VCF

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VCF 9 offline depot on Synology NAS

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VMware User Group

Who am I

- More than 20 years of experience working in IT
- Currently in the role of VCF TAM at VMware by Broadcom
- Tech enthusiast
- Privacy advocate

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In this session

VCF 9 offline depot running on Synology NAS

VMware Cloud Foundation™

Why an offline depot?

- A disconnected environment

- Limited bandwidth

- A lab environment

- Part of DTA

- Stability of depot during VCF deployment

- High secure or classified infrastructure (DARK SITE)

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Why on Synology NAS?

- Synology already might be running in your LAB

- Ease of use

- We all love a nice GUI

- Inexpensive storage options

Requirements

- Internet connection
- Synology NAS
- Broadcom download token
- VCF Download Tool
- Staging server (Linux)
- Terminal
- WinSCP
- Coffee

Download VCF Download Tool

Copy VCF Download Tool to staging
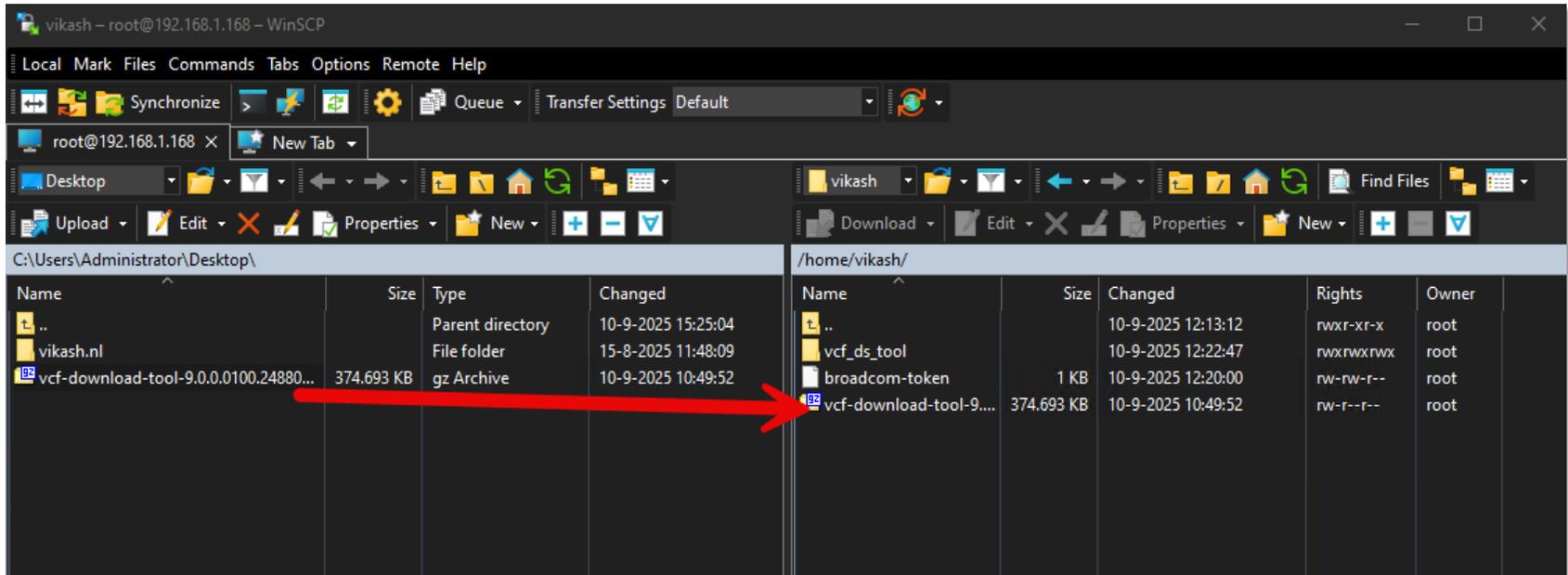
Extract VCF Download Tool
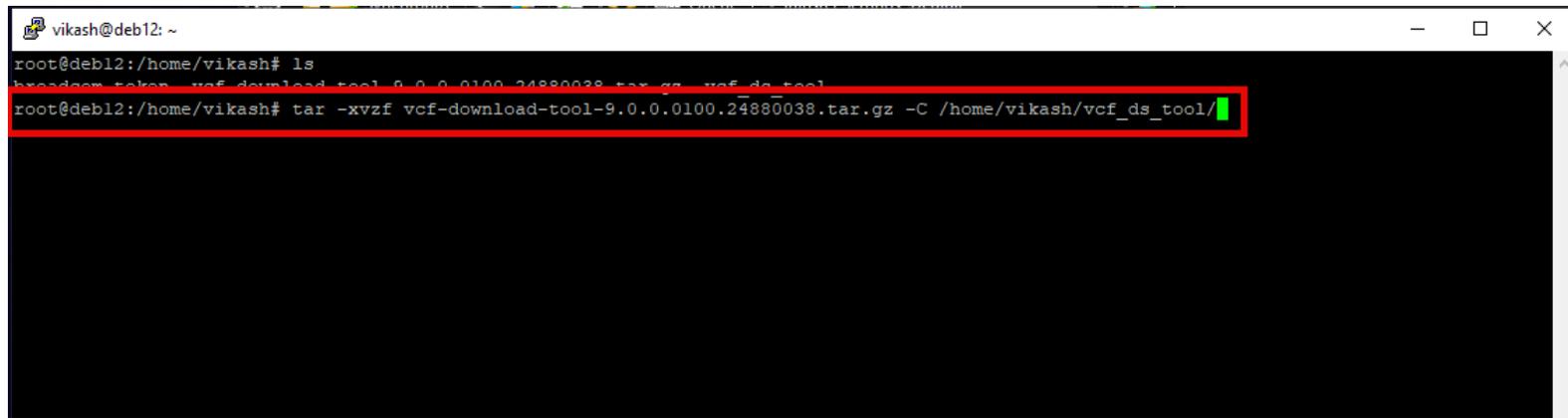

```
tar -xvzf vcf-download-tool-9.0.0.0100.24880038.tar.gz -C /home/vikash/vcf_ds_tool/
```

