Procedimento de atualização do CSP 2100

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Introduction

Este documento descreve o procedimento para fazer uma atualização da Cisco Cloud Services Platform (CSP) 2100.
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Prerequisites

Requirements

A Cisco recomenda que você tenha conhecimento do Cisco CSP 2100.

Consulte as notas de versão antes da atualização,

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/csp_2100/release_notes/b_Cisco_CSP_2100_ReleaseNotes_2_2_5.html

Consulte o guia de início rápido aqui,

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/csp_2100/quick_start/b_Cisco_CSP_2100_Quick_Start_2_2_5.html#id_14296

Additional Information

- CSP-2100-X1 é C220-M4S
- O CSP-2100-X2 é C240-M4S

Componente usado

As informações neste documento são baseadas nestas versões de software e hardware,

- CSP 2100
- Servidor UCS C220 M4S Series - Cisco Integrated Management Controller (CIMC)
- KVM (Keyboard Video Mouse, mouse de vídeo de teclado) para mapear mídia virtual
- Software CSP 2100 como imagem ISO, de https://software.cisco.com/download/home/286286769/type/286289082/release/2.2.5

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. Se a sua rede estiver ativa, certifique-se de que você entende o impacto potencial de qualquer alteração ou configuração. A Cisco recomenda fazer backup da configuração antes de continuar com a atualização.

Cenário

Neste cenário, estamos atualizando o CSP 2100 da **versão 2.2.4** para **2.2.5**

Procedimento

Note: Certifique-se de que durante a atualização a conectividade de rede não oscile entre a estação de trabalho onde o console KVM está sendo executado no CSP-2100.

ETAPA 1. Use o console CIMC KVM e verifique o firmware atual executando o comando **"show version"**.

```
csp2100a# show version

Cisco Cloud Services Platform Software, 2100 Software (CSP-2100), Version 2.2.4 Build:48
TAC Support: http://www.cisco.com/tac
Copyright (c) 2016 by Cisco Systems, Inc
Compiled Thursday 21-December-2017 20:30

Linux csp2100a 3.10.0-693.5.2.el7.x86_64 #1 SMP Fri Oct 13 10:46:25 EDT 2017 x86_64 x86_64 x86_64 GNU/Linux
Red Hat Enterprise Linux Server release 7.3 (Maipo)
CSP-2100 uptime is 11 weeks, 1 day, 10 hours, 54 minutes, 3 seconds

Cisco UCSC-C220-M4S, Version C220M4.3.0.3c.0.0831170216, processor Intel(R) Xeon(R) CPU E5-2690 v3 @ 2.60GHz
48 CPUs with 29774044 kB / 65757260 kB of memory
L1d cache 32K, L1i cache 32K, L2 cache 256K, L3 cache 30720K

4 - Total Physical Interfaces (PNICs)
   1 -  1 Gbps Physical Interfaces (PNICs) Up
   2 - 10 Gbps Physical Interfaces (PNICs) Up
   1 -  1 Gbps Physical Interfaces (PNICs) Down/Unconnected

32 - Total SR-IOV virtual function (VF) interfaces enabled
   0 - Number VF Interfaces currently in service use
```

ETAPA 2. Salve a configuração com o comando **"save config-file filename.save"** (Recomendado).

