

October 2023



# Skyline CLI – Instructions

Version 1.0.17

## Table of contents

Download Skyline CLI for your Platform .....	3
Parameters.....	3
Examples.....	6
Get Skyline collector status	6
Add new Endpoint	6
Update existing Endpoint	6
Deactivate Root Password Policy	6
Set Root Password Policy in days until expire	6
Enable / Disable debug logging of Skyline collector	6
Example JSON file for full setup:	7
Example JSON for Skyline Endpoint monitoring using vROPs	10
Example JSON file for Skyline Endpoint monitoring with Slack notifications	11
Example JSON file for Skyline collector log bundle collection	12
Example JSON file for Skyline collector add endpoint	13
Example JSON file for Skyline collector update endpoint	14
Run skylinecli with config file	15
Full Setup example screenshot	15
Endpoint monitoring example screenshot	15

## Download Skyline CLI for your Platform

### Linux and Mac

```
sudo cp skylinecli /usr/local/bin/
```

```
sudo chmod +x /usr/local/bin/skylinecli
```

### Mac allow execution

```
xattr -dr com.apple.quarantine /usr/local/bin/skylinecli
```

## Parameters

### **--action**

- add - create new endpoint
- update - update existing endpoint
- status - get status of collector incl. endpoints
- rootpasspolicy - set root password policy
- register - register new skyline collector
- collectorupdate - update collector to the latest version
- setproxy - configure the proxy
- setname - Set friendly name of the collector

### **--collector**

- Collector FQDN

### **--username**

- Collector username

### **--password**

- Collector password

### **--rootpassword**

- Collector root password

### **--provider**

- Authentication provider (use local for build-in authentication)

**--ep**

- Endpoint FQDN

**--eptype**

- Type of Endpoint
- vCenter: VSPHERE
- vRealize Operations Manager: VROPS
- NSX-V: NSX\_V
- NSX-T: NSX\_T
- vRealize Suite Lifecycle Manager: LCM
- Horizon View: HORIZON
- VMware Cloud Foundation: VCF
- vRealize Automation: VRA

**--epuser**

- Endpoint username

**--eppassword**

- Endpoint password

**--rootpasspolicy**

- Root password policy

**--days**

- Expire root password after X days

**--token**

- CSP API Skyline Org token

**--verify**

- Enable or disable Hostname verification

**--phost**

- Proxy FQDN

**--pport**

- Proxy port

**--puser**

- Proxy username

**--ppassword**

- Proxy password

**--help**

- -help=true or false | true will provide examples

**--file**

- provide a json file for actions and/or configuration

**--setdebug**

- enable / disable debug logging [true|false]

**--ssh**

- allow root ssh login [true|false]

**--adminexpiry**

- days until the admin password will expire Default: 90 Max: 9999

## Examples

### Get Skyline collector status

```
skylinecli -action status -port 443 -collector COLLECTOR-FQDN -username USERNAME -password  
PASSWORD
```

### Add new Endpoint

```
skylinecli -action add -ep ENDPOINT-FQDN -port 443 -collector COLLECTOR-FQDN -epuser USERNAME  
-eppassword PASSWORD -eptype VROPS -username USERNAME -password PASSWORD
```

### Update existing Endpoint

```
skylinecli -action update -ep ENDPOINT-FQDN -port 443 -collector COLLECTOR-FQDN -epuser USERNAME  
-eppassword PASSWORD -eptype VROPS -username USERNAME -password PASSWORD
```

### Deactivate Root Password Policy

```
skylinecli -action rootpasspolicy -collector COLLECTOR-FQDN -username USERNAME -password  
PASSWORD -rootpasspolicy false
```

### Set Root Password Policy in days until expire

```
skylinecli -action rootpasspolicy -collector COLLECTOR-FQDN -username USERNAME -password  
PASSWORD -rootpasspolicy true -days 187
```

### Enable / Disable debug logging of Skyline collector

```
skylinecli --action=setdebug --collector COLLECTOR-FQDN --username USERNAME --password PASSWORD  
--insecure=true --setdebug=true --rootpassword PASSWORD
```

