

Update Certificate on RStudio and RStudio2Dev

Retrieved the certificate from Jonathan Lanyon: campus\_wildcard.pfx (and a password)

The path to SSL Certs on RStudio lives in /etc/rstudio/rserver.conf:

```
#Enable Secure-Sockets-Layer (SSL) Sercurity
ssl-protocols=TLSv1.1 TLSv1.2 SSLv2 SSLv3
ssl-enabled=1
ssl-certificate=/etc/ssl/certs/pomona.edu.crt
ssl-certificate-key=/etc/ssl/certs/pomona.edu.key
auth-stay-signed-in=0
```

The RStudio Admin Guide should be consulted in case anything changed since last year:

<http://docs.rstudio.com/ide/server-pro/access-and-security.html#secure-sockets-ssl>

```
[asaj2017@rstudio2 rstudio]$ sudo ls -l /etc/ssl/certs/pomona.edu.crt
[sudo] password for asaj2017:
-rw-r-----. 1 root root 7333 Aug  7 2017 /etc/ssl/certs/pomona.edu.crt
```

Upload pfx file using CyberDuck or sftp cmdline.

```
[asaj2017@rstudio2 Downloads]$ openssl pkcs12 -in campus_wildcard.pfx -out
campus_wildcard.pem -clcerts
```

Password saved in LastPass

Enter Import Password:

MAC verified OK

Enter PEM pass phrase:

Verifying - Enter PEM pass phrase:

Backup /etc/ssl/certs/pomona.edu.crt to /etc/ssl/certs/pomona.edu.crt.bkp

Copy campus\_wildcard.pem

To /etc/ssl/certs/pomona.edu.crt

```
sudo cp /etc/ssl/certs/pomona.edu.key /etc/ssl/certs/pomona.edu.key.bkp
```

```
openssl pkcs12 -in campus_wildcard.pfx -nocerts -out campus_wildcard.key
```

Copy campus\_wildcard.key to /etc/ssl/certs/pomona.edu.key

```
[asaj2017@rstudio2 Downloads]$ sudo rstudio-server license-manager status
```

Status: Activated

Product-Key: Z864-955J-TS9C-43Y3-UKI3-MW8I-QETA

Expiration: 2018-08-10 00:00:00

```
[asaj2017@rstudio2 certs]$ sudo rstudio-server license-manager deactivate
```

Status: Expired

```
[asaj2017@rstudio2 certs]$ sudo rstudio-server license-manager activate
```

