

**Splunk**

**Template Configuration Guide**

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# Introduction

This guide details how to create some index and reports in Splunk using Bocada Database.

The templates only work in the release of Bocada 22.3.12 or later.

# 

# Data Sources

The templates include the guide to create the following Bocada reports:

* Backup Health
* Backup Health Trends
* Restore Health
* Backup Trends
* Backup Duration Trends
* Storage Trends
* Data Domain Utilization

# Splunk Configuration Checklist

While detailed steps are included below, this is an overview of the steps to create some Bocada reports on your Splunk solution:

* Configure [Splunk DB Connect](https://docs.splunk.com/Documentation/DBX/3.11.0/DeployDBX/Createandmanagedatabaseconnections)
* Install Java Environment
* Create an Identity for Bocada
* Create Database connection for Bocada
* Create Bocada Inputs
* Bocada Search & Reports

# Requirements

This section lists requirements that must be met prior to create the Bocada inputs in Splunk.

## Install and configure Java environment

The JDBC driver for MS SQL Server provides a JDBC driver for MS SQL Server databases. This driver can be used by Splunk DB Connect and allow it to connect to MS SQL Server databases.

Splunk guide to install and configure JDBC driver for MS SQL Server can be found here <https://docs.splunk.com/Documentation/DBX/3.10.0/JDBCMSSQL/Installationoverview>

After install JDBC driver check the following settings:

Look for the JAVA HOME path.

Under configuration, general settings please the JAVA\_HOME path, it would look like:

Graphical user interface, text, application

Description automatically generated

## Install and Configure Splunk DB Connect

[Splunk DB Connect](https://docs.splunk.com/Documentation/DBX/3.10.0/DeployDBX/AboutSplunkDBConnect) is a generic SQL database extension for Splunk that enables easy integration of database information with Splunk queries and reports.

Guide to deploy and use DB Connect: <https://docs.splunk.com/Documentation/DBX/3.11.0/DeployDBX/Createandmanagedatabaseconnections>

## Install Splunk database driver for MS SQL Server

Splunk driver for MS Sql Server can be found here: <https://docs.splunk.com/Documentation/DBX/3.10.0/JDBCMSSQL/About>

After download and install the Splunk database driver for MS SQL Server, review that the SQL Server drivers are installed. Under Drivers Settings would look like:

Graphical user interface, text, application

Description automatically generated

# Create Bocada Identity

Under Configuration– Databases, Select Identities and create a new Identity (Identity Name recommended: Bocada)

Graphical user interface, application

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# Create Bocada Database Connection

Under Configuration – Databases, select Connections click on Create New Connection.

Connection Name: Bocada

Identity name: select the Bocada identity name created in the previous step.

Connection Type: MS-SQL Server Using MS Generic Driver

Graphical user interface, text, application, email

Description automatically generated

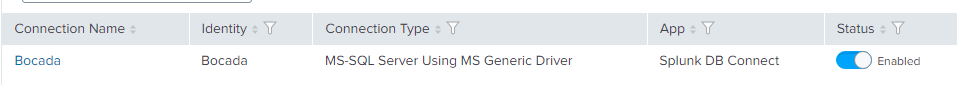
If there’s any problem connecting to Bocada Database, the following settings are recommended under JDBC URL field:

jdbc:sqlserver://{sqlservername};instanceName={optional};databaseName={Bocada Database Name};encrypt=true;trustServerCertificate=true;

Example: jdbc:sqlserver://sql1.testlab.com;instanceName=dev\_2016;databaseName=bocada;encrypt=true;trustServerCertificate=true;

Save the connection.

It would look like:



# Create Bocada Inputs

Bocada recommends create a new Index name named Bocada\_Data exclusively for Bocada.

This can be done under Settings – Indexes.

Graphical user interface, application, website

Description automatically generated

Unser Splunk DB Connect, select inputs, clock on New input.

For each input set the following values related to the Bocada Database settings created in the previous steps:

Graphical user interface, text, application, email

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#### Connection

* Bocada splunk db connection.

#### Catalog

* Bocada Sql Server database

#### Schema

* dbo

### Bocada\_Backup\_Servers

Input name: Bocada\_BackupServers

Table: Servers

#### SQL Editor:

SELECT server\_id, serverfqname, product\_id

FROM [dbo].[servers]

WHERE server\_id > ?

