

System Maintenance

Licensing, Internal certificate structure, upgrade, rollback, backup and restore, transplant configuration, roll-out installation

AppGateSDP
Access, evolved.

Cyxtera proprietary

Overview

- Licensing
- Rolling out an AppGate Installation
- Upgrading an AppGate System and Roll-back
- Backup and restore of a AppGate system

Licensing

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Licensing (1/2)

- AppGate runs on a appliance
 - Buy a HW appliance from Cyxtera to run on
 - Pay-as-you go from cloud market places, or bring you own license
 - Run on premise virtualized appliance from Cyxtera
- License Model:
 - Named license per unique user.
- Unique users can connect n-times consuming only 1 single license

Licensing (2/2)

- You license for:
 - Users, incl. 24/7 support
 - Sites, incl. 24/7 support
 - HW maintenance, yearly up to 3 yrs.
- Default license on AppGate:
 - 2 Users
 - 1 Site
- Adding a license will replace the current license
- High Availability/multiple gateways no need for a license.

Example: Licensed users

AppGateSDP

Dashboard


Operations

System

Scripts

Users & Devices

Settings




Active Devices

Blacklisted Users

Licensed Users

On-boarded Devices


Audit Logs 

Licensed Users

Total Licensed Users 3

Username	Identity Provider	Assigned ↓
zahir	LDAP_Certificate	6/4/2018, 1:22:29 PM
zahir	local	6/1/2018, 12:22:13 PM
test1	LDAP	4/13/2018, 12:07:12 PM

License management in the UI

 AppGate
SDP

Search

Dashboard


Operations

System

Scripts

Users & Devices

Settings



Global Settings

Client Connections

Client Auto-Update

CA

License

Utilities


Current License

Expiration date:
4/21/2019, 2:14:01 PM

Users:
25 (2 used)

Sites:
5 (1 used)


Type:
Test License



Apply License File...

Please [contact Cyxtera Support](#) to purchase a new license. Use subject line "Request for Production License". Specify request code **169fcf4a06d** and provide information on the number of users and sites, as detailed in your POE (Proof of Entitlement).

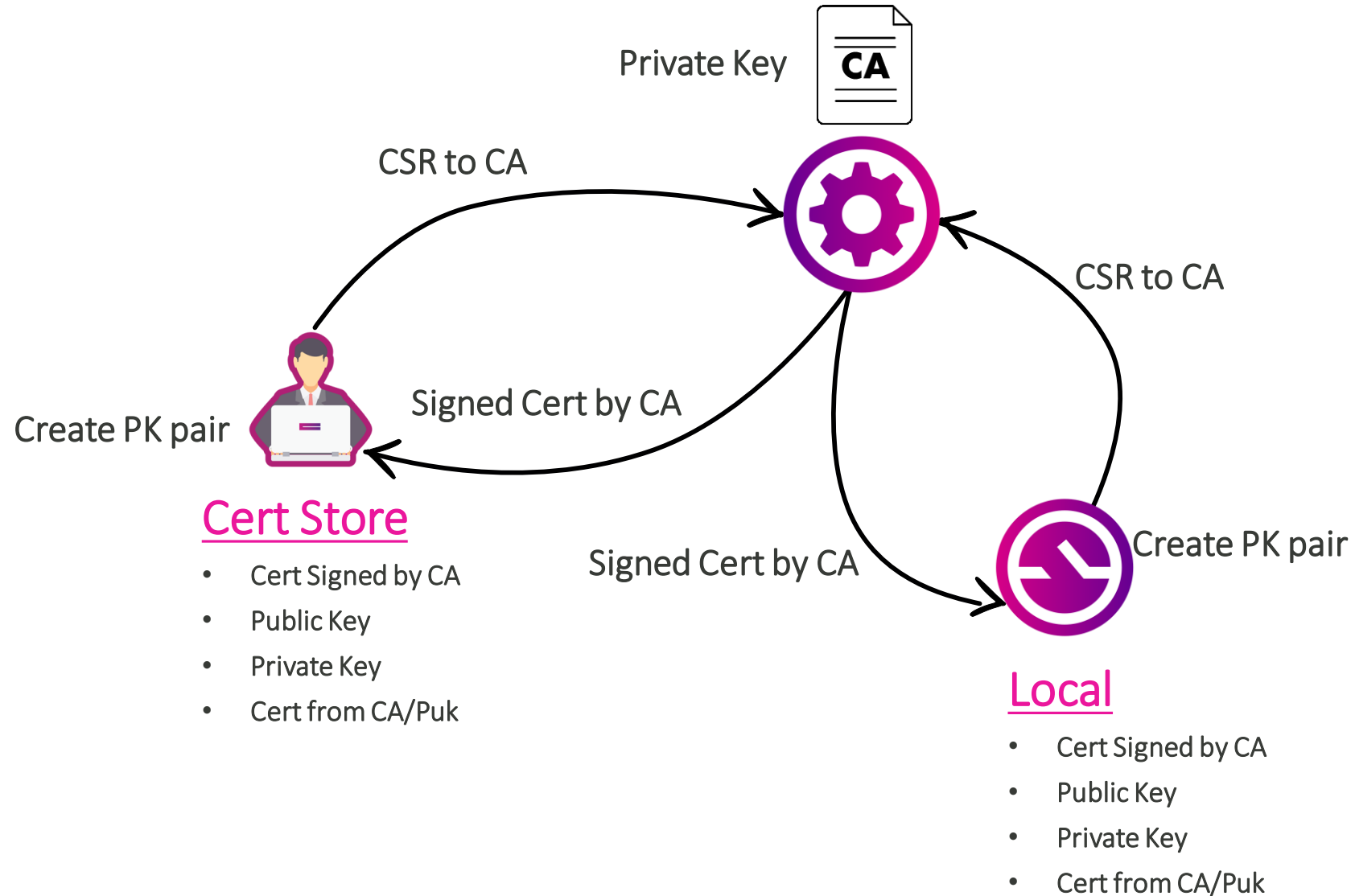
AppGate SDP requires a license for both users and Sites.