Z864-955J-TS9C-43Y3-UKI3-MW8I-QETA

Status: Activated

Product-Key: Z864-955J-TS9C-43Y3-UKI3-MW8I-QETA

Users: 0

Expiration: 2019-08-10 00:00:00

```
[asaj2017@rstudio2 certs]$ sudo shiny-server license-manager deactivate
```

```
[2018-08-06 14:36:06.299] [INFO] shiny-server - Shiny Server (Commercial) v1.5.3.770 (Node.js v6.10.0)
```

```
[2018-08-06 14:36:06.303] [INFO] shiny-server - Using config file
```

```
"/etc/pki/tls/certs/license-manager"
```

```
[2018-08-06 14:36:06.391] [ERROR] shiny-server - Error loading config: File
```

```
"/etc/pki/tls/certs/license-manager" does not exist
```

```
[2018-08-06 14:36:06.411] [INFO] shiny-server - Licensing check succeeded.
```

```
[2018-08-06 14:36:06.411] [INFO] shiny-server -
```

```
MNuc4hxEdtVBr8G1wZRSIUvHFMjDIDeXZOXKv0iBuQ=
```

```
{"connections": "0", "expiration": 1533859200000.000, "status": "activated", "ts": 1533591366405.000, "users": "20"}
```

```
[2018-08-06 14:36:06.413] [INFO] shiny-server - Shutting down worker processes
```

```
[asaj2017@rstudio2 certs]$ sudo shiny-server license-manager activate
NUBV-EUEF-B64V-UXWR-TMSP-ESIK-N6TA
[2018-08-06 14:36:15.148] [INFO] shiny-server - Shiny Server (Commercial) v1.5.3.770 (Node.js
v6.10.0)
[2018-08-06 14:36:15.151] [INFO] shiny-server - Using config file
"/etc/pki/tls/certs/license-manager"
[2018-08-06 14:36:15.193] [ERROR] shiny-server - Error loading config: File
"/etc/pki/tls/certs/license-manager" does not exist
[2018-08-06 14:36:15.211] [INFO] shiny-server - Licensing check succeeded.
[2018-08-06 14:36:15.211] [INFO] shiny-server -
r2jxKR0ENQg1OfO66UsrNU30B7N/vs+qOB8EfgOXxcY=
{"connections":"","expiration":1533859200000.000,"status":"activated","ts":1533591375206.000
,"users":"20"}

[2018-08-06 14:36:15.213] [INFO] shiny-server - Shutting down worker processes
```

```
[asaj2017@rstudio2 certs]$ sudo rstudio-server status
• rstudio-server.service - RStudio Server
  Loaded: loaded (/etc/systemd/system/rstudio-server.service; enabled; vendor preset:
disabled)
  Active: active (running) since Mon 2018-08-06 14:43:15 PDT; 35s ago
  Process: 8468 ExecStop=/usr/bin/killall -TERM rserver (code=exited, status=0/SUCCESS)
  Process: 8470 ExecStart=/usr/lib/rstudio-server/bin/rserver (code=exited, status=0/SUCCESS)
  Main PID: 949
  CGroup: /system.slice/rstudio-server.service
          └─ 8471 /usr/lib/rstudio-server/bin/rserver
          └─ 8523 /usr/lib/rstudio-server/bin/rserver-admin --admin-monitor-data-path
/var/lib/rstudio-server/monitor --admin-monitor-minute-a...
          └─ 8526 /usr/lib/rstudio-server/bin/rserver-monitor --monitor-domain-socket
/tmp/rstudio-rserver/rserver-monitor.socket --monitor-da...
          └─ 8527 /usr/lib/rstudio-server/bin/rserver-http
          └─ 8528 /usr/lib/rstudio-server/bin/rserver-launcher --server-user rstudio-server
--pam-profile su --pam-sessions-close 0 --server-p...
          └─ 8529 /usr/bin/rrdtool -
          └─ 36188 /usr/lib/rstudio-server/bin/rserver
```

```
Aug 06 14:43:15 rstudio2.campus.pomona.edu systemd[1]: Starting RStudio Server...
Aug 06 14:43:15 rstudio2.campus.pomona.edu systemd[1]: Started RStudio Server.
Aug 06 14:43:16 rstudio2.campus.pomona.edu rserver[8471]: ERROR rserver-http: Enter
PEM pass phrase;; LOGGED FROM: void rstudio::server::....pp:209
Hint: Some lines were ellipsized, use -l to show in full.
```

```
[asaj2017@rstudio2 Downloads]$ sudo rstudio-server status
• rstudio-server.service - RStudio Server
   Loaded: loaded (/etc/systemd/system/rstudio-server.service; enabled; vendor preset: disabled)
   Active: active (running) since Mon 2018-08-06 14:45:23 PDT; 1s ago
     Process: 9005 ExecStop=/usr/bin/killall -TERM rserver (code=exited, status=0/SUCCESS)
     Process: 9007 ExecStart=/usr/lib/rstudio-server/bin/rserver (code=exited, status=0/SUCCESS)
    Main PID: 949
    CGroup: /system.slice/rstudio-server.service
            └─ 9010 /usr/lib/rstudio-server/bin/rserver
            └─ 9061 /usr/lib/rstudio-server/bin/rserver-admin --admin-monitor-data-path /var/lib/rstudio-server/monitor --admin-monitor-minute-a...
            └─ 9063 /usr/lib/rstudio-server/bin/rserver-monitor --monitor-domain-socket /tmp/rstudio-rserver/rserver-monitor.socket --monitor-da...
            └─ 9065 /usr/lib/rstudio-server/bin/rserver-launcher --server-user rstudio-server --pam-profile su --pam-sessions-close 0 --server-p...
            └─ 9066 /usr/bin/rrdtool -
            └─ 36188 /usr/lib/rstudio-server/bin/rserver
```

```
Aug 06 14:45:25 rstudio2.campus.pomona.edu rserver[9010]: ERROR rserver-http: nginx: [emerg] SSL_CTX_use_PrivateKey_file("/etc/pki/tls/certs/po...
Aug 06 14:45:25 rstudio2.campus.pomona.edu rserver[9010]: WARNING Process /usr/lib/rstudio-server/bin/rserver-http terminated unexpectedl...pp:232
Aug 06 14:45:25 rstudio2.campus.pomona.edu rserver[9010]: ERROR rserver-http: nginx: [emerg] SSL_CTX_use_PrivateKey_file("/etc/pki/tls/certs/po...
Aug 06 14:45:25 rstudio2.campus.pomona.edu rserver[9010]: WARNING Process /usr/lib/rstudio-server/bin/rserver-http terminated unexpectedl...pp:232
Aug 06 14:45:25 rstudio2.campus.pomona.edu rserver[9010]: ERROR rserver-http: nginx: [emerg] SSL_CTX_use_PrivateKey_file("/etc/pki/tls/certs/po...
Aug 06 14:45:25 rstudio2.campus.pomona.edu rserver[9010]: WARNING Process /usr/lib/rstudio-server/bin/rserver-http terminated unexpectedl...pp:232
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Aug 06 14:45:25 rstudio2.campus.pomona.edu rserver[9010]: ERROR rserver-http: nginx: [emerg] SSL_CTX_use_PrivateKey_file("/etc/pki/tls/certs/po...
Aug 06 14:45:25 rstudio2.campus.pomona.edu rserver[9010]: WARNING Process /usr/lib/rstudio-server/bin/rserver-http terminated unexpectedl...pp:232
Hint: Some lines were ellipsized, use -l to show in full.
```

```
[asaj2017@rstudio2 Downloads]$ openssl rsa -in campus_wildcard.pem -out
campus_wildcard_nokey.pem
Enter pass phrase for campus_wildcard.pem:
writing RSA key
```

