.String)) or when [Provider.get()](http://docs.google.com/javadoc/org/gradle/api/provider/Provider.html#get--) is called on the return value of this method.

It is generally more efficient to use this method instead of [NamedDomainObjectContainer.create(java.lang.String, org.gradle.api.Action)](http://docs.google.com/dsl/org.gradle.api.NamedDomainObjectContainer.html#org.gradle.api.NamedDomainObjectContainer:create(java.lang.String,%20org.gradle.api.Action)) or [NamedDomainObjectContainer.create(java.lang.String)](http://docs.google.com/dsl/org.gradle.api.NamedDomainObjectContainer.html#org.gradle.api.NamedDomainObjectContainer:create(java.lang.String)), as those methods will eagerly create and configure the object, regardless of whether that object is required for the current build or not. This method, on the other hand, will defer creation and configuration until required.

**Docs**

* [User Manual](http://docs.google.com/userguide/userguide.html)
* [DSL Reference](http://docs.google.com/dsl/)
* [Release Notes](http://docs.google.com/release-notes.html)
* [Javadoc](http://docs.google.com/javadoc/)

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