 [Learn more about License](#)

Certificate Structure

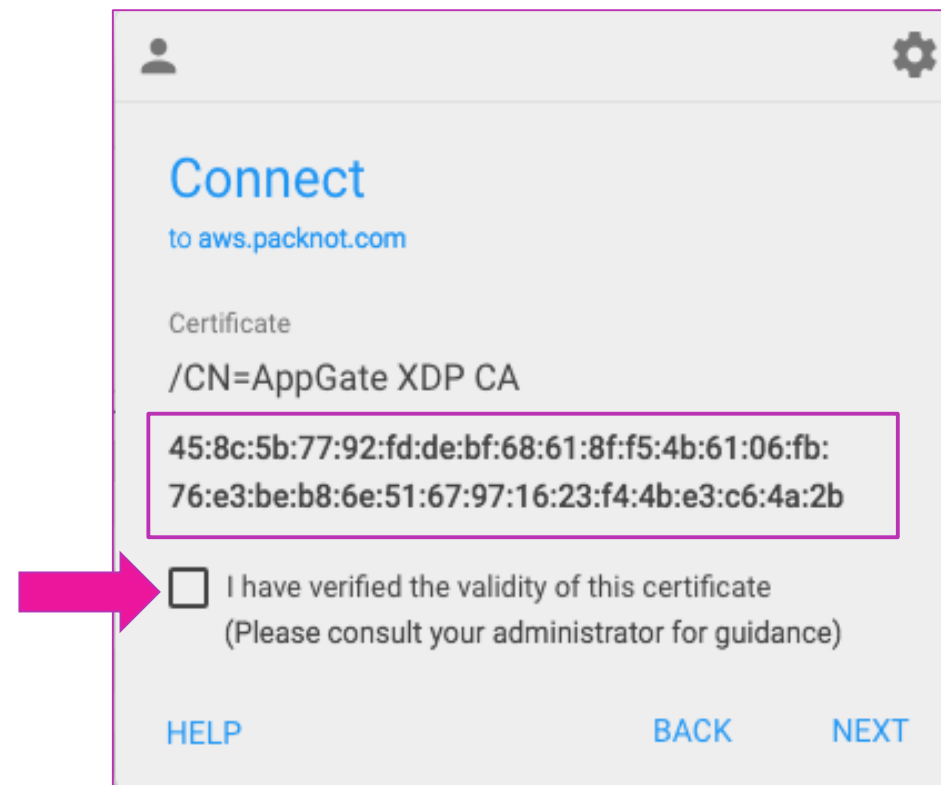
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Certificate Structure



Good to know

- CA certificate can be pushed to cert stores
- Certificate renewal
 - Change of static IPs on interfaces
 - Not if DHCP as in NAT/cloud
 - Change of Hostnames (Controller)
 - Peer interface
 - Client interface
- Certificates are self signed
- Currently not possible to add own cert as the signing authority



Rolling out an AppGate installation

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Rolling out clients first time - preconditions

- There is an installation on place aka "Proof Of Concept"
- You have an adoption group of users you are rolling out first to
 - People with different job functions
 - People which are most reflecting the overall population of users
- Clean install requires Admin privileges