AND Serverstatus = 'active'

ORDER BY server\_id ASC

Input Type: Rising

Rising Column: server\_id

Checkpoint Value: 0

Source: Bocada\_BackupServers

Source type: Bocada\_ BackupServers

Index name: Bocada\_data

Execution Frecuency: Set the frecuency to refresh data. You don’t need to refresh the data constantly for servers nor BackupProducts tables.

### Bocada\_Backup\_Products

Input name: Bocada\_BackupProducts

Table: *backupproducts*

#### SQL Editor:

SELECT *product\_id,*

*productname,*

*reportdisplayname*

FROM [dbo].[*backupproducts]*

WHERE *product\_id > ?*

ORDER BY *product\_id*

Input Type: Rising

Rising Column: product\_id

Checkpoint Value: 0

Source: Bocada\_BackupProducts

Source type: Bocada\_BackupProducts

Index name: Bocada\_data

### Bocada\_Backups

Input name: Bocada\_Backups

Table: v\_backuplogall\_bi

#### SQL Editor:

SELECT [Backup Id] AS Backup\_Id

,[Status]

,[Product Name] AS Product\_Name

,[Server Name] AS BackupServer\_Name

,[Client Name] AS Client\_Name

,[Target Name] AS Target\_Name

,[Level Name] AS Level

,[Job Group] AS JobGroup

,[Policy Name] AS Policy

,[Schedule]

,[Backup type] AS Backup\_Type

,[Client Type] AS Client\_Type

,[Backup Day] AS Backup\_Day

,[Job Datetime] AS Job\_Datetime

,[Job Duration Seconds] AS Job\_Duration\_Seconds

,[Group Duration Seconds] AS Group\_Duration\_Seconds

,[Job Datetime Local] AS Job\_DatetimeLocal

,[Byte Count] AS Byte\_Count

,[File Count] AS File\_Count

,[Bytes Protected] AS Bytes\_Protected

,[Bytes Backed Up] AS Bytes\_BackedUp

,[Bytes Post Dedup] As Bytes\_PostDedup

,[Bytes Compressed] AS Bytes\_Compressed

,[Dedup Ratio] AS Dedup\_Ratio

,[Compression Ratio] As Compression\_Ratio

,[Total Reduction Ratio] AS Total\_Reduction\_Ratio

,[proprietarylevelname] AS Propietary\_LevelName

,[asset\_id] AS Asset\_Id

,[target\_id] AS Target\_Id

,[server\_id] AS Server\_Id

,[client\_id] AS Client\_Id

,backupgroup\_id

,[preferredassetname] AS Preferred\_AssetName

,[level\_id] AS Level\_Id

,[uncertainbytecount] AS UncertainByteCount

,[errorcount] AS Error\_Count

,[errorset] AS Error\_Set

,[propertyset] As Property\_Set

,[Job Description] AS Job\_Description

,[clientignore\_id]

,[ignoreuntildatetime]

,[timezone\_id]

,[expiredondatetime]

,[insertiontime]

,[slaprofile\_id]

,[backuppolicy\_id]

,[backuptype\_id]

,[proprietary\_backuptype]

,[proprietary\_client\_type]

FROM [dbo].[v\_backuplogall\_bi]

WHERE [Backup Id] > ?

ORDER BY [Backup Id] ASC

Input Type: Rising

Rising Column: Backup\_id

Checkpoint Value: 0

Connection timeout: 120 (it depends off your Bocada Database size)

Source: Bocada\_BackupProducts

Execution Frecuency: set frequency to get new data

Source type: Bocada\_BackupProducts

Index name: Bocada\_data

### Bocada\_Clients\_Per\_Zone

Input name: Bocada\_Clients\_Per\_Zone

Table: v\_clients\_zones\_all

#### SQL Editor:

SELECT [client\_id]

,[clientfqname]

,[nickname]

,[firstreferencedatetime]

,[lastreferencedatetime]

,[lastjobdatetime]

,[timezone\_id]

,[product\_id]

,[productname]

,[owner\_id]

,[ownername]

,[slaprofile\_id]

,[slaprofilename]

,[pricelist\_id]

,[pricelistname]

,[server\_id]

,[serverfqname]

,[servergroup]

,[lastupdateddatetime]

,[fqzonename]

,[zonetypename]

,[zonetype\_id]

,[isignored]

FROM [dbo].[v\_clients\_zones\_all]

WHERE lastupdateddatetime > ?