Moved RSA section from crt to key file

```
[asaj2017@rstudio2 certs]$ sudo cat /etc/shiny-server/shiny-server.conf
preserve_logs true;
# Specify the authentication method to be used.
# Initially, a flat-file database stored at the path below.
auth_passwd_file /etc/shiny-server/passwd;

# Define where we should put the log files for this location
log_dir /var/log/shiny-server;

# Tell Shiny Server that we want to run as the user whose
# home directory we find the application in.
#### run_as :HOME_USER: shiny;
run_as :HOME_USER;;

# Define a server that listens of port 3838.
access_log /var/log/shiny-server/access.log tiny;
server {
    listen 3838;

    # Define a location at the base URL
    location / {
        ##### PRO ONLY #####
        # Only up to 20 connections per Shiny process and at most 3 Shiny processes
        # per application. Proactively spawn a new process when our processes reach
        # 90% capacity.
        utilization_scheduler 20 .9 3;
        ##### END PRO ONLY #####

        # Run this location in 'site_dir' mode, which hosts the entire directory
        # tree at '/srv/shiny-server'
        user_dirs;
        ### site_dir /srv/shiny-server;
```

```
# Should we list the contents of a (non-Shiny-App) directory when the user
# visits the corresponding URL?
### directory_index on;
}
```

```
### location /users {
###   user_dirs;
### }
```

```
location /home/CAMPUS {
    user_dirs;
}
```

```
location /apps {
    run_as shiny;
    site_dir /srv/shiny-server/apps;
    log_dir /var/log/shiny-server;
    directory_index on;
}
}
```

```
# Provide the admin interface on port 4151
admin 4151 {
```

```
    # Restrict the admin interface to the usernames listed here. Currently
    # just one user named "admin"
    required_user admin;
}
```

```
[root@rstudio2dev ~]# shiny-server status
```

```
[2018-08-06 15:18:37.185] [INFO] shiny-server - Shiny Server (Commercial) v1.5.3.770 (Node.js v6.10.0)
```

```
[2018-08-06 15:18:37.189] [INFO] shiny-server - Using config file "/root/status"
```

```
[2018-08-06 15:18:37.236] [ERROR] shiny-server - Error loading config: File "/root/status" does not exist
```

```
[2018-08-06 15:18:37.248] [INFO] shiny-server - Licensing check succeeded.
```

```
[2018-08-06 15:18:37.248] [INFO] shiny-server -
```

```
6igB1HCohCwfZK9bZiagxODgxEUhNPuwwAftyjDWkSg=
```

```
{"connections": "0", "expiration": 1536364800000.000, "status": "activated", "ts": 1533593917242.000, "users": "20"}
```

