



Guidelines for using the Snap Creator command-line interface

Snap Creator Framework

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Guidelines for using the Snap Creator command-line interface

Snap Creator provides command-line functionality that enables you to perform various actions without using the graphical user interface (GUI). For instance, you can create a backup, clone a volume or LUN, and import configuration files from the command-line interface (CLI).

To view a comprehensive list of all the commands and associated parameters, you should execute Snap Creator at the command prompt with no arguments: `/install_path/scServer/snapcreator`

```
[root@lyon scServer4.3.0]# ./snapcreator
Usage: ./snapcreator --server <IP> --port <Port> --user <User> --passwd
<Passwd> --profile <Profile> --config <Config> --action <Action> --policy
<Policy> <Optional Arguments>

Connection Information
  --server <IP|Hostname>      The IP address or hostname of the Snap
Creator server
  --port <number>             The port number of the Snap Creator server
  --user <user>               The username used for Snap Creator server
authentication
  --passwd <password>        The password used for Snap Creator server
authentication

Configuration Information
  --profile <Profile>         The profile you want to run
                              Profiles are dir's located under configs dir
                              Uses default config, unless --config is
specified
  list                         Displays all configurations known to Snap
Creator

Workflow Actions
  --action <Action>          The action you want Snap Creator to perform
  backup                      Takes a backup using NetApp storage
                              technology
  ossv                         Uses OSSV to perform the backup, no primary
backup is taken
  cloneLun                    In addition to backup will clones lun(s)
                              using lun clone
  cloneVol                    In addition to backup will clones volume
                              using vol clone
  cloneDel                    Deletes vol clones outside of normal workflow
clone
  clone                       Performs a plug-in driven clone operation
```

restore given volume restore	Enters an interactive restore menu for a Snap Creator policy, you can choose a file or
backupDel a given	Enters an interactive backup delete menu for Snap Creator policy
backupList	Lists all backups under Snap Creator control
volumeList	Lists all volumes under Snap Creator control
cloneList	Lists all volume clones under Snap Creator
control	
dpstatus	Shows the snapvault/snapmirror status
pmsetup given config	Creates a Protection Manager DataSet for
arch	Does not take backup, only performs archive log management
quiesce APP_NAME	Does not take backup, only performs quiesce for given application defined in
unquiesce APP_NAME	Does not take backup, only performs unquiesce for given application defined in
discover APP_NAME	Does not take backup, only performs discover for given application defined in
mount mount commands	Clone an existing backup and provide optional
umount umount commands	Clone an existing backup and provide optional
scdump for a given profile	Dumps logs, configs, and support information in a zip file called scdump located under
Snap Creator root directory	
custom	A plug-in may define a custom action
dispatch exists	Executes any Snap Creator workflow that
...	

If the incorrect username or password is provided when using the Snap Creator CLI, the following error message is displayed: 403 Forbidden ----- The username and password are not correct

Snap Creator CLI commands for workflow actions

You can use command-line interface (CLI) commands to perform various Snap Creator

workflow actions that are based on the graphical user interface (GUI).

The following table provides the CLI commands for performing Snap Creator GUI-based workflow actions:

Workflow area	Action/description	Command and associated parameters
Backups	Create a backup copy. Performs a backup operation based on the configuration file associated with the profile.	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action backup --policy Policy --verbose </pre>
Create an Open Systems SnapVault backup. Performs a backup operation using Open Systems SnapVault. This requires Snap Creator Agent. Snap Creator Server communicates with Snap Creator Agent and performs a SnapVault update. No primary backup copy is made.	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action ossv --policy Policy --verbose </pre>	Backups (contd...)
Delete a backup copy (manually). Manually deletes an existing backup. This operation is menu-driven.	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action backupDel --policy Policy --verbose </pre>	Delete a backup copy (automatically).