ORDER BY lastupdateddatetime ASC

Input Type: Rising

Rising Column: lastupdateddatetime

Checkpoint Value: 1/1/1970

Connection timeout: 120 (it depends off your Bocada Database size)

Source: Bocada\_Clients\_Per\_Zone

Execution Frecuency: set frequency to get new data

Source type: Bocada\_Clients\_Per\_Zone

Index name: Bocada\_data

### Bocada\_MediaInventory

Input name: Bocada\_MediaInventory

Table: groupclientpoolinventory

#### SQL Editor:

SELECT [server\_id]

,[client\_id]

,[mediagroup\_id]

,[mediapool\_id]

,[pulleddate]

,[inserteddate]

,[filecount]

,[bytecount]

,[bytecount\_dedup]

,[bytecount\_precompression]

,[bytecount\_metadata]

FROM [dbo].[groupclientpoolinventory]

WHERE [inserteddate] > ?

ORDER BY [inserteddate] ASC

Input Type: Rising - TimeStamp

Rising Column: inserteddate

Source: Bocada\_MediaInventory

Source type: Bocada\_MediaInventory

Index name: Bocada\_data

### Bocada\_StorageServers

Input name: Bocada\_StorageServers

Table: [dbo].[v\_storage\_server\_bi]

#### SQL Editor:

SELECT [Product] AS ProductName

,[Server\_id] AS server\_id

,[Server Name] AS ServerName

,[MediaPool\_id] AS mediaPool\_id

,[Media Pool Name] AS MediaPoolName

,[Volume\_id] AS volume\_id

,[Volume Name] AS VolumeName

,[PulledDate] AS pulleddate

,[Media Library] AS MediaLibrary

,[Online] AS OnLine

,[Volume Status] AS VolumeStatus

,[Volume Age] AS VolumeAge

,[Volume Capacity] AS VolumeCapacity

,[Volume Usage] AS VolumeUsage

,[Volume Free] AS VolumeFree

,[Pre Compression] AS PreCompression

,[Cleanable] AS Cleanable

,[Mounts] AS Mounts

,[Media Errors] AS MediaErrors

,[Times Frozen] AS TimesFrozen

FROM [dbo].[v\_storage\_server\_bi]

WHERE [PulledDate] > ?

ORDER BY [PulledDate] ASC

Input Type: Rising - TimeStamp

Rising Column: PulledDate

Source: Bocada\_StorageServers

Source type: Bocada\_StorageServers

Index name: Bocada\_data

The Bocada inputs would look like

A screenshot of a computer

Description automatically generated

# Bocada Search & Dashboard

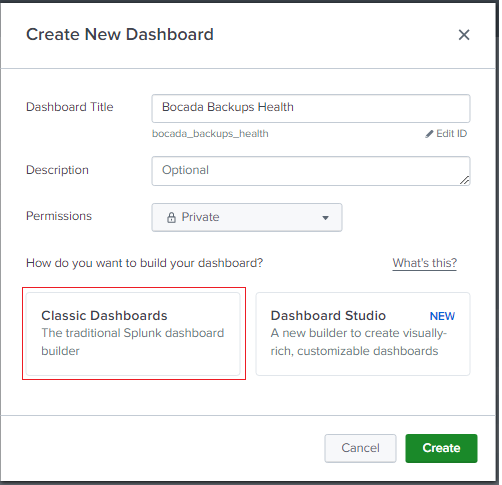
### Backups Health Dashboard

Includes the following charts:

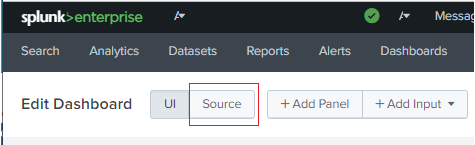
* Backup Health
* Backup Health Trends
* Backup Trends
* Backup Duration Trends
* Restore Health
* Job Activity Report

Steps to create the Bocada Dashboard in Splunk:

1. Under Dashboards select Create New Dashboard
2. Dashboard tile: **Bocada Backups Health**
3. Select Classic Dashboards
4. Click on Create