[2018-08-06 15:18:37.249] [INFO] shiny-server - Shutting down worker processes

[root@rstudio2dev ~]# rstudio-server status

• rstudio-server.service - RStudio Server

Loaded: loaded (/etc/systemd/system/rstudio-server.service; enabled; vendor preset: disabled)

Active: **active (running)** since Thu 2018-08-02 17:38:48 PDT; 3 days ago

Process: 862 ExecStart=/usr/lib/rstudio-server/bin/rsrver (code=exited, status=0/SUCCESS)

Main PID: 902 (rsrver)

CGroup: /system.slice/rstudio-server.service

└─ 902 /usr/lib/rstudio-server/bin/rsrver

└─ 1906 /usr/lib/rstudio-server/bin/rsrver-admin --admin-monitor-data-path

/var/lib/rstudio-server/monitor --admin-monitor-minute-archive-days 30 --admin-rrd-rrdtool-binary

/usr/bin/rrdtool --admin-www-path /usr/lib/rstudio-server/www-admin --admin-upstrea...

└─ 1907 /usr/lib/rstudio-server/bin/rsrver-monitor --monitor-domain-socket

/tmp/rstudio-rsrrver/rsrver-monitor.socket --monitor-data-path /var/lib/rstudio-server/monitor

--monitor-rstudio-session-metrics 1 --monitor-stderr-enabled 0 --monitor-rrd-enabled ...

└─ 1908 nginx: master process /usr/lib/rstudio-server/bin/rsrver-http

└─ 1909 /usr/lib/rstudio-server/bin/rsrver-launcher --server-user rstudio-server

--pam-profile su --pam-sessions-close 0 --server-project-sharing 1 --server-shared-storage-path

/var/lib/rstudio-server/shared-storage

└─ 1916 /usr/bin/rrdtool -

└─ 1918 nginx: worker process

Aug 06 15:11:59 rstudio2dev.campus.pomona.edu rsrver[902]: **ERROR system error 74 (Bad message) [description=error:04065072:rsa**

**routines:RSA\_EAY\_PRIVATE\_DECRYPT:padding check failed]; OCCURRED AT:**

**rstudio::core::Error rstudio::core::system::crypto::rsaPrivateDecrypt(...**

Aug 06 15:11:59 rstudio2dev.campus.pomona.edu rsrver[902]: **ERROR system error 74 (Bad message) [description=error:04065072:rsa**

**routines:RSA\_EAY\_PRIVATE\_DECRYPT:padding check failed]; OCCURRED AT:**

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**routines:RSA\_EAY\_PRIVATE\_DECRYPT:padding check failed]; OCCURRED AT:  
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Aug 06 15:11:59 rstudio2dev.campus.pomona.edu rserver[902]: ERROR system error 74 (Bad  
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routines:RSA\_EAY\_PRIVATE\_DECRYPT:padding check failed]; OCCURRED AT:  
rstudio::core::Error rstudio::core::system::crypto::rsaPrivateDecrypt(...  
Aug 06 15:11:59 rstudio2dev.campus.pomona.edu rserver[902]: ERROR system error 74 (Bad  
message) [description=error:04065072:rsa  
routines:RSA\_EAY\_PRIVATE\_DECRYPT:padding check failed]; OCCURRED AT:  
rstudio::core::Error rstudio::core::system::crypto::rsaPrivateDecrypt(...  
Hint: Some lines were ellipsized, use -l to show in full.**

`sudo /opt/shiny-server/bin/license-manager status-offline`

Emailed [support@rstudio.com](mailto:support@rstudio.com) and [sales@rstudio.com](mailto:sales@rstudio.com)

`[asaj2017@rstudio2 certs]$ sudo /opt/shiny-server/bin/license-manager status-offline`

Status: Activated  
Product-Key: NUBV-EUEF-B64V-UXWR-TMSP-ESIK-N6TA  
Connections: 0  
Users: 20  
Expiration: 2019-08-10 00:00:00

`[asaj2017@rstudio2 certs]$ sudo ls -l /etc/krb5.keytab  
[sudo] password for asaj2017:  
-rw-----. 1 root root 5271 Jul 22 17:55 /etc/krb5.keytab`