Download depot files on staging server


```
./vcf-download-tool binaries download --vcf-version 9.0.0 --type=INSTALL --depot-store
/depot --depot-download-token-file /home/vikash/broadcom-token
```

Wait for depot downloads to finish

Locate downloaded files in /depot

Enable webserver package on Synology

Change HTTP back-end server to Apache

Connect to staging server using File Station
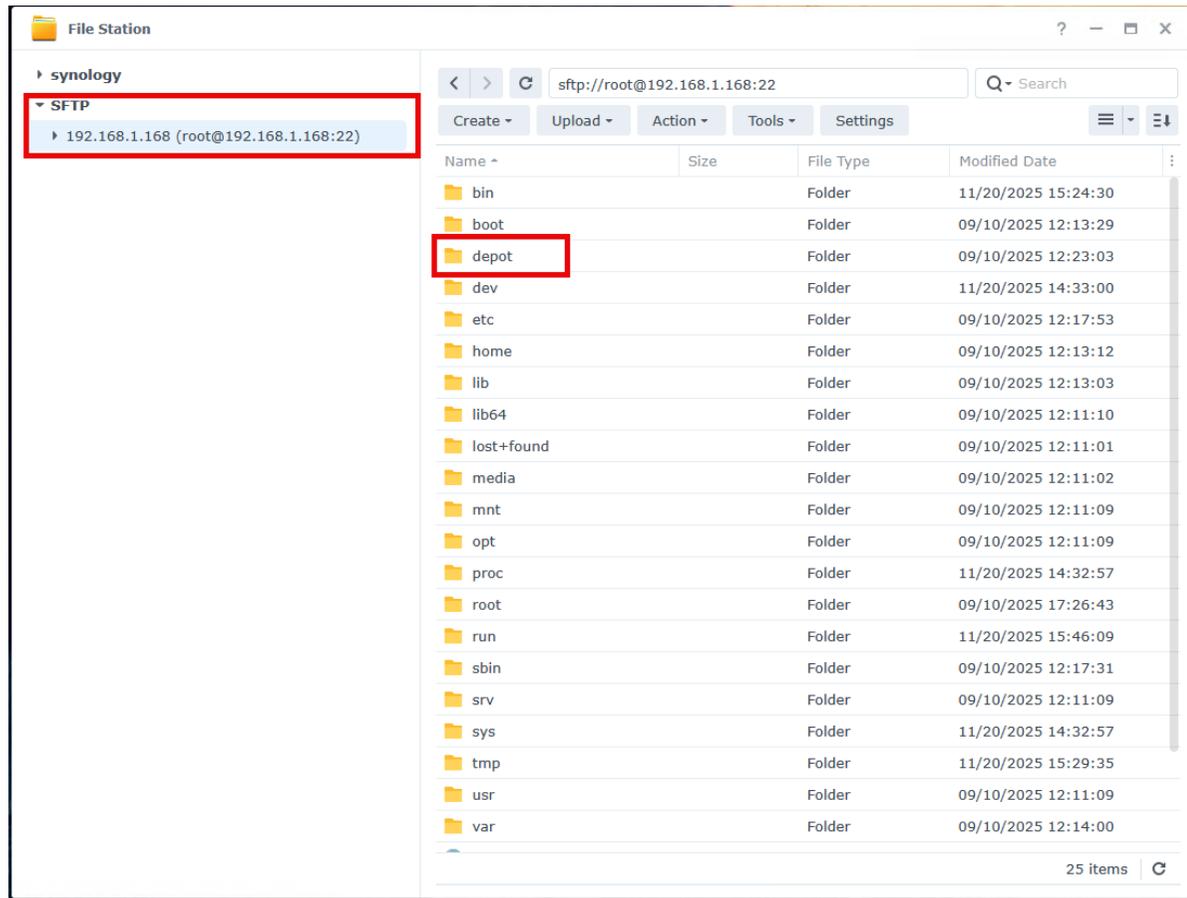
Copy content of /depot to Synology webroot
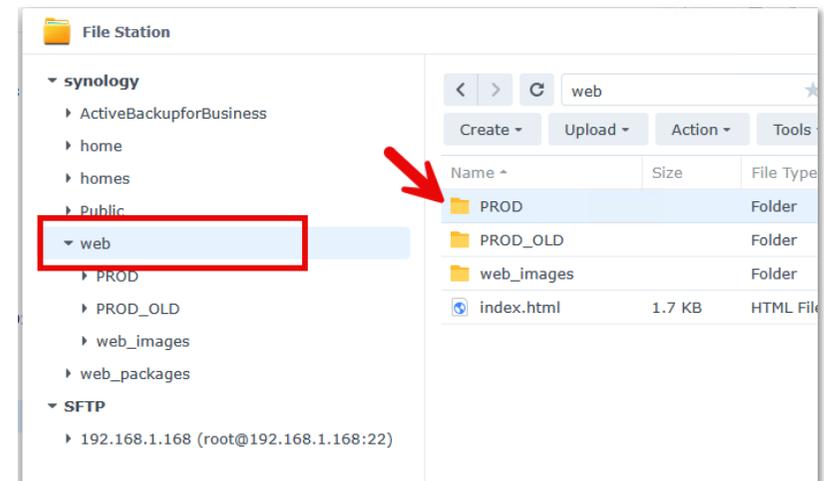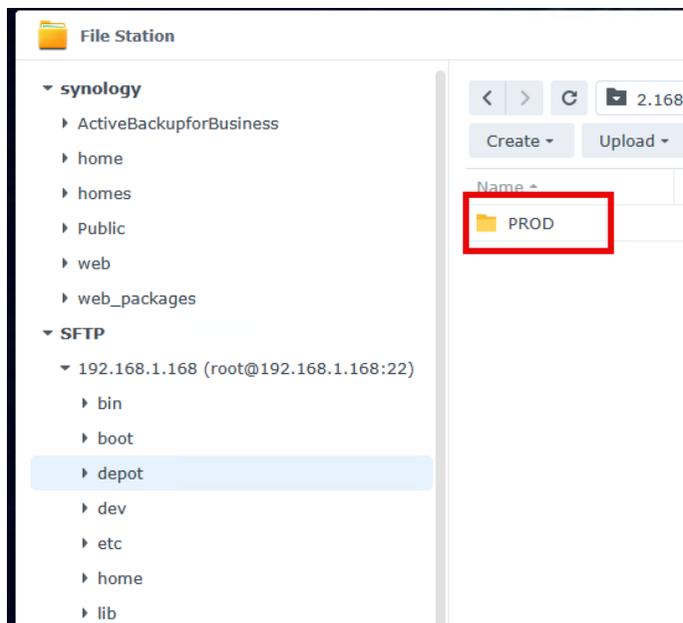
Create .htaccess file and .htpasswd file
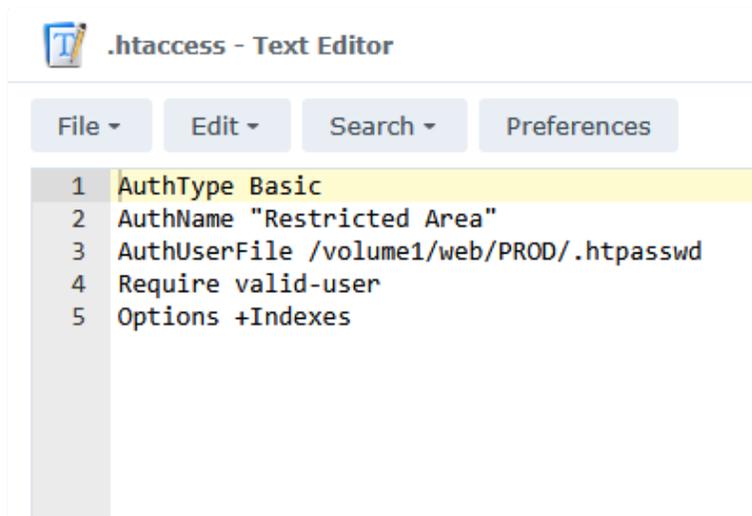
.htaccess - Text Editor

