Get token with admin /password/role

url = https://<<SnapCenter-Server-IP>>/api/3.0/auth/login?TokenNeverExpires=true

{

"UserOperationContext": {

"User": {

"Name": "<<Domain>>\\<<Username>>",

"Passphrase": "<<SnapcenterPassword>>",

"Rolename": "SnapCenterAdmin"

}

}

}

{

"Job": {

"Name": null,

"Id": 0,

"StartTime": null,

"EndTime": null,

"IsCancellable": false,

"IsRestartable": false,

"IsCompleted": false,

"IsVisible": true,

"IsScheduled": false,

"PercentageCompleted": 0,

"Description": null,

"Status": 0,

"Owner": null,

"Error": null,

"Priority": 0,

"Tasks": [],

"ParentJobID": 0,

"EventId": 0,

"JobTypeId": null,

"ApisJobKey": null,

"ObjectId": 0,

"PluginCode": 0,

"PluginName": null

},

"**User**": {

"**Token**": "66PEpittWC/Y/46P49Nn2cimpgxj10HMqTc2kRkdjgDOLNawlgS1kHgjLQYXsuUjuybW0t9o7PbkpQH88ri6cDJkksLtf4x6GF9jtHU88rG3T1L1GBK0JM7nia+k1+f8Z7hP71gtFMotBJCawVIXeFwLpaEUdUtJMuyWj50Zmma0BNWgY9hbXQw+VpGt8wjnRXUVYLG7elBhThhLP/HHHw==",

"Name": "administrator",

"TokenHashed": null,

"Type": "",

"TokenTime": "2017-08-08T02:14:14.060481-07:00",

"Id": "1",

"FullName": "LAB\\administrator",

"Host": null,

"Author": null,

"UserName": "",

"Domain": "LAB",

"Passphrase": "",

"Description": "",

"Deleted": false,

"TokenNeverExpires": false,

"Auth": {

"Id": 0,

"RunAsName": null,

"AuthMode": 0,

"UserName": null,

"Passpharse": null,

"OwnerId": null,

"HostName": null,

"InstanceName": null,

"CheckforAdministratorPrivilage": false,

"TargetURL": null,

"IsSudoEnabled": false

},

"IsAdmin": true,

"IsClone": false,

"TenantAdmin": null,

"CloneLevel": 0,

"IsNewUser": null,

"Hosts": null,

"UserGroupObjectType": 1,

"StorageName": null,

"RoleName": null,

"Key": 0,

"RoleId": 0,

"NsmObjectID": 0,

"GroupIds": [],

"GroupNames": null

},

"Result": {

"\_message": "",

"\_errorCode": 0,

"ErrorRecords": []

},

"TotalCount": 0,

"DisplayCount": 0,

"Context": null

}

Use token to get DB key passing DB name

URL:

https://<<SC-Server-IP>>/api/3.0/hosts/<<Linux-HostName>>/plugins/MySQL/resources?ResourceType=Database&ResourceName=<<DB-Name>>