`[asaj2017@rstudio2 certs]$ sudo adcli join -v -U asaj2017-admin`



- \* Calculated domain name from host fqdn: campus.pomona.edu
- \* Calculated computer account name from fqdn: RSTUDIO2
- \* Calculated domain realm from name: CAMPUS.POMONA.EDU
- \* Discovering domain controllers: \_ldap.\_tcp.campus.pomona.edu
- \* Sending netlogon pings to domain controller: cldap://134.173.71.192
- \* Sending netlogon pings to domain controller: cldap://134.173.71.191
- \* Sending netlogon pings to domain controller: ldap://[2002:86ad:47bf::86ad:47bf]
- \* Sending netlogon pings to domain controller: cldap://134.173.71.193
- ! Couldn't perform discovery search: Can't contact LDAP server
- \* Received NetLogon info from: POM-ITB-DC1.campus.pomona.edu
- \* Wrote out krb5.conf snippet to  
/tmp/adcli-krb5-REMI6c/krb5.d/adcli-krb5-conf-stMPfa
- Password for asaj2017-admin@CAMPUS.POMONA.EDU:
  - \* Authenticated as user: asaj2017-admin@CAMPUS.POMONA.EDU
  - \* Looked up short domain name: CAMPUS
  - \* Using fully qualified name: rstudio2.campus.pomona.edu
  - \* Using domain name: campus.pomona.edu
  - \* Using computer account name: RSTUDIO2
  - \* Using domain realm: campus.pomona.edu
  - \* Calculated computer account name from fqdn: RSTUDIO2
  - \* Generated 120 character computer password
  - \* Using keytab: FILE:/etc/krb5.keytab
  - \* Found computer account for RSTUDIO2\$ at:  
CN=rstudio2,CN=Computers,DC=campus,DC=pomona,DC=edu
  - \* Set computer password
  - \* Retrieved kvno '18' for computer account in directory:  
CN=rstudio2,CN=Computers,DC=campus,DC=pomona,DC=edu
  - \* Modifying computer account: userAccountControl
  - \* Modifying computer account: operatingSystemVersion, operatingSystemServicePack
  - \* Modifying computer account: userPrincipalName
  - \* Cleared old entries from keytab: FILE:/etc/krb5.keytab
  - \* Discovered which keytab salt to use
  - \* Added the entries to the keytab: RSTUDIO2\$@CAMPUS.POMONA.EDU:  
FILE:/etc/krb5.keytab
  - \* Cleared old entries from keytab: FILE:/etc/krb5.keytab
  - \* Added the entries to the keytab: host/RSTUDIO2@CAMPUS.POMONA.EDU:  
FILE:/etc/krb5.keytab
  - \* Cleared old entries from keytab: FILE:/etc/krb5.keytab
  - \* Added the entries to the keytab:  
host/rstudio2.campus.pomona.edu@CAMPUS.POMONA.EDU: FILE:/etc/krb5.keytab
  - \* Cleared old entries from keytab: FILE:/etc/krb5.keytab
  - \* Added the entries to the keytab:  
RestrictedKrbHost/RSTUDIO2@CAMPUS.POMONA.EDU: FILE:/etc/krb5.keytab
  - \* Cleared old entries from keytab: FILE:/etc/krb5.keytab

\* Added the entries to the keytab:  
RestrictedKrbHost/rstudio2.campus.pomona.edu@CAMPUS.POMONA.EDU:  
FILE:/etc/krb5.keytab

Updating the cert on rstudio2dev

Auth still failing

Logged in as root

```
[root@rstudio2dev ~]# rstudio-server status
```

- rstudio-server.service - RStudio Server

Loaded: loaded (/etc/systemd/system/rstudio-server.service; enabled; vendor preset: disabled)

Active: **active (running)** since Mon 2018-08-06 15:27:34 PDT; 3 weeks 1 days ago

Process: 105635 ExecStop=/usr/bin/killall -TERM rserver (code=exited, status=0/SUCCESS)

Process: 105637 ExecStart=/usr/lib/rstudio-server/bin/rserver (code=exited, status=0/SUCCESS)

Main PID: 104643

CGroup: /system.slice/rstudio-server.service

└─105638 /usr/lib/rstudio-server/bin/rserver

└─105688 /usr/lib/rstudio-server/bin/rserver-admin

--admin-monitor-data-path /var/lib/rstudio-server/monitor --admin-monitor-mi...

└─105689 /usr/lib/rstudio-server/bin/rserver-monitor

--monitor-domain-socket /tmp/rstudio-rserver/rserver-monitor.socket --moni...