File ▾   Edit ▾   Search ▾   Preferences

```
1  AuthType Basic
2  AuthName "Restricted Area"
3  AuthUserFile /volume1/web/PROD/.htpasswd
4  Require valid-user
5  Options +Indexes
```
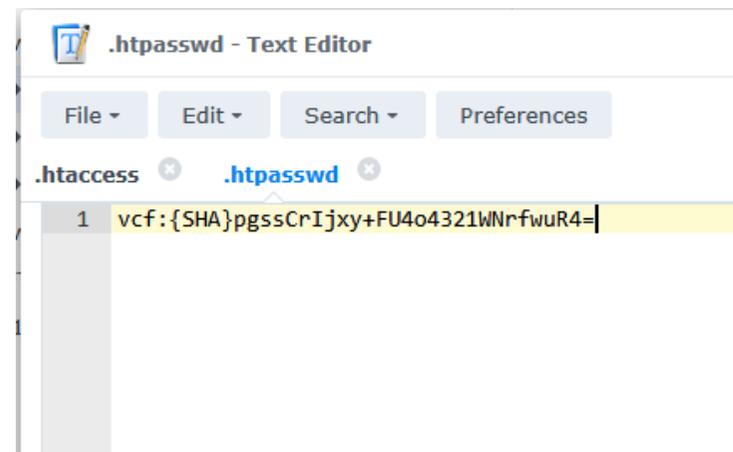