Workflow area	Action/description	Command and associated parameters
<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action backupDel --policy Policy --verbose --nonInteractive --cntName controller --volName volume --backupName name </pre>	<p>List backup copies. Lists the Snap Creator backup copies on the primary and secondary storage systems.</p>	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action backupList --policy Policy --verbose </pre>
<p>Mount a backup copy. Performs the mount operation on an existing backup. Creates a volume clone based on the backup, and enables the mounting of the clone through Snap Creator Agent using the MOUNT_CMD command.</p>	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action mount --backupName name --verbose </pre>	<p>Backups (contd...)</p>
<p>Unmount a backup copy. Performs the unmount operation on an existing backup. Deletes a volume clone based on the backup, and enables the unmounting of the clone through Snap Creator Agent using the UMOUNT_CMDs command.</p>	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action umount --backupName name --verbose </pre>	<p>Backup types</p>

Workflow area	Action/description	Command and associated parameters
Create a new backup type.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action backupTypeAdd --backupTypeName name --verbose </pre>	Update an existing backup type.
<pre> snapcreator --server IP --port Port --user User --passwd Password --action backupTypeUpdate --backupTypeId 1 --backupTypeName name --verbose </pre>	Delete an existing backup type.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action backupTypeDelete --backupTypeId 1 --verbose </pre>
List the backup types.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action backupTypeList --verbose </pre>	Clones

Workflow area	Action/description	Command and associated parameters
<p>Clone a LUN. Backs up the primary storage system and then clones the backup using a LUN clone. The volume mapping of igroups is also handled. This requires a SAN or iSAN environment.</p>	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action cloneLun --policy Policy --verbose </pre>	<p>Clone a volume. Backs up the primary storage system and then clones the backup using a volume clone. The volume mapping of igroups, NFS, or CIFS is also handled. This requires a SAN, iSAN, or NAS environment.</p>
<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action cloneVol --policy Policy --verbose </pre>	<p>Delete a clone. Performs a clone deletion operation based on the specified retention policy. Only one copy of the LUN clone is retained. Volume clones have policy-associated usage.</p>	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action cloneDel --policy Policy --verbose </pre>
<p>List Snap Creator clones. Lists the Snap Creator volume clones for the given configuration.</p>	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action cloneList --verbose </pre>	<p>List Snap Creator volumes. Lists the Snap Creator volumes for the specified configuration on the primary storage system.</p>

Workflow area	Action/description	Command and associated parameters
<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action volumeList --verbose </pre>	Configuration files	Import a configuration.
<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action configImport --importFile file_path --verbose </pre>	Export a configuration.	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action configExport --exportFile file_path --verbose </pre>
Import a global configuration file.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action globalImport --importFile file_path --verbose </pre>	Export a global configuration file.

Workflow area	Action/description	Command and associated parameters
<pre> snapcreator --server IP --port Port --user User --passwd Password --action globalExport --ExportFile file_path --verbose </pre>	Delete a global configuration file from the repository.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action globalDelete --verbose </pre>
Configuration files (contd...)	Import a global configuration file for a particular profile to the repository.	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --action profileglobalImport --importFile file_path --verbose </pre>
Export a global configuration file for a particular profile from the repository.	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --action profileglobalExport --exportFile file_path --verbose </pre>	Delete a global configuration for a particular profile from the repository.

Workflow area	Action/description	Command and associated parameters
<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --action profileglobalDelete --verbose </pre>	<p>Upgrade older configuration files in a profile. Adds newly introduced parameters to older configuration files. Before executing this command, all old configuration files must be copied to the scServer/engine/configs folder along with the profile folder.</p>	<pre> snapcreator --server IP --port port --user userid --passwd password --upgradeConfigs --profile profile_name --verbose </pre>
<p>Jobs</p>	<p>List all jobs and their status.</p>	<pre> snapcreator --server IP --port Port --user User --passwd Password --action jobStatus --verbose </pre>
<p>Policy</p>	<p>Add a new local policy.</p>	<pre> snapcreator --server IP --port Port --user User --passwd Password --action policyAdd --schedId 1 --backupTypeId 1 --policyType local --policyName testPolicy --primaryCount 7 --primaryAge 0 --verbose </pre>

Workflow area	Action/description	Command and associated parameters
Policy (contd...)	Add a new SnapMirror policy.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action policyAdd --schedId 1 --backupTypeId 1 --policyType snapmirror --policyName testPolicy --primaryCount 7 --primaryAge 0 --verbose </pre>
Add a new SnapVault policy.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action policyAdd --schedId 1 --backupTypeId 1 --policyType snapvault --policyName testPolicy --primaryCount 7 --primaryAge 0 --secondaryCount 30 --secondaryAge 0 --verbose </pre>	Update a SnapMirror policy.