└─105690 nginx: master process /usr/lib/rstudio-server/bin/rserver-http

└─105692 /usr/bin/rrdtool -

└─105693 nginx: worker process

Aug 27 11:15:12 rstudio2dev.campus.pomona.edu rserver[105638]: **ERROR system error 74 (Bad message) [description=error:04065072:rsa routine...**

Aug 27 11:15:12 rstudio2dev.campus.pomona.edu rserver[105638]: **ERROR system error 74 (Bad message) [description=error:04065072:rsa routine...**

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Hint: Some lines were ellipsized, use -l to show in full.

```
[root@rstudio2dev ~]# shiny-server status
[2018-08-29 09:26:41.814] [INFO] shiny-server - Shiny Server (Commercial)
v1.5.3.770 (Node.js v6.10.0)
[2018-08-29 09:26:41.817] [INFO] shiny-server - Using config file "/root/status"
[2018-08-29 09:26:41.863] [ERROR] shiny-server - Error loading config: File
"/root/status" does not exist
[2018-08-29 09:26:41.878] [INFO] shiny-server - Licensing check succeeded.
[2018-08-29 09:26:41.878] [INFO] shiny-server -
7C0Ge9wLgv5o0+NvmOx85Msi4xMk+4vXTvOSwFHVkK=
{"connections":"0","expiration":1536364800000.000,"status":"activated","ts":1535560
001873.000,"users":"20"}

[2018-08-29 09:26:41.880] [INFO] shiny-server - Shutting down worker processes
```

```
[root@rstudio2dev ~]# ls -l /etc/rstudio/rserver.conf
-rw-r--r--. 1 root root 986 Feb 15 2018 /etc/rstudio/rserver.conf
```

```
[root@rstudio2dev ~]# cat /etc/rstudio/rserver.conf
# Server Configuration File
www-port=443
www-address=10.16.8.219
ssl-redirect-http=1
```

```
#PAM options for login
auth-pam-sessions-use-password=1
auth-minimum-user-id=100
```

```
#Enable user 'nice' processing so that no one user
#can hog system resources
#rsession-exec-command=nice -n 10
```

```
#Enable auto-logout of sessions idle for more than 2 hours (120 minutes)
#session-timeout-minutes=120
```

```
#Enable Administrative Dashboard for rstudio-admins group
admin-enabled=1
admin-group=rstudio-admins
```

```
#Enable Administrator Superusers
admin-superuser-group=rstudio-superuser-admins
```

```
#Proxy Authentication to Pomona College's CAS
# single sign-on service
#auth-proxy=1
#auth-proxy-sign-in-url=https://cas-dev.campus.pomona.edu/cas/login?service=http:/
/rstudio.campus.pomona.edu:8787/
```

```
#Enable Secure-Sockets-Layer (SSL) Sercurity
ssl-protocols=TLSv1.1 TLSv1.2 SSLv2 SSLv3
ssl-enabled=1
ssl-certificate=/etc/ssl/certs/pomona.edu.crt
ssl-certificate-key=/etc/ssl/certs/pomona.edu.key
auth-stay-signed-in=0
```

```
[root@rstudio2dev ~]# ls -l /etc/ssl/certs/pomona.edu.crt
-rw-r-----. 1 root root 2403 Aug  6 15:22 /etc/ssl/certs/pomona.edu.crt
```

```
[root@rstudio2dev ~]# ls -l /etc/ssl/certs/pomona.edu.key
-rw-r-----. 1 root root 1679 Aug  6 15:27 /etc/ssl/certs/pomona.edu.key
```

```
[root@rstudio2dev Downloads]# ls -l
total 12
-rw-r-----. 1 root root 176 Aug  6 15:25 campus_wildcard.key
-rw-r-----. 1 root root 4760 Aug  6 15:20 campus_wildcard.pem
```

```
[root@rstudio2dev Downloads]# ls -l /etc/ssl/certs*
lrwxrwxrwx. 1 root root 16 Nov 27 2017 /etc/ssl/certs -> ../pki/tls/certs
```

```
[root@rstudio2dev Downloads]# ls -l /etc/pki/tls/certs
total 32
lrwxrwxrwx. 1 root root 49 Nov 27 2017 ca-bundle.crt ->
/etc/pki/ca-trust/extracted/pem/tls-ca-bundle.pem