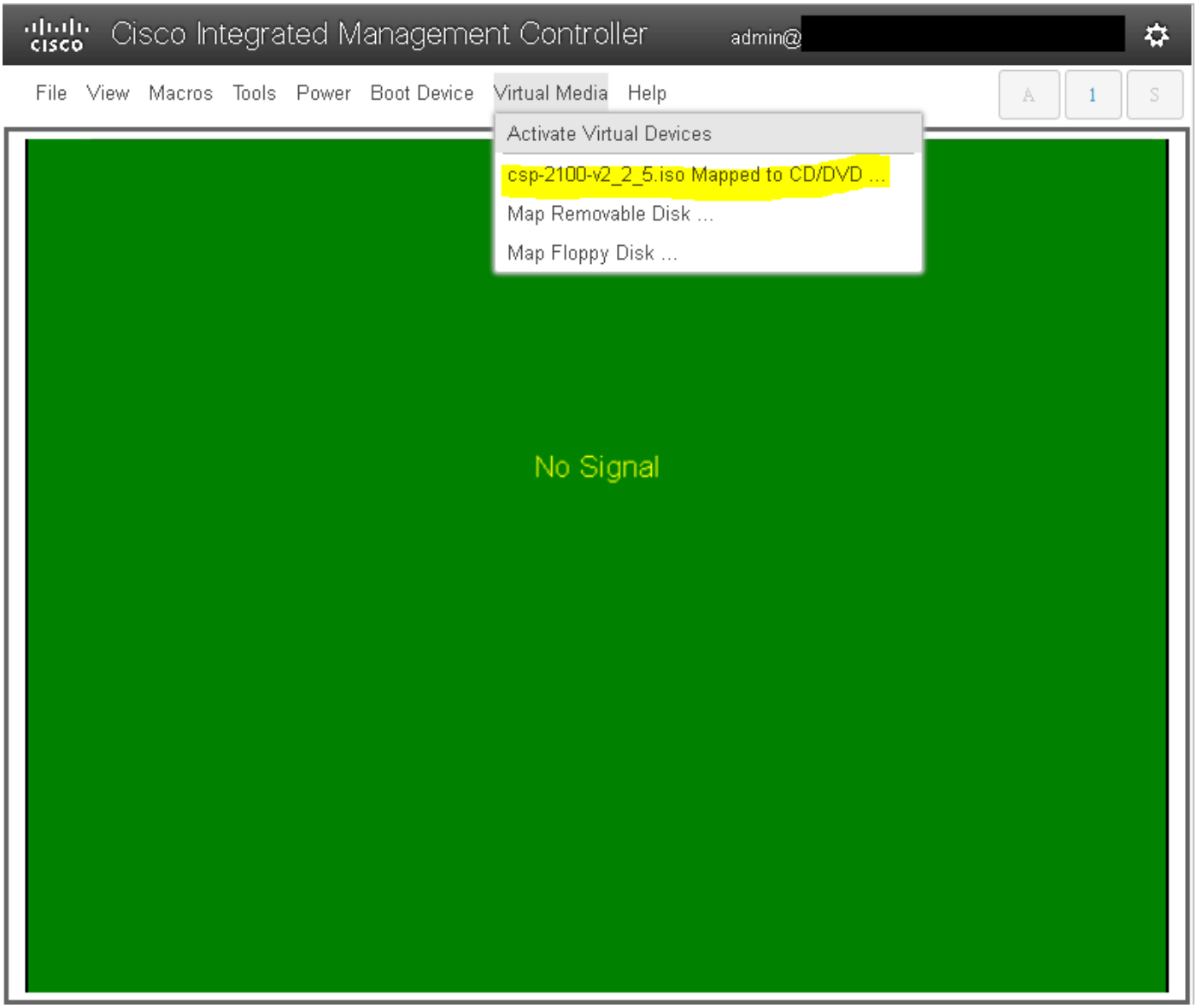
```
csp2100a# save config-file config_backup.sav
```