1. When the dashboard is created, select Source



1. Open the Bocada file Bocada\_BackupHealth\_Dashboard.xml with notepad or any other editor. Copy and paste the content of the file. Click **Save**. Would look like:

Graphical user interface, text, application

Description automatically generated

#### File: Bocada\_BackupHealth\_Dashboard.xml

<form version="1.1">

<label>Bocada Backups Health</label>

<search id="base\_search">

<query>index=bocada\_data sourcetype=Bocada\_Backups source="bocada\_backups"

|eval bytecount\_GB = Byte\_Count/1024/1024/1024 | eval earliest = $toearliest$ | eval latest=if($tolatest$ &lt; 0, now(), $tolatest$) | eval datefield = strptime($filterByJobDateTime$, "%Y-%m-%d%H:%M:%S") | eval \_time = datefield

|eval \_durationDays = Job\_Duration\_Seconds/60/60/24

|Where datefield &gt;= earliest AND datefield &lt;= latest

|table Backup\_Id, Status, Job\_Datetime, Product\_Name, BackupServer\_Name, Client\_Name, Targe\_Name, Level, Backup\_type, Policy, Schedule, JobGroup, Job\_Duration\_Seconds, \_durationDays, bytecount\_GB, Byte\_Count, Bytes\_Protected, Bytes\_BackedUp, Bytes\_PostDedup, Bytes\_Compressed, Server\_Id, Client\_Id, Backup\_Day, \_time

|fillnull value=""

| search Product\_Name=$filterByProduct$ BackupServer\_Name=$filterByServer$ JobGroup=$filterByJobGroup$ Level=$filterByLevel$ Policy=$filterByPolicy$

| join type=inner Client\_Id [SEARCH index=bocada\_data source="Bocada\_Clients\_Per\_Zone" | fillnull value="" | search zonetypename=$filterByZoneType$ | rename client\_id AS Client\_Id ]

</query>

</search>

<search>

<query>|makeresults</query>

<earliest>$timeToken.earliest$</earliest>

<latest>$timeToken.latest$</latest>

<progress>

<eval token="toearliest">strptime($job.earliestTime$, "%Y-%m-%dT%H:%M:%S.%3N%z")</eval>

<eval token="tolatest">strptime($job.latestTime$, "%Y-%m-%dT%H:%M:%S.%3N%z")</eval>

<set token="jobearliest">$job.earliestTime$</set>

<set token="joblatest">$job.latestTime$</set>

</progress>

</search>

<fieldset submitButton="false">

<input type="time" token="timeToken" searchWhenChanged="true">

<label>Time Picker</label>

<default>

<earliest>-7d@h</earliest>

<latest>now</latest>

</default>

</input>

<input type="dropdown" token="filterByJobDateTime">

<label>Job Date</label>

<choice value="Job\_Datetime">Job Date</choice>

<default>Job\_Datetime</default>

</input>

<input type="multiselect" token="filterByProduct">

<label>Backup Product</label>

<valuePrefix>"</valuePrefix>

<valueSuffix>"</valueSuffix>

<delimiter> OR </delimiter>

<fieldForLabel>reportdisplayname</fieldForLabel>

<fieldForValue>productname</fieldForValue>

<search>

<query>index=bocada\_data sourcetype="Bocada\_BackupServers" | join type=inner product\_id [ SEARCH index=bocada\_data source="Bocada\_BackupProducts"] | dedup reportdisplayname | table productname, reportdisplayname | sort reportdisplayname</query>