lrwxrwxrwx. 1 root root 55 Nov 27 2017 ca-bundle.trust.crt ->
/etc/pki/ca-trust/extracted/openssl/ca-bundle.trust.crt
```

```
-rwxr-xr-x. 1 root root 610 Aug 3 2017 make-dummy-cert
-rw-r--r--. 1 root root 2516 Aug 3 2017 Makefile
-rw-r-----. 1 root root 2403 Aug 6 15:22 pomona.edu.crt
-rw-r-----. 1 root root 7333 Aug 6 15:21 pomona.edu.crt.bkp
-rw-r-----. 1 root root 1679 Aug 6 15:27 pomona.edu.key
-rw-r-----. 1 root root 1958 Aug 6 15:21 pomona.edu.key.bkp
-rwxr-xr-x. 1 root root 829 Aug 3 2017 renew-dummy-cert
```

```
[root@rstudio2dev Downloads]# rstudio-server license-manager status
```

```
Status: Activated
Product-Key: 97FQ-3HTB-SMKV-8G9Z-AQKT-G2BF-N2TA
Expiration: 2018-09-08 00:00:00
```

```
[root@rstudio2dev Downloads]# rstudio-server license-manager deactivate
```

```
Status: Expired
```

```
[root@rstudio2dev Downloads]# rstudio-server license-manager activate
97FQ-3HTB-SMKV-8G9Z-AQKT-G2BF-N2TA
```

```
Status: Activated
Product-Key: 97FQ-3HTB-SMKV-8G9Z-AQKT-G2BF-N2TA
Users: 0
Expiration: 2019-09-08 00:00:00
```

```
[root@rstudio2dev Downloads]# shiny-server license-manager status
[2018-08-29 09:40:24.331] [INFO] shiny-server - Shiny Server (Commercial)
v1.5.3.770 (Node.js v6.10.0)
[2018-08-29 09:40:24.335] [INFO] shiny-server - Using config file
"/root/Downloads/license-manager"
[2018-08-29 09:40:24.377] [ERROR] shiny-server - Error loading config: File
"/root/Downloads/license-manager" does not exist
[2018-08-29 09:40:24.394] [INFO] shiny-server - Licensing check succeeded.
[2018-08-29 09:40:24.394] [INFO] shiny-server -
TGfbaYptfHnTyWy2QBHZ9Og+T3LZ6DaCt7vsIKUathU=
{"connections":"0","expiration":1536364800000.000,"status":"activated","ts":1535560
824389.000,"users":"20"}
```

```
[2018-08-29 09:40:24.396] [INFO] shiny-server - Shutting down worker processes
```

```
[root@rstudio2dev Downloads]# shiny-server license-manager deactivate
[2018-08-29 09:40:35.721] [INFO] shiny-server - Shiny Server (Commercial)
v1.5.3.770 (Node.js v6.10.0)
[2018-08-29 09:40:35.724] [INFO] shiny-server - Using config file
"/root/Downloads/license-manager"
[2018-08-29 09:40:35.772] [ERROR] shiny-server - Error loading config: File
"/root/Downloads/license-manager" does not exist
[2018-08-29 09:40:35.780] [INFO] shiny-server - Licensing check succeeded.
[2018-08-29 09:40:35.780] [INFO] shiny-server -
MQ2uPTgltKOXvxrfVh+8T8KfFWFr4B4YhWcaCe+qPE=
{"connections":"0","expiration":1536364800000.000,"status":"activated","ts":1535560
835775.000,"users":"20"}
```

```
[2018-08-29 09:40:35.782] [INFO] shiny-server - Shutting down worker processes
```

```
[root@rstudio2dev Downloads]# shiny-server license-manager activate
KACJ-RPBJ-VSJ9-EZ87-PT7A-662W-FSTA
[2018-08-29 09:41:32.879] [INFO] shiny-server - Shiny Server (Commercial)
v1.5.3.770 (Node.js v6.10.0)
[2018-08-29 09:41:32.883] [INFO] shiny-server - Using config file
"/root/Downloads/license-manager"
[2018-08-29 09:41:32.923] [ERROR] shiny-server - Error loading config: File
"/root/Downloads/license-manager" does not exist
[2018-08-29 09:41:32.939] [INFO] shiny-server - Licensing check succeeded.
[2018-08-29 09:41:32.939] [INFO] shiny-server -
hGgyNur4DvxTBzstG/dD7yX9K58oGAW3ArZI+eSRJ3I=