ETAPA 3. Verifique se o arquivo **config_backup.save** foi gerado

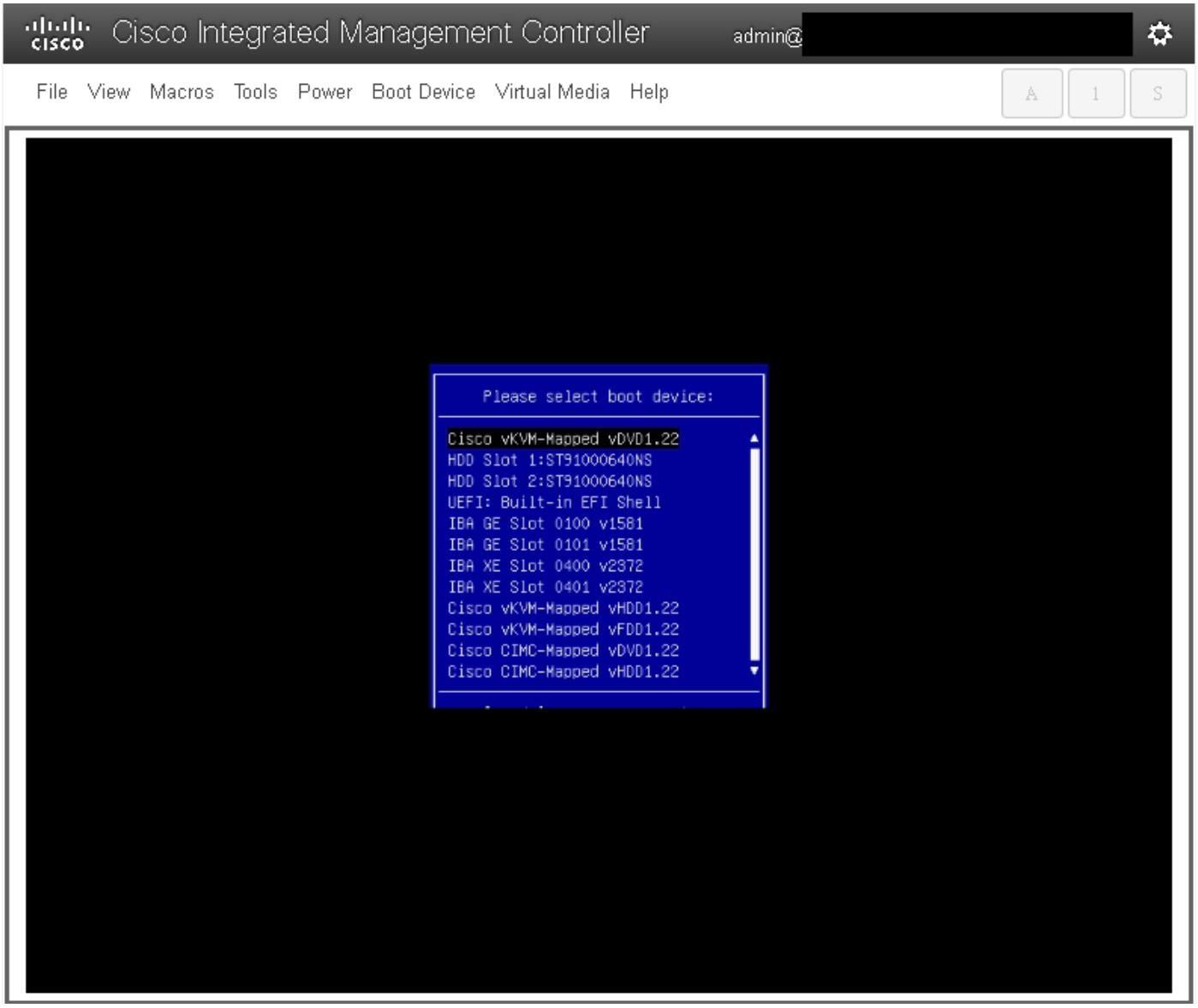
```
csp2100a# show repository
Local storage:
        File Name                 Last Modified              Size
pnic_utils.py                Fri Feb 16 13:53:26 2018          16660
controller-17.2.6-9019.qcow2 Fri Feb  2 04:35:45 2018      2366544384
config_backup.sav            Thu Apr 19 20:57:20 2018            2778
dplugdisk2                   Tue Mar  6 14:17:27 2018         3145728
se.qcow2                     Sun Feb  4 01:56:59 2018       671525376
avi_meta_controller.yml      Fri Feb  2 16:30:48 2018             121
avi_meta_data_se-1.yml       Mon Feb  5 17:17:59 2018             180
csp_show_tech.tar.gz         Thu Feb  1 17:53:16 2018         9904003
```

ETAPA 4. Baixe a imagem iso para CSP 2100 de https://software.cisco.com/download/home/286286769/type/286289082/release/2.2.5