{

"Job": {

"Name": null,

"Id": 799,

"StartTime": null,

"EndTime": null,

"IsCancellable": false,

"IsRestartable": false,

"IsCompleted": false,

"IsVisible": true,

"IsScheduled": false,

"PercentageCompleted": 0,

"Description": null,

"Status": 0,

"Owner": null,

"Error": null,

"Priority": 0,

"Tasks": [],

"ParentJobID": 0,

"EventId": 0,

"JobTypeId": null,

"ApisJobKey": null,

"ObjectId": 0,

"PluginCode": 0,

"PluginName": null

},

"Resources": [

{

"PluginCode": 7,

"OperationResults": [

{

"Target": {

"$type": "SMCoreContracts.SmSCPluginResource, SMCoreContracts",

"PluginName": "MySQL",

"Name": "apprendadb",

"Uid": "apprendadb",

"Type": "Database",

"ParentUid": "",

"Id": "app-linux2.lab.com\\MySQL\\apprendadb",

"SmAppFiles": null,

"Host": "app-linux2.lab.com",

"SmAppFileStorageGroups": [

{

"Files": [],

"Name": "",

"StorageFootPrint": {

"HostResource": null,

"Name": "",

"StorageSystemResources": [

{

"$type": "SMCoreContracts.SDStorageSystemDirectory, SMCoreContracts",

"StorageSystemId": {

"UserName": null,

"Aliases": [],

"Port": null,

"SmIPAddresses": [],

"TransportType": null,

"Name": "10.192.39.71",

"Mode": null,

"OntapiMajorVersion": null,

"OntapiMinorVersion": null,

"Version": null,

"StorageSystemOSType": null,

"Passphrase": null,

"Id": 0,

"Timeout": null,

"Uuid": null,

"OperationContext": null,

"PreferredIpAddress": null,

"Domain": null,

"VServerInterfaceList": [],

"OperationContextIsGroup": false,

"StorageKey": null,

"Site": null,

"GroupName": null,

"PlatformType": null,

"LicenseKeyType": 0

},

"ResourceType": 16,

"Name": "10.192.39.71:/vol/mysql\_vol",

"Volume": {

"ResourceType": 15,

"Name": "mysql\_vol",

"Vserver": "10.192.39.71",

"ResourceName": "10.192.39.71:/vol/mysql\_vol",

"Type": "SDStorageVolume",

"FullPath": "10.192.39.71:/vol/mysql\_vol",

"Ranges": null,

"Id": null,

"JunctionPath": "/mysql\_vol",

"Host": null,

"JunctionParentName": null,

"UserName": "",

"SizeTotal": null,

"Passphrase": "",

"SizeUsed": null,

"Deleted": false,

"SnapMirrorSource": null,

"Auth": {

"Id": 0,

"RunAsName": null,

"AuthMode": 0,

"UserName": null,

"Passpharse": null,

"OwnerId": null,

"HostName": null,

"InstanceName": null,

"CheckforAdministratorPrivilage": false,

"TargetURL": null,

"IsSudoEnabled": false

},

"SnapMirrorDest": null,

"IsClone": false,

"SnapVaultPrimary": null,

"CloneLevel": 0,

"SnapVaultSecondary": null,

"Hosts": null,

"FlexCloneEnabled": null,

"StorageName": null,

"IsFlexClone": null,

"Key": 0,

"VolumeSecurityStyle": null,

"NsmObjectID": 0,

"AggregateName": null,

"AggregateUuid": null,

"FlexCloneLevel": null,

"IsLeaf": null,

"VolumeState": null,

"AggregateAvailableSpace": null,

"ExportPolicy": null,

"VolumeUuid": null,

"OwningVserverName": null,

"VolumeType": null,

"IsProtected": false,

"StorageVmKey": null,

"VolumeKey": null,

"VolumeInstanceUuid": null,

"Size": null,

"IsRootVolume": null,

"IsSelectable": null,

"StorageKey": null,

"ProtectionStatus": null

},

"ResourceName": "10.192.39.71:/mysql\_vol",

"Type": "SDStorageDir",

"LogicalPath": null,

"Ranges": null,

"Id": null,

"PhysicalPath": null,

"Host": null,

"RelativePhysicalPath": null,

"UserName": "",

"JunctionPath": "/mysql\_vol",

"Passphrase": "",

"NestJunctionPath": null,

"Deleted": false,

"NestVolumes": null,

"Auth": {