{"connections":"0","expiration":1536364800000.000,"status":"activated","ts":1535560
892934.000,"users":"20"}
```

```
[2018-08-29 09:41:32.941] [INFO] shiny-server - Shutting down worker processes
```

```
[root@rstudio2dev Downloads]# shiny-server license-manager status
[2018-08-29 09:42:06.675] [INFO] shiny-server - Shiny Server (Commercial)
v1.5.3.770 (Node.js v6.10.0)
[2018-08-29 09:42:06.679] [INFO] shiny-server - Using config file
"/root/Downloads/license-manager"
[2018-08-29 09:42:06.726] [ERROR] shiny-server - Error loading config: File
"/root/Downloads/license-manager" does not exist
[2018-08-29 09:42:06.736] [INFO] shiny-server - Licensing check succeeded.
[2018-08-29 09:42:06.737] [INFO] shiny-server -
qFCUyS3pAyoIMCRZtAJyRDAr4Idy+nDpSBA1tyQnIFw=
```

```
{"connections":"0","expiration":1536364800000.000,"status":"activated","ts":1535560926731.000,"users":"20"}
```

```
[2018-08-29 09:42:06.738] [INFO] shiny-server - Shutting down worker processes
```

```
[root@rstudio2dev Downloads]# adcli join -v -U asaj2017-admin
* Calculated domain name from host fqdn: campus.pomona.edu
* Calculated computer account name from fqdn: RSTUDIO2DEV
* Calculated domain realm from name: CAMPUS.POMONA.EDU
* Discovering domain controllers: _ldap._tcp.campus.pomona.edu
* Sending netlogon pings to domain controller: cldap://134.173.71.193
* Sending netlogon pings to domain controller: cldap://134.173.71.191
* Sending netlogon pings to domain controller: ldap://[2002:86ad:47bf::86ad:47bf]
* Sending netlogon pings to domain controller: cldap://134.173.71.192
! Couldn't perform discovery search: Can't contact LDAP server
* Received NetLogon info from: POM-GIB-DC1.campus.pomona.edu
* Wrote out krb5.conf snippet to
/var/rtmp/adcli-krb5-LnxEXQ/krb5.d/adcli-krb5-conf-mPYRxa
Password for asaj2017-admin@CAMPUS.POMONA.EDU:
* Authenticated as user: asaj2017-admin@CAMPUS.POMONA.EDU
* Looked up short domain name: CAMPUS
* Using fully qualified name: rstudio2dev.campus.pomona.edu
* Using domain name: campus.pomona.edu
* Using computer account name: RSTUDIO2DEV
* Using domain realm: campus.pomona.edu
* Calculated computer account name from fqdn: RSTUDIO2DEV
* Generated 120 character computer password
* Using keytab: FILE:/etc/krb5.keytab
* Found computer account for RSTUDIO2DEV$ at:
CN=RSTUDIO2DEV,CN=Computers,DC=campus,DC=pomona,DC=edu
* Set computer password
* Retrieved kvno '3' for computer account in directory:
CN=RSTUDIO2DEV,CN=Computers,DC=campus,DC=pomona,DC=edu
* Modifying computer account: userAccountControl
* Modifying computer account: operatingSystemVersion, operatingSystemServicePack
* Modifying computer account: userPrincipalName
* Discovered which keytab salt to use
* Added the entries to the keytab: RSTUDIO2DEV$@CAMPUS.POMONA.EDU:
FILE:/etc/krb5.keytab
* Added the entries to the keytab: host/RSTUDIO2DEV@CAMPUS.POMONA.EDU:
FILE:/etc/krb5.keytab
* Added the entries to the keytab:
host/rstudio2dev.campus.pomona.edu@CAMPUS.POMONA.EDU: FILE:/etc/krb5.keytab
```

\* Added the entries to the keytab:

RestrictedKrbHost/RSTUDIO2DEV@CAMPUS.POMONA.EDU: FILE:/etc/krb5.keytab

\* Added the entries to the keytab:

RestrictedKrbHost/rstudio2dev.campus.pomona.edu@CAMPUS.POMONA.EDU:

FILE:/etc/krb5.keytab