

Reporting

Fundamentals of IdentityIQ Implementation IdentityIQ

Overview

Reporting

- Understand the reporting architecture of SailPoint IdentityIQ
- Learn about creating custom reports including
 - Defining Data Sources
 - Report Column Configuration
 - Query Configuration



Reporting Overview

My Reports Reports Scheduled Reports Report Results

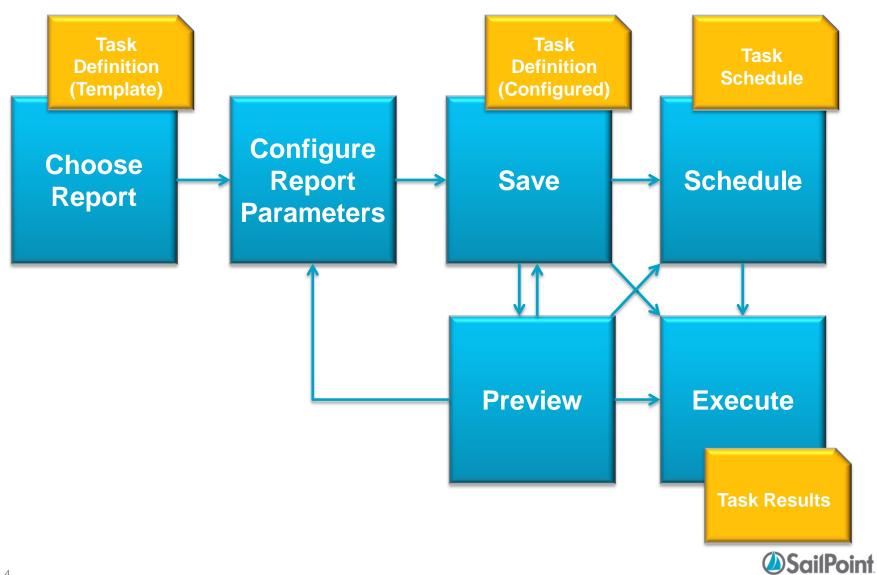
Search by Report Name Q

Name Description

- Reports Tab
 - Report Templates
 - Used for creation of reports
- My Reports Tab
 - Saved Reports configured from Report Templates
 - Represent saved configurations of report templates
- Scheduled Reports Tab
 - Details information about report schedules
- Report Results Tab
 - Results of ad-hoc or scheduled reports (Results and links to PDF/CSV)



General Reporting Flow



Configuration of Report Parameters

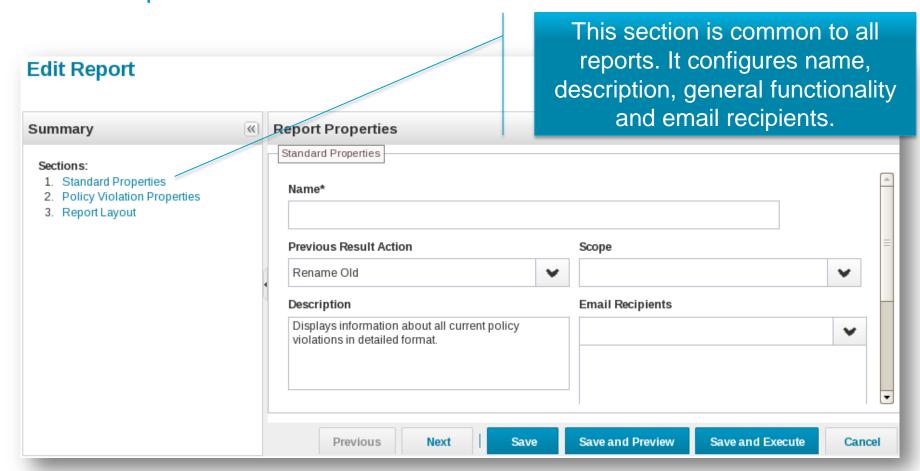
- Configuration specifies
 - Standard properties
 - Name
 - Description
 - Email recipients
 - Data filtering
 - By date range
 - By application
 - By manager
 - etc...
 - Column layout (adjustable in preview as well)
 - Which columns are visible
 - Sort by
 - Group by