.htpasswd - Text Editor

File ▾   Edit ▾   Search ▾   Preferences

.htaccess ⊗   .htpasswd ⊗

```
1  vcf:{SHA}pgssCrIjxy+FU4o4321WNrfwuR4=
```

Place .htaccess file and .htpasswd file in /web/PROD
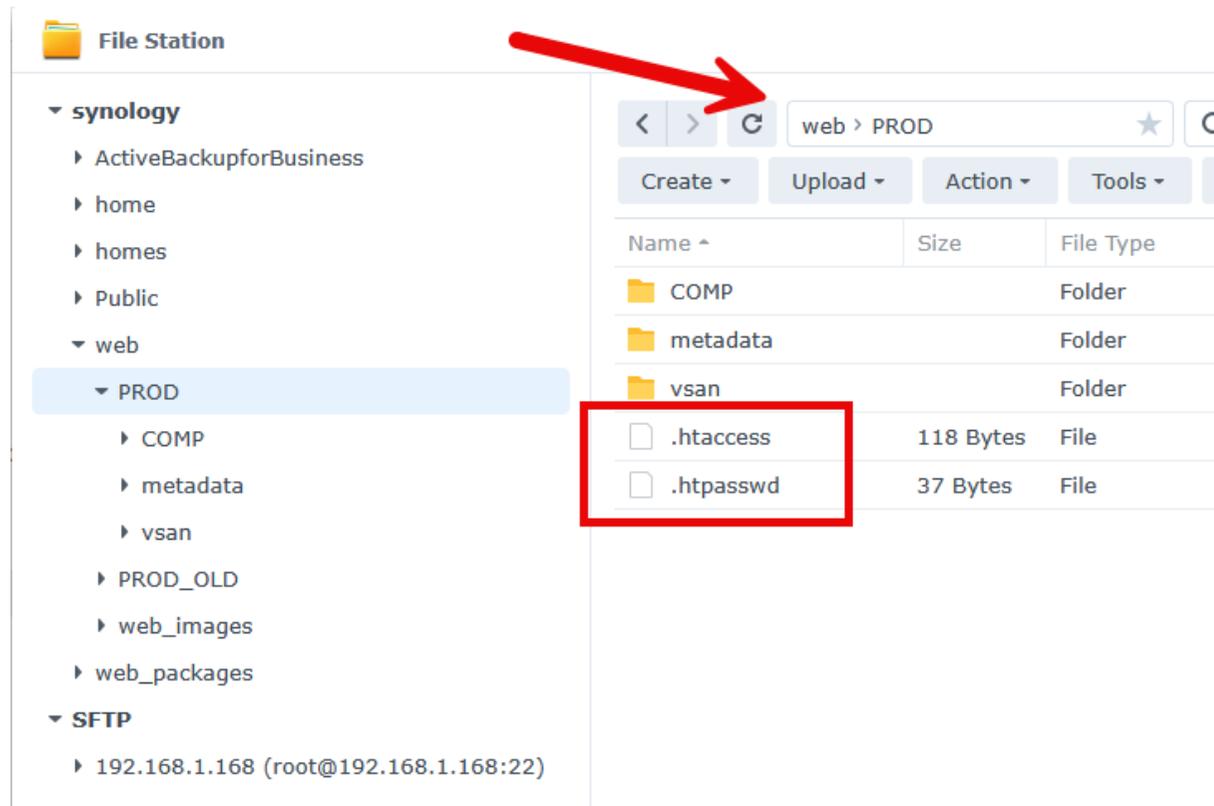
Test Synology depot via web browser
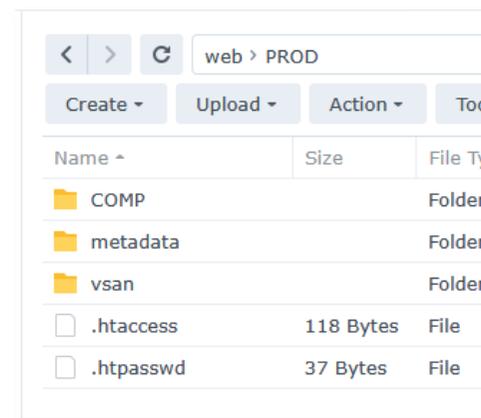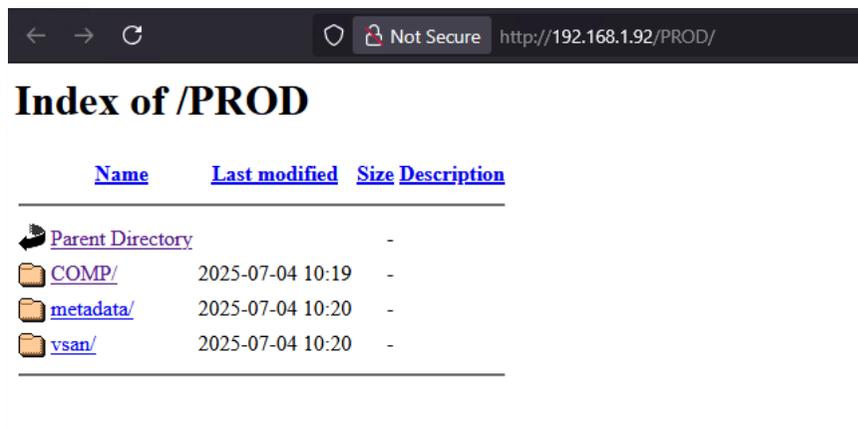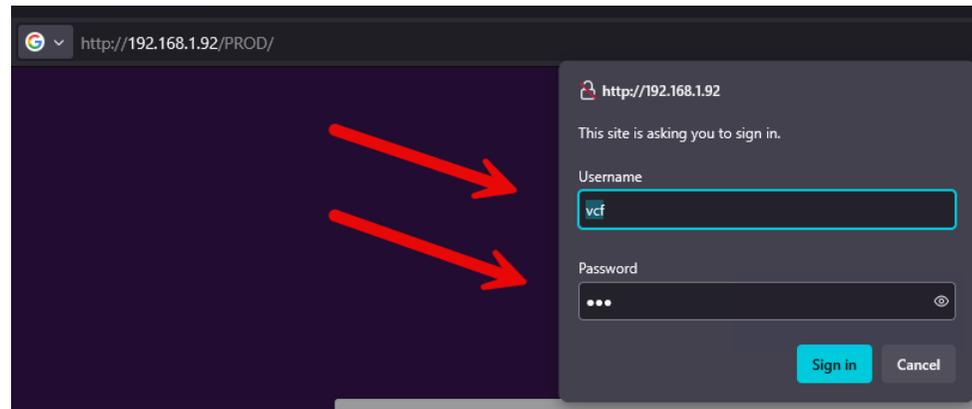
Disable SSL depot requirement on VCF Installer – why?