</search>

<choice value="\*">All</choice>

<default>\*</default>

</input>

<input type="multiselect" token="filterByServer">

<label>Server Name</label>

<valuePrefix>"</valuePrefix>

<valueSuffix>"</valueSuffix>

<delimiter> OR </delimiter>

<fieldForLabel>BackupServer\_Name</fieldForLabel>

<fieldForValue>BackupServer\_Name</fieldForValue>

<search base="base\_search">

<query>| dedup BackupServer\_Name | sort BackupServer\_Name</query>

</search>

<choice value="\*">All</choice>

<default>\*</default>

<initialValue>\*</initialValue>

</input>

<input type="multiselect" token="filterByJobGroup">

<label>Job Group</label>

<valuePrefix>"</valuePrefix>

<valueSuffix>"</valueSuffix>

<delimiter> OR </delimiter>

<fieldForLabel>JobGroup</fieldForLabel>

<fieldForValue>JobGroup</fieldForValue>

<search base="base\_search">

<query>| dedup JobGroup | sort JobGroup</query>

</search>

<choice value="\*">All</choice>

<default>\*</default>

<initialValue>\*</initialValue>

</input>

<input type="multiselect" token="filterByPolicy">

<label>Policy</label>

<valuePrefix>"</valuePrefix>

<valueSuffix>"</valueSuffix>

<delimiter> OR </delimiter>

<fieldForLabel>Policy</fieldForLabel>

<fieldForValue>Policy</fieldForValue>

<search base="base\_search">

<query>| dedup Policy | sort Policy</query>

</search>

<choice value="\*">All</choice>

<default>\*</default>

<initialValue>\*</initialValue>

</input>

<input type="multiselect" token="filterByLevel">

<label>Level</label>

<fieldForLabel>Level</fieldForLabel>

<fieldForValue>Level</fieldForValue>

<search base="base\_search">

<query>| dedup Level | sort Level</query>

</search>

<choice value="\*">All</choice>

<default>\*</default>

<initialValue>\*</initialValue>

<valuePrefix>"</valuePrefix>

<valueSuffix>"</valueSuffix>

<delimiter> OR </delimiter>

</input>

<input type="multiselect" token="filterByZoneType">

<label>Zone Type</label>

<fieldForLabel>zonetypename</fieldForLabel>

<fieldForValue>zonetypename</fieldForValue>

<search>

<query>index=bocada\_data sourcetype=Bocada\_Clients\_Per\_Zone source=Bocada\_Clients\_Per\_Zone |dedup zonetypename | sort zonetypename | table zonetypename </query>

</search>

<choice value="\*">All</choice>

<default>\*</default>

<initialValue>\*</initialValue>

<prefix>"</prefix>

<suffix>"</suffix>

</input>

</fieldset>

<row>

<panel>

<title>Backup Health</title>

<chart>

<search base="base\_search">

<query> | stats count(Backup\_Id) AS Jobs by Status | sort Status

</query>

</search>

<option name="charting.chart">pie</option>

<option name="charting.drilldown">all</option>

<option name="charting.fieldColors">{"Failure": c80100, "Partial Success": efad00, "Success": 028200}</option>

<option name="height">249</option>

</chart>

</panel>

<panel>

<title>Restore Health</title>

<chart>

<search base="base\_search">

<query>| stats count(eval(Level="Restore")) AS Jobs by Status| sort Status</query>

</search>

<option name="charting.chart">pie</option>

<option name="charting.drilldown">all</option>

<option name="charting.fieldColors">{"Failure": c80100, "Partial Success": efad00, "Success": 028200}</option>

<option name="height">249</option>

</chart>

</panel>

</row>

<row>

<panel>

<title>Backup Health Trends</title>

<chart>

<search base="base\_search">

<query>| stats count AS Jobs By Backup\_Day, Status | sort Backup\_Day, Status | xyseries Backup\_Day, Status, Jobs

</query>

</search>

<option name="charting.axisTitleX.text">Backup Day</option>

<option name="charting.axisTitleY.text">Jobs</option>

<option name="charting.chart">column</option>

<option name="charting.chart.stackMode">stacked</option>

<option name="charting.drilldown">all</option>

<option name="charting.fieldColors">{"Failure": c80100, "Partial Success": efad00, "Success": 028200}</option>

</chart>

</panel>

</row>

<row>

<panel>

<title>Backup Trends</title>

<chart>

<search base="base\_search">

<query>| stats sum(bytecount\_GB) As ByteCount\_GB By BackupServer\_Name, Backup\_Day | sort Backup\_Day

| xyseries Backup\_Day, BackupServer\_Name, ByteCount\_GB

</query>

</search>

<option name="charting.axisTitleX.visibility">collapsed</option>

<option name="charting.axisTitleY.text">Byte Counts GB</option>

<option name="charting.chart">column</option>

<option name="charting.chart.stackMode">stacked</option>

<option name="charting.drilldown">all</option>

<option name="height">249</option>

</chart>

</panel>

<panel>

<title>Backup Duration Trends</title>

<chart>

<search base="base\_search">

<query>| stats sum(\_durationDays) As Duration By BackupServer\_Name, Backup\_Day | sort Backup\_Day