Reporting Configuration

Sections

All reports have three main sections

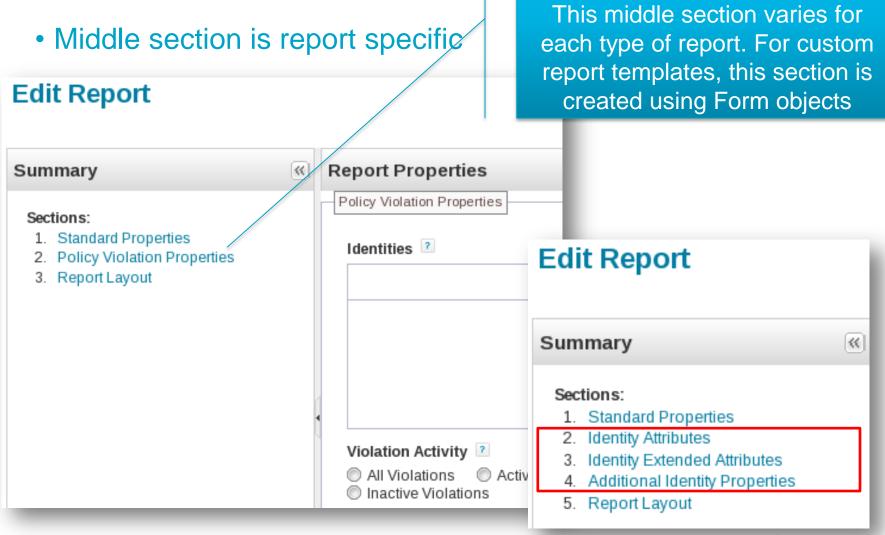




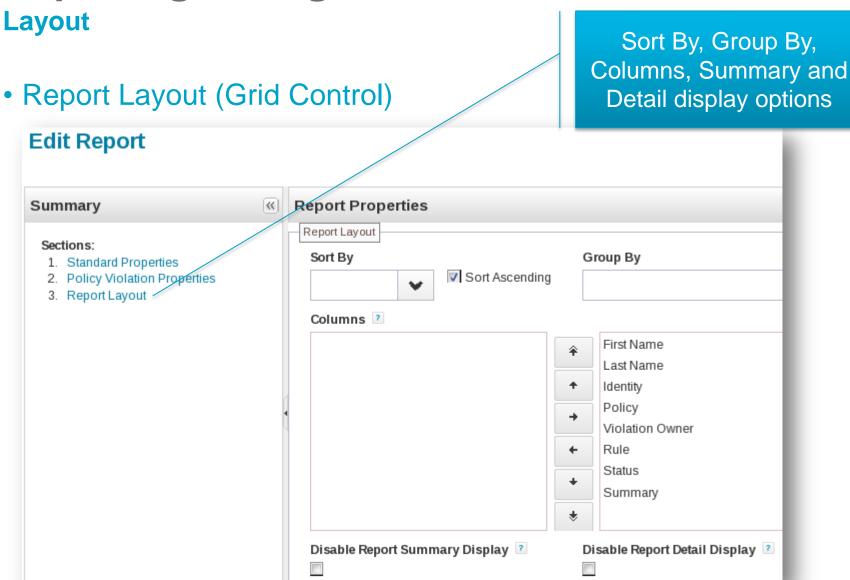
6

Reporting Configuration

Report Specific



Reporting Configuration





Developing New Custom Reports

- Reporting architecture allows for Implementers to extend IdentityIQ to create new reports
- Every Report Definition is just a specialized Task
 - Reports inherit IdentityIQ Task characteristics
 - Configuration (saving configured Task Definition objects)
 - Schedules (TaskSchedule objects)
 - Results (TaskResult objects)
 - Report definitions define
 - Summary and Charting options
 - What object type to report on (Identity, Policy Violation, etc.)
 - Report Layout (Columns and ordering to display)
 - Query to retrieve supporting data
 - SailPoint Filter, Java Datasource, HQL