Example JSON file for full setup:

```
{
  "action": "setup",
  "friendlyname": "Skyline-Collector",
  "collector": "192.168.100.48",
  "username": "admin",
  "password": "PASSWORD",
  "rootpassword": "PASSWORD",
  "provider": "Local",
  "proxy": {
    "proxyhost": "192.168.100.25",
    "proxyport": "3128",
    "proxyuser": "null",
    "proxypassword": "null",
    "verify": "true"
  },
  "rootpasspolicy": false,
  "expirepasswordafter": "187",
  "token": "CSP-TOKEN",
  "autoupdate": true,
  "debug": false,
  "insecure": true,
  "ova": true,
  "deploy": {
    "vc": "vcsa.vsphere.local",
    "vcuser": "administrator@vsphere.local",
    "vcpassword": "PASSWORD",
    "esxi": "192.168.110.95",
    "datacenter": "datacenter",
    "datastore": "datastore01",
    "network": "VM Network",
    "hostname": "skyline-test",
    "IP0": "192.168.100.48",
    "Netmask0": "255.255.255.0",
    "Gateway": "192.168.100.1",
    "DNS": "192.168.100.2,192.168.100.3",
    "adminpass": "PASSWORD",
    "SourceOVA": "/tmp/Skyline-Appliance-3.1.0.0-19303936_OVF10.ova",
    "FQDN": "skyline-test.vsphere.local",
    "SearchPath": "vsphere.local",
    "PowerOn": true
  },
  "endpoints": {
    "vcsa.vsphere.local": {
      "type": "VSPHERE",
      "user": "administrator@vsphere.local",
      "password": "PASSWORD",
      "port": "443"
    }
  }
}
```

```
"ssh": true,
"adminexpire": "9999"
}
```

action	setup
friendlyname	For easy identification, enter a friendly name for your Skyline Collector.
collector	FQDN or IP
username	Collector username, Example: admin
password	Password of the collector user
rootpassword	Password of the collector root user
provider	Authentication provider, for local user like admin the provider is "local"
Proxy section	Proxy FQDN or IP, Proxy Port, Proxy Username, Proxy Password, Hostname verification
rootpasspolicy	Enable root password expiry: true / false
expirepasswordafter	Number of days after the root password will expire
token	CSP Token <a href="https://docs.vmware.com/en/vRealize-Operations/Cloud/com.vmware.vcom.config.doc/GUID-3B8C8821-FB07-412F-A2E4-C5CA34D8A473.html">https://docs.vmware.com/en/vRealize-Operations/Cloud/com.vmware.vcom.config.doc/GUID-3B8C8821-FB07-412F-A2E4-C5CA34D8A473.html</a>
autoupdate	Choose whether to enable the Skyline Collector to automatically upgrade when new versions of the Skyline Collector are available.
debug	Skyline CLI debug output
insecure	Do not check certificate validity true / false
ova	OVA deployment true / false
deploy	"vc": vCenter FQDN or IP "vcuser": vCenter user "vcpass": vCenter user password "esxi": ESXi FQDN or IP "datacenter": Datacenter name in vCenter "datastore": datastore name "network": Port group "hostname": Collector hostname "IPO": Collector IP "Netmask0": Collector netmask "Gateway": Collector gateway "DNS": DNS server comma separated "adminpass": Collector admin password "SourceOVA": Contains full path including OVA name Example: "/Users/mhempel/Downloads/Skyline-Appliance-3.1.0.0-19303936_OVF10.ova" "FQDN": Collector FQDN "SearchPath": Domain "PowerOn": true



endpoints

```
"VCENTER-FQDN": {  
  "type": "VSPHERE",  
  "user": "VCENTER-USER",  
  "password": "VCENTER-PASSWORD",  
  "port": "443"  
},  
"VROPS-FQDN": {  
  "type": "VROPS",  
  "user": "VROPS-USER",  
  "password": "VROPS-PASSWORD",  
  "port": "443"  
}
```

ssh

Allow root ssh access [true|false]

**Attention: If you allow root SSH access please install a SSH key and disable ssh password authentication in `/etc/ssh/sshd_config`.**

adminexpire

Days after the admin password expires Default: 90 Max: 9999

## Example JSON for Skyline Endpoint monitoring using vROPs

```
{
  "action": "monitor_vrops",
  "vmname": "skyline",
  "collector": "COLLECTOR-FQDN",
  "username": "admin",
  "password": "PASSWORD",
  "provider": "Local",
  "debug": false,
  "insecure": true,
  "vrops": "VROPS-FQDN",
  "vropsusername": "admin",
  "vropspassword": "PASSWORD",
  "authSource": "local"
}
```

action	monitor_vrops
vmname	Collector VM name
collector	FQDN or IP
username	Collector username, Example: admin
password	Password of the collector user
provider	Authentication provider, for local user like admin the provider is "local"
debug	Skyline CLI debug output
insecure	Do not check certificate validity true / false
vrops	vROPs FQDN or IP
vropsusername	vROPs username
vropspassword	vROPs password
authsource	vROPs authsource like "local"

### Example JSON file for Skyline Endpoint monitoring with Slack notifications

```
{  
    "action": "monitor_slack",  
    "vmname": "skyline",  
    "collector": " COLLECTOR-FQDN",  
    "username": "admin",  
    "password": "PASSWORD",  
    "provider": "Local",  
    "debug": false,  
    "insecure": true,  
    "webhook": " https://hooks.slack.com/services/XXXXXXXXX/YYYYYYYYYYY/ZZZZZZZZZZZZZZZZZZZZZZ"  
}
```

action	monitor_slack
vmname	Collector VM name
collector	FQDN or IP
username	Collector username, Example: admin
password	Password of the collector user
provider	Authentication provider, for local user like admin the provider is "local"
debug	Skyline CLI debug output
insecure	Do not check certificate validity true / false
webhook	Slack Webhook URL