"Id": 0,

"RunAsName": null,

"AuthMode": 0,

"UserName": null,

"Passpharse": null,

"OwnerId": null,

"HostName": null,

"InstanceName": null,

"CheckforAdministratorPrivilage": false,

"TargetURL": null,

"IsSudoEnabled": false

},

"NestJunctionParentVolume": null,

"IsClone": false,

"LeafVolume": null,

"CloneLevel": 0,

"Files": null,

"Hosts": null,

"StorageName": null,

"Key": 0,

"NsmObjectID": 0

}

],

"Type": "",

"VirtualResources": [],

"Id": null,

"Host": null,

"UserName": "",

"Passphrase": "",

"Deleted": false,

"Auth": {

"Id": 0,

"RunAsName": null,

"AuthMode": 0,

"UserName": null,

"Passpharse": null,

"OwnerId": null,

"HostName": null,

"InstanceName": null,

"CheckforAdministratorPrivilage": false,

"TargetURL": null,

"IsSudoEnabled": false

},

"IsClone": false,

"CloneLevel": 0,

"Hosts": null,

"StorageName": null,

"Key": 0,

"NsmObjectID": 0

},

"Type": "",

"Id": null,

"Host": null,

"UserName": "",

"Passphrase": "",

"Deleted": false,

"Auth": {

"Id": 0,

"RunAsName": null,

"AuthMode": 0,

"UserName": null,

"Passpharse": null,

"OwnerId": null,

"HostName": null,

"InstanceName": null,

"CheckforAdministratorPrivilage": false,

"TargetURL": null,

"IsSudoEnabled": false

},

"IsClone": false,

"CloneLevel": 0,

"Hosts": null,

"StorageName": null,

"Key": 0,

"NsmObjectID": 0

}

],

"UserName": "",

"PluginParams": {

"Data": [

{

"Type": null,

"Value": "10.192.39.29",

"Key": "HOST",

"Values": []

},

{

"Type": null,

"Value": "3306",

"Key": "PORT",

"Values": []

},

{

"Type": null,

"Value": "N",

"Key": "MASTER\_SLAVE",

"Values": []

}

]

},

"Passphrase": "",

"MountPaths": null,

"Deleted": false,

"pluginConfiguration": null,

"Auth": {

"Id": 5,

"RunAsName": "apprenda\_mysql",

"AuthMode": 0,

"UserName": "root",

"Passpharse": "cm9vdPyJOrROz+9Ic4f+KZ6isBKQGhA0I03DssiauxbTAwJx6kYZSBNFZ2tfkOqr8rBwPvanEkj4EoVHOoUkg3RGi5yWLdlBA6xvcoU3YhmXhmQhIrdzD83255kuW9nFB8+fQFYpYL9sDbSFNrPxKHGc/SY=",

"OwnerId": null,

"HostName": null,

"InstanceName": null,

"CheckforAdministratorPrivilage": false,

"TargetURL": null,

"IsSudoEnabled": false

},

"IsClone": false,

"CloneLevel": 0,

"Hosts": null,

"StorageName": null,

**\*** "**Key**": 3,

"NsmObjectID": 0

},

"Result": {

"\_message": "",

"\_errorCode": 0,

"ErrorRecords": []

}

},

],

"Result": {

"\_message": "",

"\_errorCode": 0,

"ErrorRecords": []

},

"ConsistencyGroups": [],

"TotalCount": 0,

"ApplicationConsistencyGroup": null,

"DisplayCount": 0,

"FilesystemStorageFootprints": null,

"Context": null

}

The policy preexists (Oper Custom Prop)

Protect the resources.

URL:

https:**//<<**SnapCenter**-**Server**-**IP**>>/**api**/**3.0**/**plugins**/<<**MySQL**>>/**resources**/<<**Resource**-**Group**-**Key**>>/**protect

Body:

{

"ProtectionGroup":

{

"Configuration":

{

"$type": "SMCoreContracts.SmBackupConfiguration, SMCoreContracts",

"Name": "rg\_internal",

"PluginConfiguration":

{

"$type": "SMCoreContracts.SmSCBackupConfiguration, SMCoreContracts",

"FileSystemConsistentSnapshot": false,

},

"ConfigurationType": "ProtectionGroup"

},

"Policies": [

{

"Name": "<<OnDemand-Policy Name>>",

}

],

"ProtectionGroupType": "Backup"

}

}

Backup call

https:**//<<**SnapCenter**-**Server**-**IP**>>/**api**/**3.0**/**plugins**/<<**MySQL**>>/**resources**/<<**Resource**-**Group**-**Key**>>/**backup