Workflow area	Action/description	Command and associated parameters
<pre> snapcreator --server IP --port Port --user User --passwd Password --action policyUpdate --policyId 1 --schedId 1 --backupTypeId 1 --policyType snapmirror --policyName testPolicy --primaryCount 7 --primaryAge 0 --verbose </pre>	Policy (contd...)	Update a SnapVault policy.
<pre> snapcreator --server IP --port Port --user User --passwd Password --action policyUpdate --policyId 1 --schedId 1 --backupTypeId 1 --policyType snapvault --policyName testPolicy --primaryCount 7 --primaryAge 0 --secondaryCount 30 --secondaryAge 0 --verbose </pre>	Delete a policy.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action policyDelete --policyId 1 --verbose </pre>

Workflow area	Action/description	Command and associated parameters
List all policies.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action policyList --verbose </pre>	Show additional details for a particular policy.
<pre> snapcreator --server IP --port Port --user User --passwd Password --action policyDetails --policyId 1 --verbose </pre>	Assign policies to a profile.	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --action policyAssignToProfile --policies testPolicy --verbose </pre>
Policy (contd...)	Undo the assignment of policies for a profile.	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --action policyUnassignFromProfile --verbose </pre>

Workflow area	Action/description	Command and associated parameters
List all policies assigned to a profile.	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --action policyListForProfile --verbose </pre>	Policy schedules
Create an hourly policy schedule.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action policySchedAdd --schedName HourlyBackup --schedFreqId 2 --schedActionId 1 --schedMin minute --schedActive true --verbose </pre>	Create a daily policy schedule.

Workflow area	Action/description	Command and associated parameters
<pre> snapcreator --server IP --port Port --user User --passwd Password --action policySchedAdd --schedName DailyBackup --schedFreqId 3 --schedActionId 1 --schedHour hour --schedMin minute --schedActive true --verbose </pre>	Policy schedules (contd...)	Create a weekly policy schedule.
<pre> snapcreator --server IP --port Port --user User --passwd Password --action policySchedAdd --schedName WeeklyBackup --schedFreqId 4 --schedActionId 1 --schedDayOfWeek day_of_week --schedHour hour --schedMin minute --schedActive true --verbose </pre>	Create a cron policy schedule.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action policySchedAdd --schedName CronBackup --schedFreqId 5 --schedActionId 1 --schedCron '0 0/5 14,18 * * ?' --schedActive true --verbose </pre>

Workflow area	Action/description	Command and associated parameters
Update an hourly policy schedule.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action policySchedUpdate --schedId 1 --schedName HourlyBackup --schedFreqId 2 --schedActionId 1 --schedMin minute --schedActive true --verbose </pre>	Policy schedules (contd...)
Update a daily policy schedule.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action policySchedUpdate --schedId 1 --schedName DailyBackup --schedFreqId 3 --schedActionId 1 --schedHour hour --schedMin minute --schedActive true --verbose </pre>	Update a weekly policy schedule.

Workflow area	Action/description	Command and associated parameters
<pre> snapcreator --server IP --port Port --user User --passwd Password --action policySchedUpdate --schedId 1 --schedName WeeklyBackup --schedFreqId 4 --schedActionId 1 --schedDayOfWeek day_of_week --schedHour hour --schedMin minute --schedActive true --verbose </pre>	<p>Update a cron policy schedule.</p>	<pre> snapcreator --server IP --port Port --user User --passwd Password --action policySchedUpdate --schedId 1 --schedName CronBackup --schedFreqId 5 --schedActionId 1 --schedCron '0 0/5 14,18 * * ?' --schedActive true --verbose </pre>
<p>Policy schedules (contd...)</p>	<p>Delete a policy schedule.</p>	<pre> snapcreator --server IP --port Port --user User --passwd Password --action policySchedDelete --schedId 1 --verbose </pre>
<p>List policy schedules.</p>	<pre> snapcreator --server IP --port Port --user User --passwd Password --action policySchedList --verbose </pre>	<p>Show additional information about a policy schedule.</p>

Workflow area	Action/description	Command and associated parameters
<pre> snapcreator --server IP --port Port --user User --passwd Password --action policyScheduledDetails --schedId 1 --verbose </pre>	Profiles	Create a new profile.
<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --action profileCreate --verbose </pre>	Delete a profile. Note: The configuration files in the profile are also deleted.	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --action profileDelete --verbose </pre>
Restore	Perform interactive restore.Performs an interactive file restore operation or an interactive volume restore operation for a given policy.	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action restore --policy Policy --verbose </pre>