- It's a LAB
- It's an offline site (dark site) – secure by design
- K.I.S.S principle

Login to VCF Installer appliance using SSH

Edit the application-prod.properties file
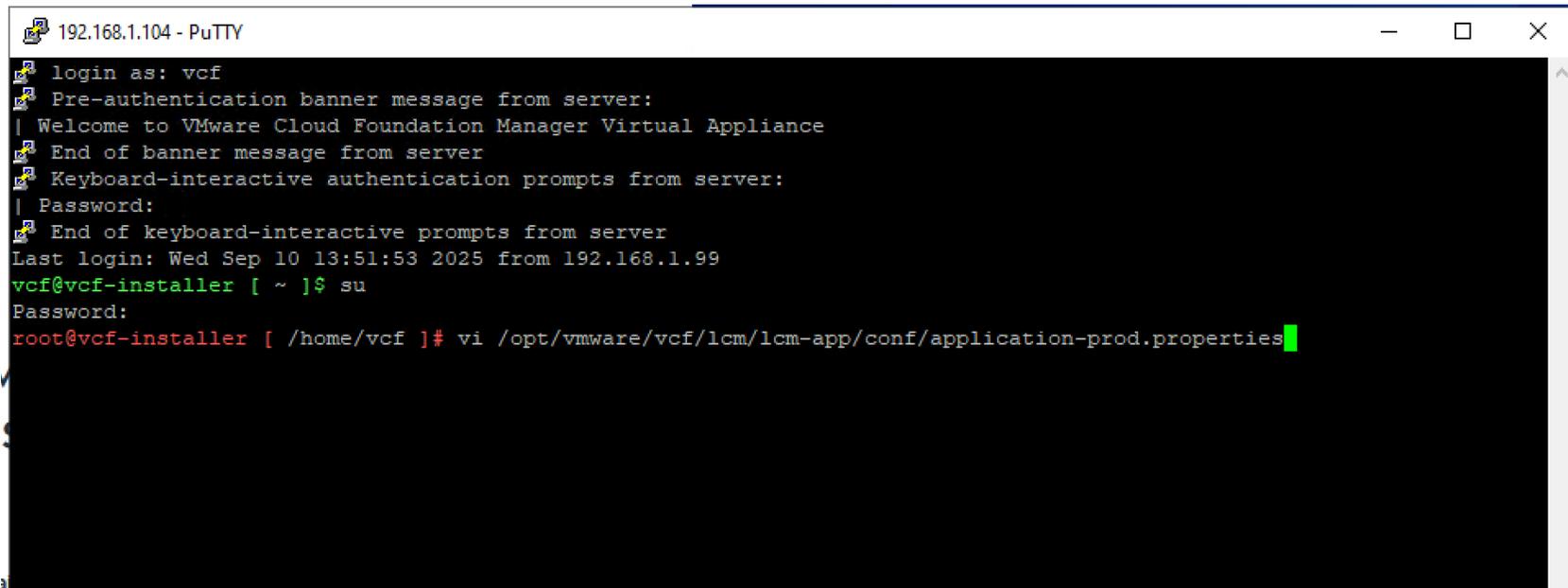

```
vi /opt/vmware/vcf/lcm/lcm-app/conf/application-prod.properties
```