Response

{

"pragma": "no-cache",

"strict-transport-security": "max-age=31536000",

"server": "Microsoft-IIS/8.5",

"x-aspnet-version": "4.0.30319",

"joburi": "https://<<SC-Server-IP>>/api/jobs/730",

"x-powered-by": "ASP.NET",

"x-frame-options": "SAMEORIGIN",

"content-type": "text/plain; charset=utf-8",

"access-control-allow-origin": "none",

"cache-control": "no-cache",

"access-control-allow-credentials": "false",

"content-length": "16",

"date": "Tue, 01 Aug 2017 12:05:55 GMT",

"expires": "-1"

}

Get back-up details

https://<<SC-Server-IP>>/api/3.0/backups?JobId=<<BACKUP-JOB-ID>>

Response:

{

"Job": {

"Name": null,

"Id": 0,

"StartTime": null,

"EndTime": null,

"IsCancellable": false,

"IsRestartable": false,

"IsCompleted": false,

"IsVisible": true,

"IsScheduled": false,

"PercentageCompleted": 0,

"Description": null,

"Status": 0,

"Owner": null,

"Error": null,

"Priority": 0,

"Tasks": [],

"ParentJobID": 0,

"EventId": 0,

"JobTypeId": null,

"ApisJobKey": null,

"ObjectId": 0,

"PluginCode": 0,

"PluginName": null

},

"**Backups**": [

{

"**BackupName**": "app-linux2\_lab\_com\_MySQL\_apprenda\_db\_app-linux2\_08-01-2017\_07.09.11.4866",

"Name": "",

"**BackupId**": "611",

"Type": "",

"BackupType": "SCC\_BACKUP",

"Id": null,

"BackupTime": "2017-08-01T07:07:38.079",

"Host": null,

"BackupComponents": [],

"UserName": "",

"JobId": 748,

"Passphrase": "",

"MetaObject": [

{

"Type": null,

"Value": "1",

"Key": "HasMultipleResources",

"Values": null

}

],

"Deleted": false,

"ProtectionGroupName": null,

"Auth": {

"Id": 0,

"RunAsName": null,

"AuthMode": 0,

"UserName": null,

"Passpharse": null,

"OwnerId": null,

"HostName": null,

"InstanceName": null,

"CheckforAdministratorPrivilage": false,

"TargetURL": null,

"IsSudoEnabled": false

},

"PolicyName": null,

"IsClone": false,

"Startime": "2017-08-01T07:09:42.2401161-07:00",

"CloneLevel": 0,

"Endtime": "2017-08-01T07:09:42.2401161-07:00",

"Hosts": null,

"VerifyResultSummary": 0,

"StorageName": null,

"MountedPath": null,

"Key": 0,

"IsMounted": null,

"NsmObjectID": 0,

"MountedHostName": null,

"CatalogBackupStatus": 0,

"ScheduleType": 0

}

],

"Result": {

"\_message": "",

"\_errorCode": 0,

"ErrorRecords": []

},

"TotalCount": 0,

"DisplayCount": 0,

"Context": null

}

Clone passing name of the backup

https:**//<<**SC**-**Server**-**IP**>>/**api**/**3.0**/**plugins**/<<**MySQL**>>/**resources**/<<**JOB**-**ID**>>/**clone

Body:

{

"CloneConfiguration":

{

"$type": "SMCoreContracts.SmCloneConfiguration, SMCoreContracts",

"Suffix": "\_clone1",

"CloneConfigurationApplication":

{

"$type": "SMCoreContracts.SmSCCloneConfiguration, SMCoreContracts",

"MountCmd":["mount 10.192.39.72:%mysql\_vol\_Clone /var/lib/mysql2"],

"PostCloneCreateCmd": ["/var/lib/start-mysql.sh"]

"Host": "app-linux1.lab.com"

}

},

"Backups": [

{

"PrimaryBackup":

{

"BackupName": "app-linux2\_lab\_com\_MySQL\_apprenda\_db\_app-linux2\_08-01-2017\_07.09.11.4866"

}

}

],

}

Bring up MySql via a script that adds new data dir (run by the clone command)

Here is the documentation for the Snapcenter3.0 APIs - <http://sc-mysql-apis.readthedocs.io/>