A Tool to Export Isilon Quotas

Adam Fox, Isilon Corporate Advisory Engineer [adam.fox@emc.com]

Summary

This tool, called export_quotas is a Python script that will grab the quotas from an Isilon cluster and export them to a .csv file which can then be imported into several tools for further reporting. The script is written in Python 2.7, but included in the package is a Windows package that can be run on a Windows system without Python installed. The source code is included and anyone is free to modify it to their liking. Please be aware that this tool is not officially supported by EMC/Isilon and any support will be by the author which is done in spare time so there are no SLAs or support agreements included with this tool.

Requirements

The tool was written in Python 2.7 but other versions may work. I have tested it with the 2.6.1 that ships with OneFS and it works. Of course, the Windows binary doesn't need any of it.

If the tool is run from a system with Python installed, then the only files that are needed are quota_export.py and papi.py. If the Windows binary is used, all of the files in the bundle should be kept together to ensure that the proper libraries can be used.

The tool can be run on the cluster if desired but it is not required.

Authentication

Since the tool uses the API, the user must provide credentials so that the cluster knows the user is authorized to make the API calls. Of course, the root and admin (or compadmin in a compliance cluster) will work, however, the minimum privileges required are ISI_PRIV_LOGIN_PAPI and read access to ISI_PRIV_QUOTA. The script will prompt the user for a user and password. The password is not echoed to the screen and all API calls are encrypted via HTTPS.

Syntax

The syntax of the tool is as follows:

quota_export[.py] {-c | --cluster} cluster_name_or_ip [{-r | --raw} [{-h | --help}]

-c | --cluster : Specifies the name or IP of any node of the cluster.
-r | --raw : This flag shows the quotas in bytes. The default is to covert to MB, GB, TB to make it easier to read.
-h | --help : This prints the usage message

Keep in mind that if the script is running on the cluster under /ifs, the user will have to call 'python' explicitly as user scripts will not automatically run from /ifs on the cluster

The script outputs to the screen but the user can use file redirection to send the output to a file. The output is currently formatted to match the output of the command 'isi quota quotas list'.