Workflow area	Action/description	Command and associated parameters
<p>Perform non-interactive volume restore. Performs a non-interactive volume restore.</p>	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action restore --policy Policy --verbose --nonInteractive --cntName controller --volName volume --backupName name </pre>	<p>Perform non-interactive file restore. Performs a non-interactive file restore.</p>
<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action restore --policy Policy --verbose --nonInteractive --cntName controller --volName volume --backupName name --files file_path1,file_path2 ,etc. </pre>	<p>Schedules</p>	<p>Create a new hourly schedule.</p>

Workflow area	Action/description	Command and associated parameters
<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action schedCreate --policy Policy --schedName HourlyBackup --schedFreqId 2 --schedActionId 1 --schedMin minute --schedActive true --schedStartDate date --verbose </pre>	<p>Create a new daily schedule.</p>	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action schedCreate --policy Policy --schedName DailyBackup --schedFreqId 3 --schedActionId 1 --schedHour hour --schedMin minute --schedActive true --schedStartDate date --verbose </pre>
<p>Create a new weekly schedule.</p>	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action schedCreate --policy Policy --schedName WeeklyBackup --schedFreqId 4 --schedActionId 1 --schedDayOfWeek day_of_week --schedHour hour --schedMin minute --schedActive true --schedStartDate date --verbose </pre>	<p>Schedules (contd...)</p>

Workflow area	Action/description	Command and associated parameters
Create a new cron schedule.	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action schedCreate --policy Policy --schedName CronBackup --schedFreqId 5 --schedActionId 1 --schedCron "0 0/5 14,18 * * ?" --schedActive true --schedStartDate date --verbose </pre>	Run a schedule.
<pre> snapcreator --server IP --port Port --user User --passwd Password --action schedRun --schedId 1 --verbose </pre>	Delete a schedule.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action schedDelete --schedId 10 --verbose </pre>

Workflow area	Action/description	Command and associated parameters
Update an hourly schedule.	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action schedUpdate --policy Policy --schedName HourlyBackup --schedFreqId 2 --schedId 1 --schedActionId 1 --schedMin minute --schedActive true --schedStartDate date --verbose </pre>	Schedules (contd...)
Update a daily schedule.	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action schedUpdate --policy Policy --schedName DailyBackup --schedFreqId 3 --schedId 1 --schedActionId 1 --schedHour hour --schedMin minute --schedActive true --schedStartDate date --verbose </pre>	Update a weekly schedule.

Workflow area	Action/description	Command and associated parameters
<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action schedUpdate --policy Policy --schedName WeeklyBackup --schedFreqId 4 --schedId 1 --schedActionId 1 --schedDayOfWeek day_of_week --schedHour hour --schedMin minute --schedActive true --schedStartDate date --verbose </pre>	<p>Update a cron schedule.</p>	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action schedUpdate --policy Policy --schedName CronBackup --schedFreqId 5 --schedId 1 --schedActionId 1 --schedCron "0 0/5 14,18 * * ?" --schedActive true --schedStartDate date --verbose </pre>
<p>Schedules (contd...)</p>	<p>List all schedules.</p>	<pre> snapcreator --server IP --port Port --user User --passwd Password --action schedList --verbose </pre>
<p>List supported scheduler actions.</p>	<pre> snapcreator --server IP --port Port --user User --passwd Password --action schedActionList --verbose </pre>	<p>List supported scheduler frequencies.</p>

Workflow area	Action/description	Command and associated parameters
<pre> snapcreator --server IP --port Port --user User --passwd Password --action schedFreqList --verbose </pre>	<p>Show additional details for a schedule ID.</p>	<pre> snapcreator --server IP --port Port --user User --passwd Password --action schedDetails --schedId 1 --verbose </pre>
<p>scdump</p>	<p>Create an scdump file. Dumps logs, configuration files, and support information about a particular profile in a .zip file called scdump located under the Snap Creator root directory.</p>	<pre> snapcreator --server IP --port Port --user User --passwd Password -- profile Profile --config Config --action scdump --policy Policy --verbose </pre>
<p>Snap Creator Server and Agent</p>	<p>List the status for all agents known to the Snap Creator Server.</p>	<pre> snapcreator --server IP --port Port --user User --passwd Password --action agentStatus --verbose </pre>
<p>Snap Creator Server and Agent (contd...)</p>	<p>Ping a Snap Creator Server.</p>	<pre> snapcreator --server IP --port Port --user User --passwd Password --action pingServer --verbose </pre>