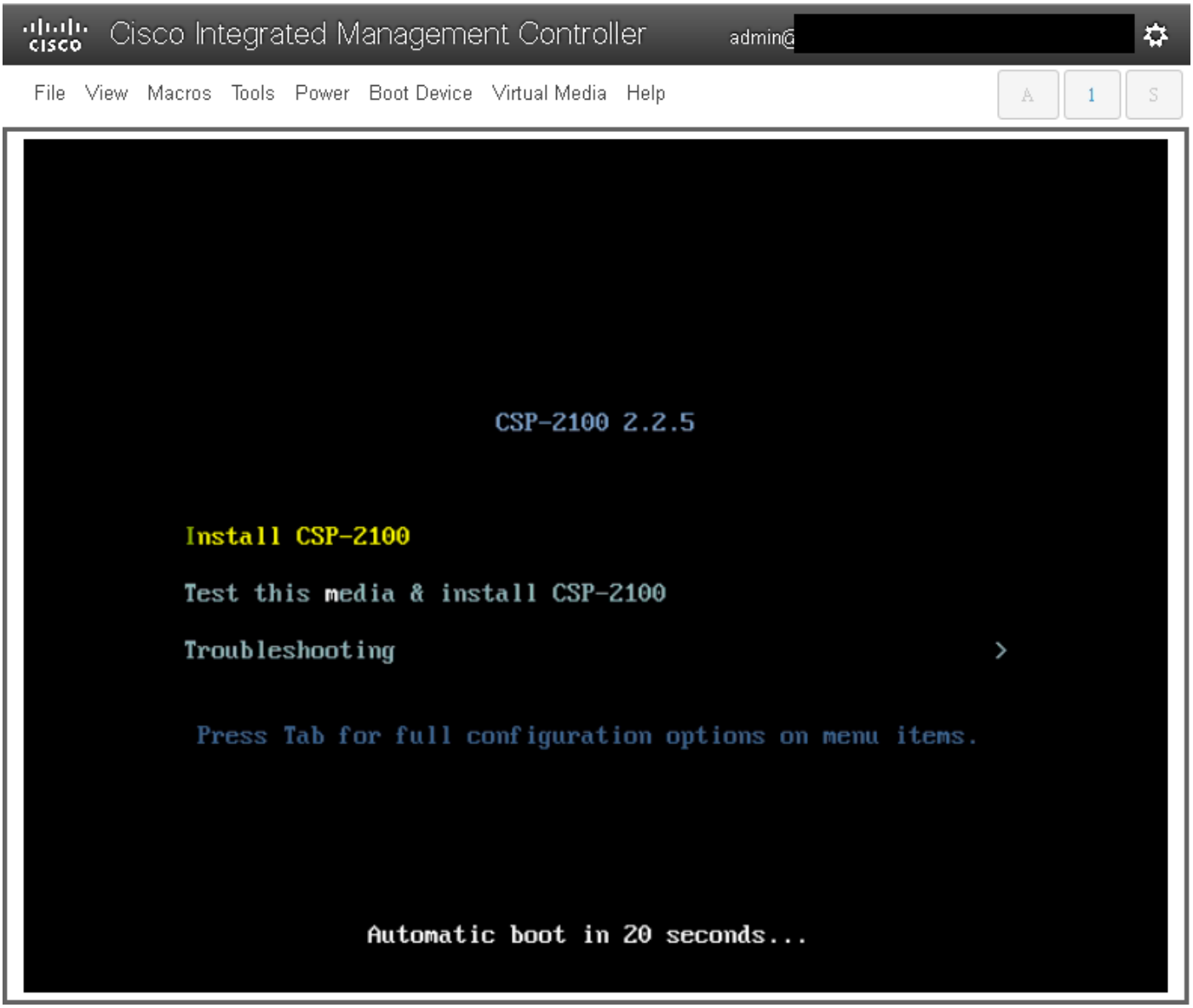
ETAPA 5. Abra o KVM e mapeie a imagem ISO.