| xyseries Backup\_Day, BackupServer\_Name, Duration

</query>

</search>

<option name="charting.axisTitleX.visibility">collapsed</option>

<option name="charting.axisTitleY.text">Duration Days</option>

<option name="charting.chart">column</option>

<option name="charting.chart.stackMode">stacked</option>

<option name="charting.drilldown">all</option>

<option name="height">249</option>

</chart>

</panel>

</row>

<row>

<panel>

<title>Backup Jobs</title>

<table>

<search base="base\_search">

<query>| sort Backup\_Id

</query>

</search>

</table>

</panel>

</row>

<row>

<panel depends="$hidePanel$">

<table>

<title>Token Values</title>

<search>

<query>| makeresults

| eval timeTokenearliest = "$timeToken.earliest$"

| eval timeTokenlatest = "$timeToken.latest$"

| eval jobearliest = "$jobearliest$"

| eval joblatest = "$joblatest$"

| eval toearliest = "$toearliest$"

| eval tolatest = "$tolatest$"

| table timeTokenearliest, timeTokenlatest,jobearliest,joblatest </query>

<earliest>$timeToken.earliest$</earliest>

<latest>$timeToken.latest$</latest>

</search>

<option name="drilldown">none</option>

</table>

</panel>

</row>

</form>

### Bocada Storage Dashboard

Includes the following charts:

* Storage Trends
* Data Domain Utilization
* Data Domain Utilization Trends
* Store Once Utilization
* Store Once Utilization Trends

Steps to create the Bocada Dashboard in Splunk:

1. Under Dashboards select Create New Dashboard
2. Dashboard tile: **Bocada Storage Health**
3. Select Classic Dashboards
4. Click on Create
5. When the dashboard is created, select Source
6. Open the Bocada file Bocada\_StorageHealth\_Dashboard.xml with notepad or any other editor. Copy and paste the content of the file. Click **Save**. Would look like:

Graphical user interface, text, application

Description automatically generated

#### File: Bocada\_StorageHealth\_Dashboard.xml

<form version="1.1">

<label>Bocada Storage Health</label>

<search id="storage\_search">

<query>index=bocada\_data sourcetype="bocada\_mediainventory" source="Bocada\_MediaInventory"

|fillnull value=""

|join type=inner server\_id [ SEARCH index=bocada\_data sourcetype=Bocada\_BackupServers source=Bocada\_BackupServers]

|join type=inner product\_id [ SEARCH index=bocada\_data source="Bocada\_BackupProducts"]

|eval postcompression\_TB = bytecount/1024/1024/1024/1024

|eval earliest = $toearliest$ | eval latest=if($tolatest$ &lt; 0, now(), $tolatest$) | eval datefield = strptime($filterByDateTime$, "%Y-%m-%d%H:%M:%S") | eval \_time = datefield

|eval inventoryDate=strftime(datefield, "%b %d, %Y")

|Where datefield &gt;= earliest AND datefield &lt;= latest

|table inventoryDate, serverfqname, productname, reportdisplayname, server\_id, product\_id, postcompression\_TB , bytecount\_dedup, bytecount\_precompression, bytecount\_metadata, filecount, server\_id, client\_id,

mediagroup\_id, mediapool\_id, \_time, inserteddate, pulleddate

|rename serverfqname as "ServerName"

</query>

</search>

<search id="datadomain\_search">

<query> index=bocada\_data sourcetype=Bocada\_StorageServers source=Bocada\_StorageServers

|eval earliest = $toearliest$ | eval latest=if($tolatest$ &lt; 0, now(), $tolatest$) | eval datefield = strptime($filterByDateTime$, "%Y-%m-%d%H:%M:%S") | eval \_time = datefield

|eval inventoryDate=strftime(datefield, "%b %d, %Y")