New Reporting – Implementation Details

- New Report Executor
 - Java class:
 - sailpoint.reporting.LiveReportExecutor
 - LiveReportExecutor uses the XML report definition encapsulated within the TaskDefinition to generate the report
- Creating New Custom Reports
 - Existing Live Reports can be used as examples for custom reports
 - Generate new Task Definition including
 - Configuration Options
 - Query to execute
 - Columns to retrieve



Report XML Overview

Policy Violation Report

</TaskDefinition>

LiveReport

```
<?xml version='1.0' encoding='UTF-8'?>
<!DOCTYPE TaskDefinition PUBLIC "sailpoint.dtd" "sailpoint.dtd">
<TaskDefinition created="1346692200540" executor="sailpoint.reporting.LiveReportExecu
 <Attributes>
                                                             Chart Definition
   <dap>
     <entry key="report">
      <value>
        <LiveReport title="Policy Violation Report">
          <Chart category="status" groupBy="status,policyName",series="policyName"</pre>
          <DataSource objectType="PolicyViolation" type="Filter">
                                                          DataSource Definition
          <Columns> columns>
          </LiveReport>
                                                             Form Reference
      </value>
     </entry>
   </Map>
                                                          Column Configuration
 </Attributes>
 <Description> color 
 <RequiredRights> - </RequiredRights>
                                                             Report Summary
 <Signature>  </signature>
```

wouilPoint

Data Query

 Start by thinking of the construct of a basic SQL statement select <columns> from where <criteria>;

Example:

In our reporting engine, the mappings for each item are:

<columns></columns>	Column Configuration
	SailPoint Object
<criteria></criteria>	Query (Defined as Filter, HQL or Java DataSource)



- What to search for?
 - Defined as objectType and type

```
<DataSource objectType="PolicyViolation" type="Filter">
```

We will search for Policy Violation objects using a Filter



- What Query to Run?
 - Default behavior is to bring back all objects of the type specified.
 - Query is configurable
 - Data Source
 - Query Parameters
 - Custom Forms

<LiveReport tit

<Chart catego



- What columns to retrieve?
- Defined as Columns and ReportColumnConfigure
 Items in XMI

Lists the items that we need to display defined by properties

```
<Columns>
```



Signature and ReportForm

Signature defines filters which can be specified by report user

```
<Signature>
  <Inputs>
      <Argument multi="true" name="identities" type="Identity">
            <Description>rept_input_violation_report_identities</Description>
      </Argument> ...
  </Inputs>
  </Signature>
```

Optional ReportForm can be specified to manage UI presentation of filters

```
<ReportForm>
    <Reference class="sailpoint.object.Form" id="ff8080814528eeb90854981201b4"
        name="Policy Violation Report Form"/>
        </ReportForm>
```



Direct Connect – Data Integration

- In 6.0, we flattened a good bit of the data model to makes it easier to get at the data
 - Recommended approach is to replicate the database (or a portion of the database)
 - Use off-the-shelf Business Information (BI) tools to query the data
- IIQ Console command
 - iiq exportviews
 - Creates views for exported data (supported mappings for extended attributes)
 - Example: "extended1" becomes "division" in view

Note: Data Export task will remain for backwards compatibility.





Questions?

Exercise Preview

Section 3, Exercises 6

- Exercise 6: Creating and Extending a Custom Report
 - Load custom report from XML file
 - Investigate the report and modify its layout
 - Extend the report to display additional data
- Optional Extension Exercises
 - Extend the report using signature and forms
 - Extend the report to limit returned data



Report Exercise Preview

- /home/spadmin/ImplementerTraining/config
 - Report-CustomCapabilities.xml
 - Initial custom report no parameters
 - Provides all identities and their capabilities
 - Report-CustomCapabilities2.xml
 - Extended report
 - Added "Region" and "Location"
 - Report-CustomCapabilities3.xml
 - Signature example
 - Filter by "Identity "and "Manager"
 - Report-CustomCapabilities4.xml
 - Form example
 - Format the data input section: title and format
 - Uses Report-CapabilitiesForm.xml
 - Report-CustomCapabilities5.xml
 - Added query option to show only capabilities with values

