

Missing feature - Global search across multiple CMA

Preface

Before R80.x in a MDM (Multi Domain Management) you could do a search where an object is used in all the CMA's.

Until now (R80.30) this feature is not included in SmartConsole anymore.

Script solution

- <https://github.com/WadesWeaponShed/Global-IP-Search-MDS>
- <https://community.checkpoint.com/t5/API-CLI-Discussion-and-Samples/MDS-Global-search-across-CMAs-by-IP/m-p/75906>
- <https://community.checkpoint.com/t5/API-CLI-Discussion-and-Samples/Search-multiple-CMA/m-p/35237>

The Script

```
#!/bin/sh

JQ=${CPDIR}/jq/jq

OBJECT_NAME=$1
DOMAINS_FILE="domains.json"
PACKAGES_FILE="packages.json"
PACKAGE_FILE="package.json"

echo 'Getting a list of domains...'
mgmt_cli -r true -d MDS show domains limit 500 --format json > $DOMAINS_FILE
if [ $? -eq 1 ]; then
    echo "Error getting list of domains. Aborting!"
    exit 1
fi
```

```

DOMAINS_NAMES=$(($JQ -r ".objects[] | .name" $DOMAINS_FILE))

echo 'Searching for object "$OBJECT_NAME" in all domains...'
FOUND=0
OBJECT_UID=""

for DOMAIN in ${DOMAINS_NAMES[@]}
do
    echo 'Searching in domain "$DOMAIN"...'
    mgmt_cli -r true -d "$DOMAIN" show objects offset 0 limit 1 in.1 name in.2 "$OBJECT_NAME" --format json >
$OBJECT_NAME.json
    if [ $? -ne 1 ]; then
        OBJECT_COUNT=$(($JQ -r ".total" $OBJECT_NAME.json)
        if [ $OBJECT_COUNT -ne 0 ]; then
            FOUND=1
            OBJECT_UID=$(($JQ -r ".objects[0].uid" $OBJECT_NAME.json)
            echo 'Found in domain "$DOMAIN"!!!'
            break
        fi
    fi
done

if [ $FOUND -ne 1 ]; then
    echo 'Object "$OBJECT_NAME" does not exist. Aborting!'
    exit 1
fi

echo 'Searching for object "$OBJECT_NAME" usages in all policy packages in all domains...'
for DOMAIN in ${DOMAINS_NAMES[@]}
do
    echo 'Searching in domain "$DOMAIN"...'
    mgmt_cli -r true -d "$DOMAIN" show packages limit 500 --format json > $PACKAGES_FILE
    if [ $? -ne 1 ]; then
        PACKAGES_NAMES=$(($JQ -r ".packages[] | .name" $PACKAGES_FILE))
        for PACKAGE in ${PACKAGES_NAMES[@]}
        do
            echo 'Searching in package "$PACKAGE"...'
            mgmt_cli -r true -d "$DOMAIN" show-package name $PACKAGE --format json > $PACKAGE_FILE
            if [ $? -ne 1 ]; then
                ACCESS_LAYERS=$(($JQ '["access-layers"][] | .name' -r $PACKAGE_FILE))
            fi
        done
    fi
done

```

```
for LAYER in ${ACCESS_LAYERS[@]}
do
    mgmt_cli -r true -d "$DOMAIN" show access-rulebase package "$PACKAGE" name "$LAYER" offset 0 limit 1
filter $OBJECT_UID --format json > $OBJECT_NAME.json
    if [ $? -ne 1 ]; then
        OBJECT_COUNT=$(jq -r ".total" $OBJECT_NAME.json)
        if [ $OBJECT_COUNT -ne 0 ]; then
            echo 'The requested object is used in policy package "'$PACKAGE'"
            break
        fi
    fi
done
fi
done
fi
done

echo 'Done!'
```

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