|Where datefield &gt;= earliest AND datefield &lt;= latest

|eval volumeUsage\_TB = VolumeUsage/1024/1024/1024/1024

|eval volumeFree\_TB = VolumeFree/1024/1024/1024/1024

|eval volumeCapacity\_TB = VolumeCapacity/1024/1024/1024/1024

|eval preCompression\_TB = PreCompression/1024/1024/1024/1024

|eval cleaneable\_TB = Cleaneable/1024/1024/1024/1024

|table inventoryDate, ProductName, ServerName, MediaPoolName, MediaLibrary, VolumeName, volumeUsage\_TB, volumeFree\_TB, volumeCapacity\_TB, cleaneable\_TB, preCompression\_TB, VolumeFree, VolumeUsage, VolumeCapacity, \_time, pulleddate

|fillnull value="0"

|search ServerName=$filterByServer$

</query>

</search>

<search>

<query>|makeresults</query>

<earliest>$timeToken.earliest$</earliest>

<latest>$timeToken.latest$</latest>

<progress>

<eval token="toearliest">strptime($job.earliestTime$, "%Y-%m-%dT%H:%M:%S.%3N%z")</eval>

<eval token="tolatest">strptime($job.latestTime$, "%Y-%m-%dT%H:%M:%S.%3N%z")</eval>

<set token="jobearliest">$job.earliestTime$</set>

<set token="joblatest">$job.latestTime$</set>

</progress>

</search>

<fieldset submitButton="false">

<input type="time" token="timeToken" searchWhenChanged="true">

<label>Time Picker</label>

<default>

<earliest>-7d@h</earliest>

<latest>now</latest>

</default>

</input>

<input type="dropdown" token="filterByDateTime">

<label>Inventory Date</label>

<choice value="pulleddate">Inventory Date</choice>

<default>pulleddate</default>

</input>

<input type="multiselect" token="filterByProduct">

<label>Backup Product</label>

<valuePrefix>"</valuePrefix>

<valueSuffix>"</valueSuffix>

<delimiter> OR </delimiter>

<fieldForLabel>reportdisplayname</fieldForLabel>

<fieldForValue>productname</fieldForValue>

<search base="storage\_search">

<query>| dedup productname, reportdisplayname | sort reportdisplayname</query>

</search>

<choice value="\*">All</choice>

<default>\*</default>

</input>

<input type="multiselect" token="filterByServer">

<label>Server Name</label>

<valuePrefix>"</valuePrefix>

<valueSuffix>"</valueSuffix>

<delimiter> OR </delimiter>

<fieldForLabel>ServerName</fieldForLabel>

<fieldForValue>ServerName</fieldForValue>

<search base="storage\_search">

<query>| dedup ServerName | sort ServerName</query>

</search>

<choice value="\*">All</choice>

<default>\*</default>

<initialValue>\*</initialValue>

</input>

</fieldset>

<row>

<panel>

<title>Storage Trend</title>

<chart>

<search base="storage\_search">

<query> | stats sum(postcompression\_TB) AS VolumeUsage by inventoryDate, ServerName | sort pulleddate

| xyseries inventoryDate, ServerName, VolumeUsage

</query>

</search>

<option name="charting.axisLabelsX.majorLabelStyle.rotation">0</option>

<option name="charting.axisTitleX.visibility">collapsed</option>

<option name="charting.axisTitleY.text">TB</option>

<option name="charting.chart">column</option>

<option name="charting.chart.stackMode">stacked100</option>

<option name="charting.drilldown">all</option>

<option name="height">249</option>

</chart>

</panel>

</row>

<row>

<panel>

<title>Data Domain Utilization</title>

<chart>

<search base="datadomain\_search">

<query> | search ProductName="Data Domain"

| stats sum(volumeUsage\_TB) AS VolumeUsage, sum(volumeFree\_TB) AS VolumeFree by inventoryDate, ServerName | sort pulleddate

| xyseries inventoryDate, ServerName, VolumeUsage, VolumeFree

</query>

</search>

<option name="charting.axisLabelsX.majorLabelStyle.rotation">0</option>

<option name="charting.axisTitleX.visibility">collapsed</option>

<option name="charting.axisTitleY.visibility">collapsed</option>

<option name="charting.axisTitleY2.visibility">collapsed</option>

<option name="charting.chart">column</option>

<option name="charting.chart.overlayFields">VolumeCapacity</option>

<option name="charting.chart.showDataLabels">none</option>

<option name="charting.chart.stackMode">stacked</option>

<option name="charting.drilldown">all</option>

<option name="charting.fieldColors">{"VolumeUsage": c80100, "VolumeFree": 028200}</option>