Add property and save file

`lcm.depot.adapter.httpsEnabled=false`

Restart LCM service


```
systemctl restart lcm
```

Login to VCF Installer
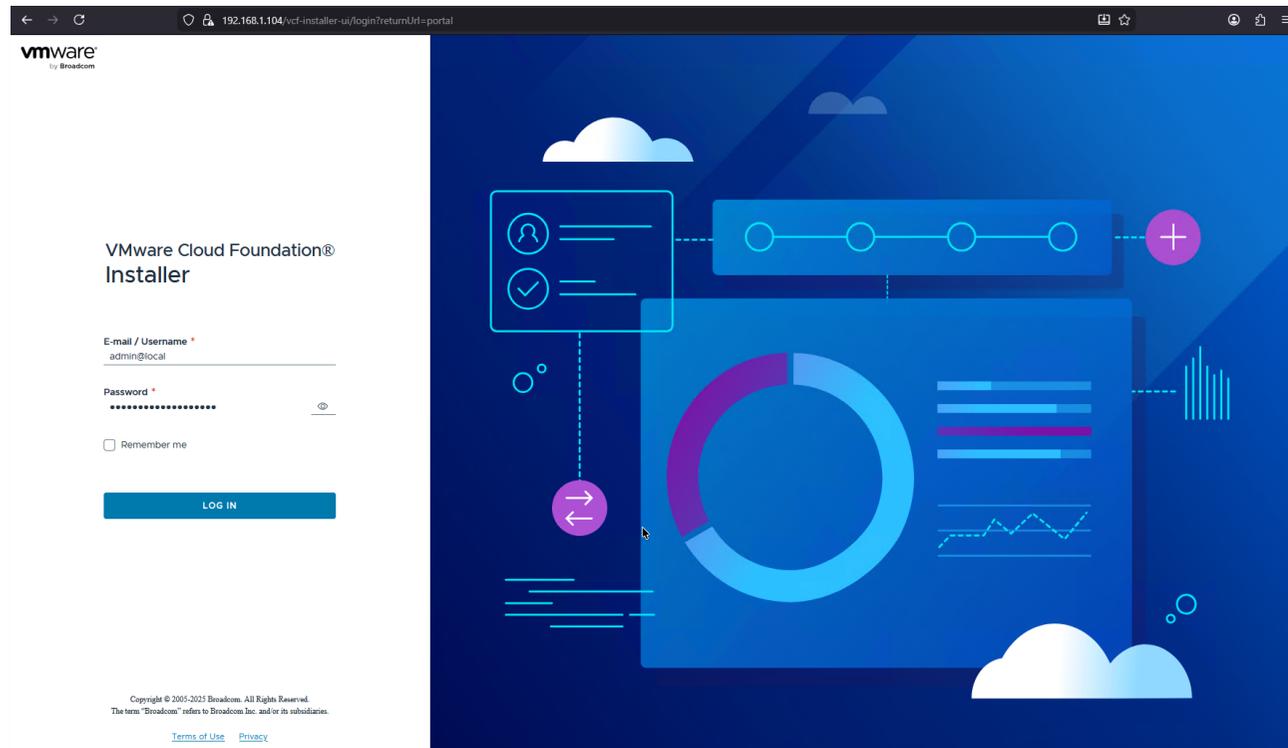
Configure Depot settings

Configure Offline Depot settings

Configure Offline Depot settings

Offline Depot   ✕

Enter your offline depot credentials.

FQDN or IP Address *   192.168.1.92
                             Must support HTTPS protocol
Port *   80

Username *   vcf

Password *   •••   👁

                                         CANCEL   CONFIGURE

Binaries should now be available

Connect to the online depot 🚫
Online depot connection not set up. Authenticate using your support.broadcom.com account to configure.
CONFIGURE

Offline Depot ✓
✓ Depot connection active
Hostname	192.168.1.92
Port	80
Username	vcf
EDIT DEPOT CONNECTION   DISCONNECT

Binary Management

˅ Download Summary

Version: 9.0.0.0   VMware vSphere Foundation (Downloaded)   VMware Cloud Foundation (Downloaded)

Filter the list by product and version and download the required component binaries. For additional guidance, refer to the Product Interoperability Matrix

Product VMware Cloud Foundation ˅   **Version** 9.0.0 ˅

DOWNLOAD   DELETE

		Component	Version	Size	Download Status
☐	»	SDDC Manager	9.0.0.0	2.00 GB	Success
☐	»	VMware Cloud Foundation Automation	9.0.0.0	21.17 GB	Success
☐	»	VMware Cloud Foundation Operations	9.0.0.0	2.63 GB	Success
☐	»	VMware Cloud Foundation Operations Collector	9.0.0.0	2.68 GB	Success
☐	»	VMware Cloud Foundation Operations fleet management	9.0.0.0	1.49 GB	Success
☐	»	VMware NSX	9.0.0.0	9.99 GB	Success

Check the video here:

Questions?