## Example JSON file for Skyline collector log bundle collection

```
{
  "action": "logbundle",
  "collector": "COLLECTOR-FQDN",
  "username": "admin",
  "password": "PASSWORD",
  "provider": "Local",
  "debug": false,
  "insecure": true,
  "logbundle": {
    "vc": "VCENTER-FQDN",
    "vcuser": "administrator@vsphere.local",
    "vcpass": "PASSWORD",
    "datacenter": "DATACENTER",
    "hostname": "skyline ",
    "FQDN": "COLLECTOR-FQDN"
  },
  "rootpassword": "PASSWORD"
}
```

action	logbundle
collector	FQDN or IP
username	Collector username, Example: admin
password	Password of the collector user
provider	Authentication provider, for local user like admin the provider is "local"
debug	Skyline CLI debug output
insecure	Do not check certificate validity true / false
Logbundle section	
vc	vCenter FQDN
vcuser	vCenter user like <a href="#">administrator@vsphere.local</a>
vcpass	vCenter user password
datacenter	Datacenter in vCenter
hostname	VM name of the Skyline collector
rootpassword	Skyline collector root password

## Example JSON file for Skyline collector add endpoint

```
{
  "action": "add_endpoint",
  "collector": "COLLECTOR-FQDN",
  "username": "admin",
  "password": "VMware123!",
  "provider": "Local",
  "endpoints": {
    "vcsa.vsphere.local": {
      "type": "VSPHERE",
      "user": "administrator@vsphere.local",
      "password": "VMware123!",
      "port": "443"
    }
  },
  "debug": true,
  "insecure": true
}
```

action	add_endpoint
collector	FQDN or IP
username	Collector username, Example: admin
password	Password of the collector user
provider	Authentication provider, for local user like admin the provider is "local"
debug	Skyline CLI debug output
insecure	Do not check certificate validity true / false
Endpoints section	
Endpoint FQDN	Endpoint FQDN or IP
type	Endpoint type VSPHERE, NSX_T, VRLLI, VROPS
user	Endpoint username
password	Endpoint password
port	Endpoint port

## Example JSON file for Skyline collector update endpoint

```
{
  "action": "update_endpoint",
  "collector": "COLLECTOR-FQDN",
  "username": "admin",
  "password": "VMware123!",
  "provider": "Local",
  "endpoints": {
    "vcsa.vsphere.local": {
      "type": "VSPHERE",
      "user": "administrator@vsphere.local",
      "password": "VMware123!",
      "port": "443"
    }
  },
  "debug": true,
  "insecure": true
}
```

action	update_endpoint
collector	FQDN or IP
username	Collector username, Example: admin
password	Password of the collector user
provider	Authentication provider, for local user like admin the provider is "local"
debug	Skyline CLI debug output
insecure	Do not check certificate validity true / false
Endpoints section	
Endpoint FQDN	Endpoint FQDN or IP
type	Endpoint type VSPHERE, NSX_T, VRLI, VROPS
user	Endpoint username
password	Endpoint password
port	Endpoint port

## Run skylinecli with config file

```
skylinecli -file config.json
```

## Full Setup example screenshot

```
mhempel@mhempel-a02 ~/Documents/skycli/build monitor_vrops ± ./skylinecli-darwin-arm64-1.0.2 -file ../json/config_minimal.json
Deploy Skyline Collector OVA
Power On Skyline collector
Skyline Collector deployed and powered on
Register
Set Proxy result: true
Register result: true
Set Friendly Name result: true
Set Root Password Policy result: true
Set Auto Update result: true
Create Endpoint/s
Endpoint created
mhempel@mhempel-a02 ~/Documents/skycli/build monitor_vrops ±
```

## Endpoint monitoring example screenshot

```
mhempel@mhempel-a02 ~/Documents/skycli/build monitor_vrops ± ./skylinecli-darwin-arm64-1.0.2 -file ../json/config_monitor_vrops.json
Monitor Skyline vROPS

Check if Target Service is available: OK

vrops.oz.xmsoft.de VROPS 1653477765695 THUMBPRINT_MISMATCH
vcsa.oz.xmsoft.de VC_EXTRA 1653477765695 UPLOAD_SUCCESSFUL
vcsa.oz.xmsoft.de VC_HOSTS 1653477765695 UPLOAD_SUCCESSFUL
vcsa.oz.xmsoft.de VC_CHANGES 1653477765695 UPLOAD_SUCCESSFUL
```