Requirements

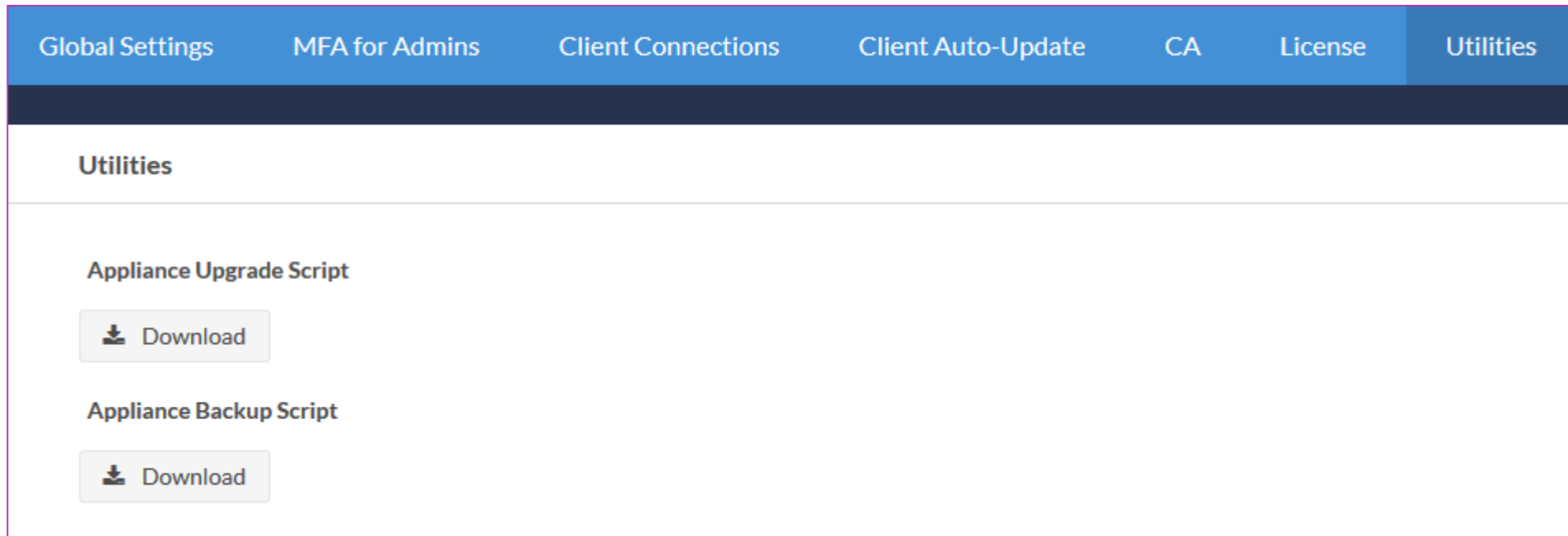
- Port:
 - 443: clients connect to appliances
- SPA:
 - Application aware (layer 4) firewalls must not drop the SPA handshake package
 - Allow TCP on port 443
- List of supported Operating system:
 - Check Cyxtera site
- Check full pre-install check list in the manual

Upgrade the AppGate System

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Upgrading a system

- Run the upgrade script ,otherwise do it manually



Roll back

- Make sure you have always **IRMC (Management console for HW Appliances)** in place or access the **terminal console for VM Appliances**
- Reboot and use the GRUB menu
 - Only two choices: current | previous
- Or do manually, configure partition NR
 - Find the active partition nr:

```
cz@owl-1:~$ cat /mnt/state/volume-number  
1
```
 - `cz-install -n N`, where $N = \{1|2\}$
- Note you booting into another partition:
 - Not the same state
 - Useful when rolling back to an old version after upgrading

Backup & Restore

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Backup & Restore AppGate

- It's meant for the Controller
- **cz-backup**: Backups everything on the controller
 - Zip file

```
cz@sdp:~$ sudo cz-backup 26-sep-2018
[sudo] password for cz:
Starting backup of sdp.appgate.lab...
Dumping database...
Creating backup archive...
tar: Removing leading `/' from member names
Backup of sdp.appgate.lab done, the backup file was saved to /home/cz/26-sep-2018
cz@sdp:~$
```

- You can run the backup script that performs various types of backup from just one Controller to the entire Collective

Backup & Restore AppGate

- **cz-restore:** Restore on a appliance
 - New appliance or existing appliance
 - Appliance version of source and target must be same

```
cz@sdp:~$ sudo cz-restore 26-sep-2018
Starting restore...
Versions match, proceeding with restore from backup...
Wiping appliance...
Waiting for wipe...

Extracting...
tar: mnt/state/config/default-config/local.json: time stamp 2018-08-22 13:06:17 is 1025145.816514722 s in the future
tar: mnt/state/config/default-config/remote.json: time stamp 2018-08-22 13:06:17 is 1025145.815681663 s in the future
```

- Allows you to migrate/transplant a system
- Restore is only supposed to be performed when you have no working Controllers that you can use. If using a multi-Controller group then only use Restore if both Controllers are unavailable.

Backup & Restore AppGate

- If you do have a working Controller then you should always try to deactivate the broken Controller and then re-seed a new appliance as a second Controller.
- The restore will generate a **functional single controller**.
- If you had a multi-Controller group then the admin UI needs to be used to deactivate the other broken Controller and then re-seed a new appliance as a second Controller.
- Restore will permanently destroy all current data

System Maintenance

The end

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