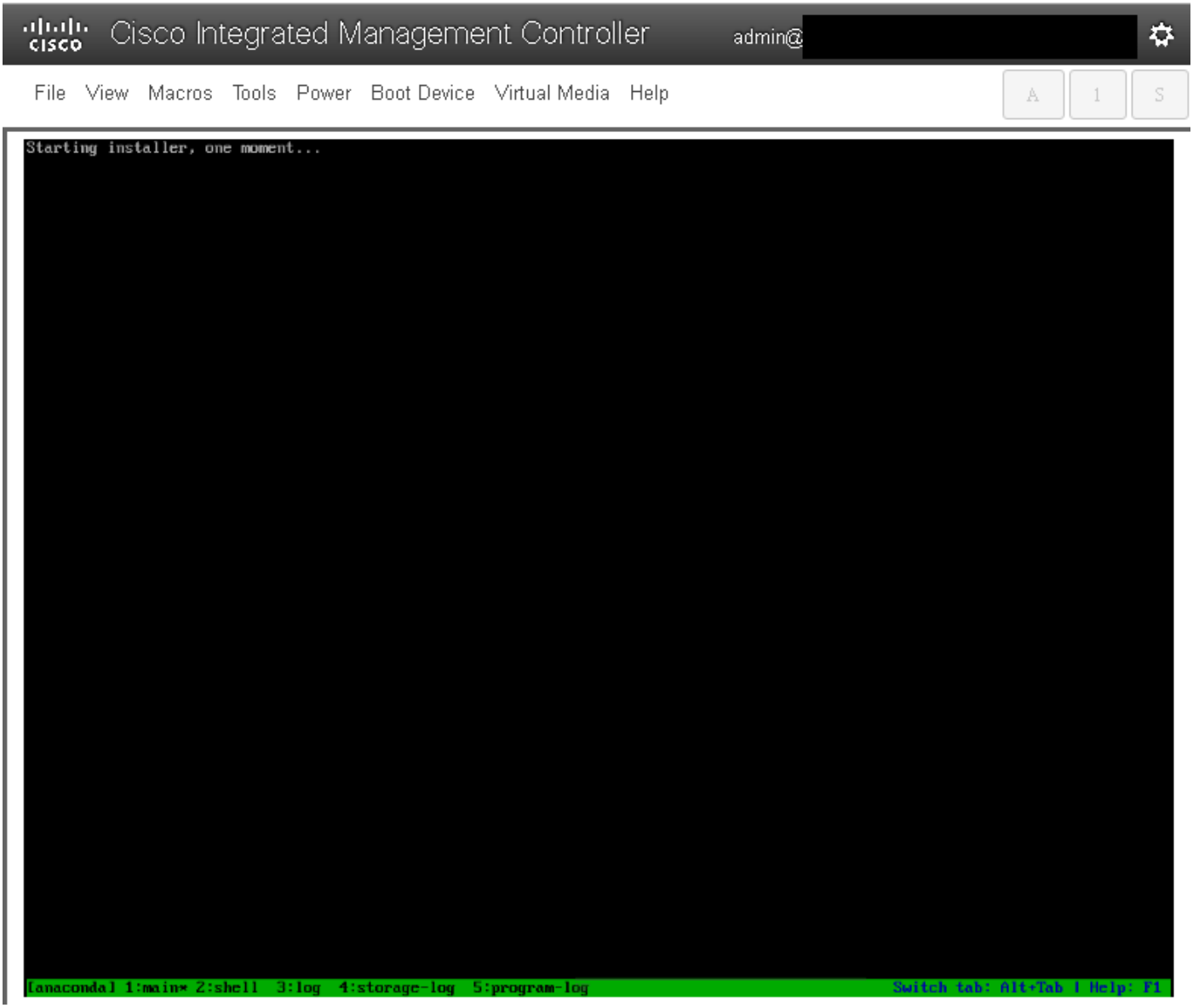
ETAPA 6. **Ligue e desligue o servidor (reinicialização a frio)** e **pressione F6** para entrar em **"Boot Selection Menu"** e selecione **"Cisco vKVM-Mapped vDVD1.22"**