Workflow area	Action/description	Command and associated parameters
Ping a Snap Creator Agent.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action pingAgent --agentName host_name --agentPort port --verbose </pre>	Archive
Perform archive log management according to the settings in the configuration file. This operation requires Snap Creator Agent.	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action arch --verbose </pre>	Data protection capability
Configure the NetApp Management Console data protection capability dataset for a given configuration.	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action pmsetup --verbose </pre>	Show the data protection status of the SnapVault and SnapMirror relationship for a controller. If SnapVault or SnapMirror is not configured, the results are not displayed.

Workflow area	Action/description	Command and associated parameters
<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action dpstatus --verbose </pre>	<p>Quiesce/unquiesce</p>	<p>Perform the quiesce operation for a given application. This operation requires Snap Creator Agent.</p>
<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action quiesce --verbose </pre>	<p>Perform the unquiesce operation for a given application. This operation requires Snap Creator Agent.</p>	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action unquiesce --verbose </pre>
<p>Discover</p>	<p>Perform discovery for a given application. This operation requires Snap Creator Agent.</p>	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --config Config --action discover --verbose </pre>

Commands used to manage Snap Creator user access

You can perform Snap Creator RBAC actions using CLI commands.

The following table provides the command-line equivalent for Snap Creator GUI-based RBAC actions:

RBAC area	Action	Command and associated parameters
Users	Create a new user.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action userAdd --username user_name --userPwd user_passwd --verbose </pre>
Delete a user.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action userDelete --username user_name --verbose </pre>	List all users.
<pre> snapcreator --server IP --port Port --user User --passwd Password --action userList --verbose </pre>	List all assigned users for a role.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action userListAssigned --roleName role_name --verbose </pre>

RBAC area	Action	Command and associated parameters
List all users who are assigned a profile.	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --action userListForProfile --verbose </pre>	Roles
Create a new role.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action roleAdd --roleName role_name --roleDesc role_description --verbose </pre>	Delete a role.
<pre> snapcreator --server IP --port Port --user User --passwd Password --action roleDelete --roleName role_name --verbose </pre>	Assign a role to a user.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action roleAssign --userName user_name --roleName role_name --verbose </pre>

RBAC area	Action	Command and associated parameters
Unassign a role from a user.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action roleUnassign --userName user_name --roleName role_name --verbose </pre>	List all assigned roles for a user.
<pre> snapcreator --server IP --port Port --user User --passwd Password --action roleListAssigned --userName user_name --verbose </pre>	Permissions	Create a new permission.
<pre> snapcreator --server IP --port Port --user User --passwd Password --action permAdd --permName permission_name --permDesc permission_descriptio n --verbose </pre>	Delete a permission.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action permDelete --permName permission_name --verbose </pre>

RBAC area	Action	Command and associated parameters
Assign a permission to a user.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action permAssign --permName permission_name --roleName role_name --verbose </pre>	Unassign a permission from a user.
<pre> snapcreator --server IP --port Port --user User --passwd Password --action permUnassign --permName --roleName role_name --verbose </pre>	List all permissions.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action permList --verbose </pre>
List all permissions assigned to a role.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action permListAssigned --roleName role_name --verbose </pre>	Operations

RBAC area	Action	Command and associated parameters
Assign an operation to a permission.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action opAssign --opName operation_name --permName permission_name --verbose </pre>	Unassign an operation from a permission.
<pre> snapcreator --server IP --port Port --user User --passwd Password --action opUnassign --opName operation_name --permName permission_name --verbose </pre>	List all operations.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action opList --verbose </pre>
List all operations assigned to a permission.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action opListAssigned --permName permission_name --verbose </pre>	Profiles

RBAC area	Action	Command and associated parameters
Assign a profile to a user.	<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --action profileAssign --userName user_name --verbose </pre>	Unassign a profile from a user.
<pre> snapcreator --server IP --port Port --user User --passwd Password --profile Profile --action profileUnassign --userName user_name --verbose </pre>	List all profiles assigned to a user.	<pre> snapcreator --server IP --port Port --user User --passwd Password --action profileListForUser --userName user_name --verbose </pre>

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