<option name="charting.layout.splitSeries">0</option>

<option name="charting.legend.placement">right</option>

<option name="height">249</option>

<option name="trellis.enabled">1</option>

<option name="trellis.scales.shared">0</option>

<option name="trellis.splitBy">ServerName</option>

</chart>

</panel>

<panel>

<title>Data Domain Utilization Trends</title>

<chart>

<search base="datadomain\_search">

<query> | search ProductName="Data Domain"

| stats sum(volumeUsage\_TB) AS Used, sum(volumeFree\_TB) AS Free, sum(cleaneable\_TB) as Cleaneable, sum(volumeCapacity\_TB) as Capacity by inventoryDate | sort pulleddate

</query>

</search>

<option name="charting.axisTitleX.visibility">collapsed</option>

<option name="charting.axisTitleY.text">TB</option>

<option name="charting.chart">line</option>

<option name="charting.fieldColors">{"Used": c80100, "Free": 028200, "Capacity":349beb, "Cleaneable": eba234}</option>

<option name="charting.drilldown">all</option>

</chart>

</panel>

</row>

<row>

<panel>

<title>Store Once Utilization</title>

<chart>

<search base="datadomain\_search">

<query> | search ProductName="\*StoreOnce\*"

| stats sum(volumeUsage\_TB) AS VolumeUsage, sum(volumeFree\_TB) AS VolumeFree by inventoryDate | sort pulleddate

</query>

</search>

<option name="charting.axisLabelsX.majorLabelStyle.rotation">0</option>

<option name="charting.axisTitleX.visibility">visible</option>

<option name="charting.axisTitleY.visibility">visible</option>

<option name="charting.axisTitleY2.visibility">visible</option>

<option name="charting.chart">column</option>

<option name="charting.chart.overlayFields">VolumeCapacity</option>

<option name="charting.chart.showDataLabels">none</option>

<option name="charting.chart.stackMode">stacked</option>

<option name="charting.drilldown">all</option>

<option name="charting.fieldColors">{"VolumeUsage": c80100, "VolumeFree": 028200}</option>

<option name="charting.layout.splitSeries">0</option>

<option name="charting.legend.placement">right</option>

<option name="height">249</option>

</chart>

</panel>

<panel>

<title>Store Once Utilization Trends</title>

<chart>

<search base="datadomain\_search">

<query> | search ProductName="\*StoreOnce\*"

| stats sum(volumeUsage\_TB) AS Used, sum(volumeFree\_TB) AS Free, sum(cleaneable\_TB) as Cleaneable, sum(volumeCapacity\_TB) as Capacity by inventoryDate | sort pulleddate

</query>

</search>

<option name="charting.axisTitleX.visibility">collapsed</option>

<option name="charting.axisTitleY.text">TB</option>

<option name="charting.chart">line</option>

<option name="charting.fieldColors">{"Used": c80100, "Free": 028200, "Capacity":349beb, "Cleaneable": eba234}</option>

<option name="charting.drilldown">all</option>

</chart>

</panel>

</row>

<row>

<panel>

<title>Media Inventory</title>

<table>

<search base="storage\_search">

<query>| sort pulleddate

</query>

</search>

</table>

</panel>

</row>

<row>

<panel depends="$hidePanel$">

<table>

<title>Token Values</title>

<search>

<query>| makeresults

| eval timeTokenearliest = "$timeToken.earliest$"

| eval timeTokenlatest = "$timeToken.latest$"

| eval jobearliest = "$jobearliest$"

| eval joblatest = "$joblatest$"

| eval toearliest = "$toearliest$"

| eval tolatest = "$tolatest$"

| table timeTokenearliest, timeTokenlatest,jobearliest,joblatest </query>

<earliest>$timeToken.earliest$</earliest>

<latest>$timeToken.latest$</latest>

</search>

<option name="drilldown">none</option>

</table>

</panel>

</row>

</form>

# Technical Support

For technical support or a copy of our standard support agreement, please contact us.

**E-mail:** [support@bocada.com](mailto:support@bocada.com)

**Support Portal:** <http://www.bocada.com/support/>

**Phone:** +1-425-898-2400