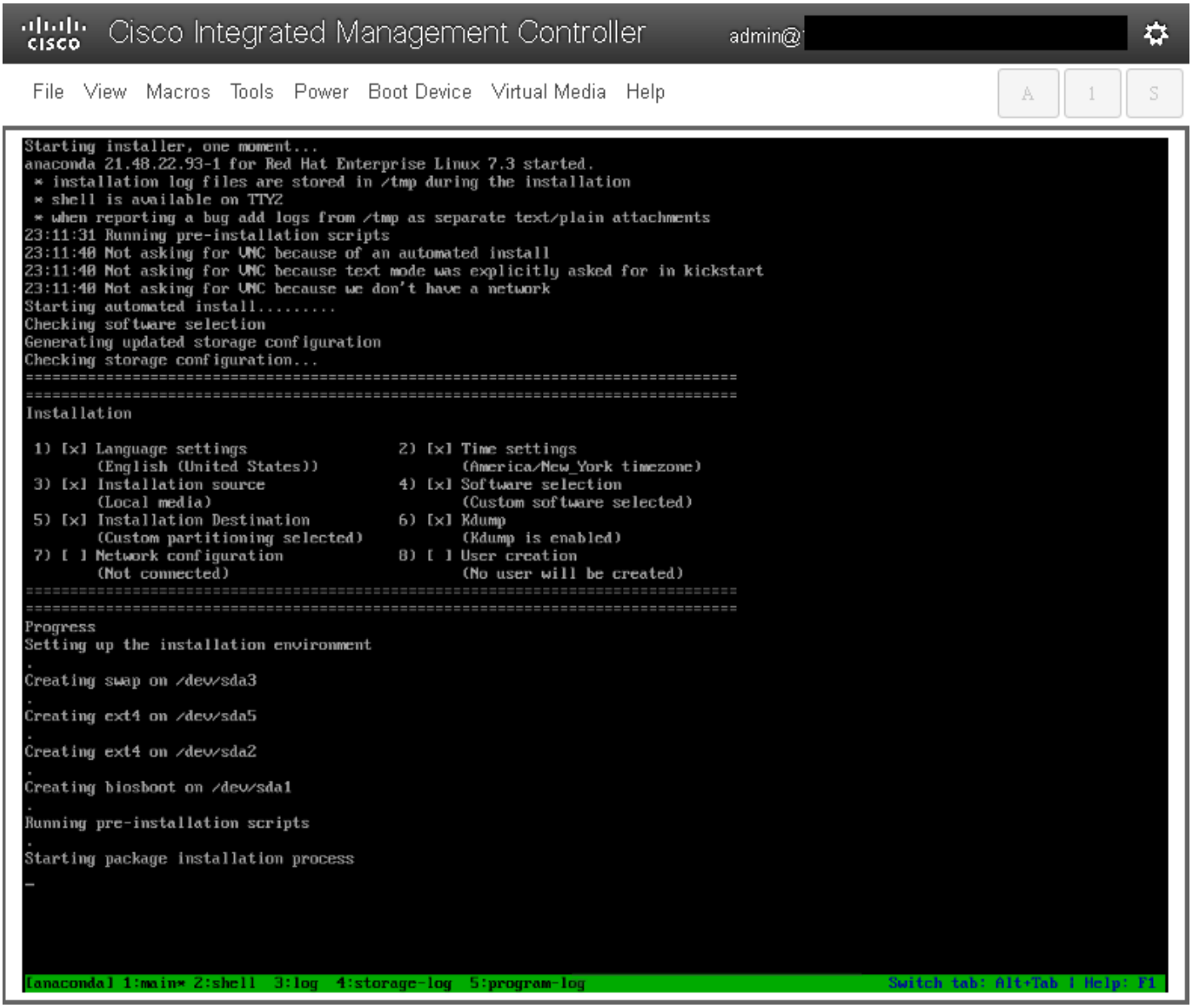


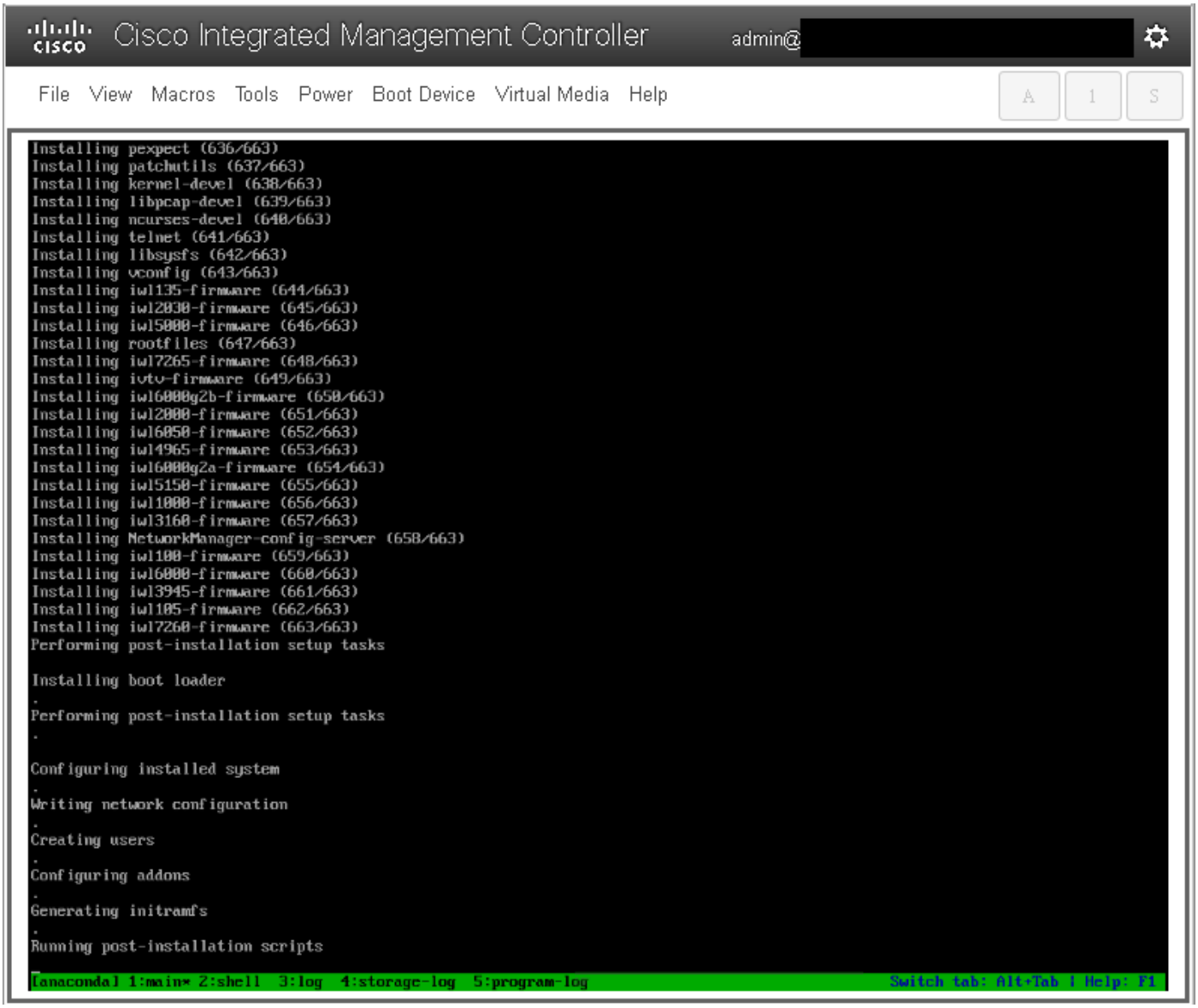
PASSO 7. Quando a imagem ISO for inicializada, selecione **"Install CSP-2100" (Instalar CSP-2100).** Embora estejamos selecionando **"Install CSP-2100"**, isso ainda vai executar a **atualização**.



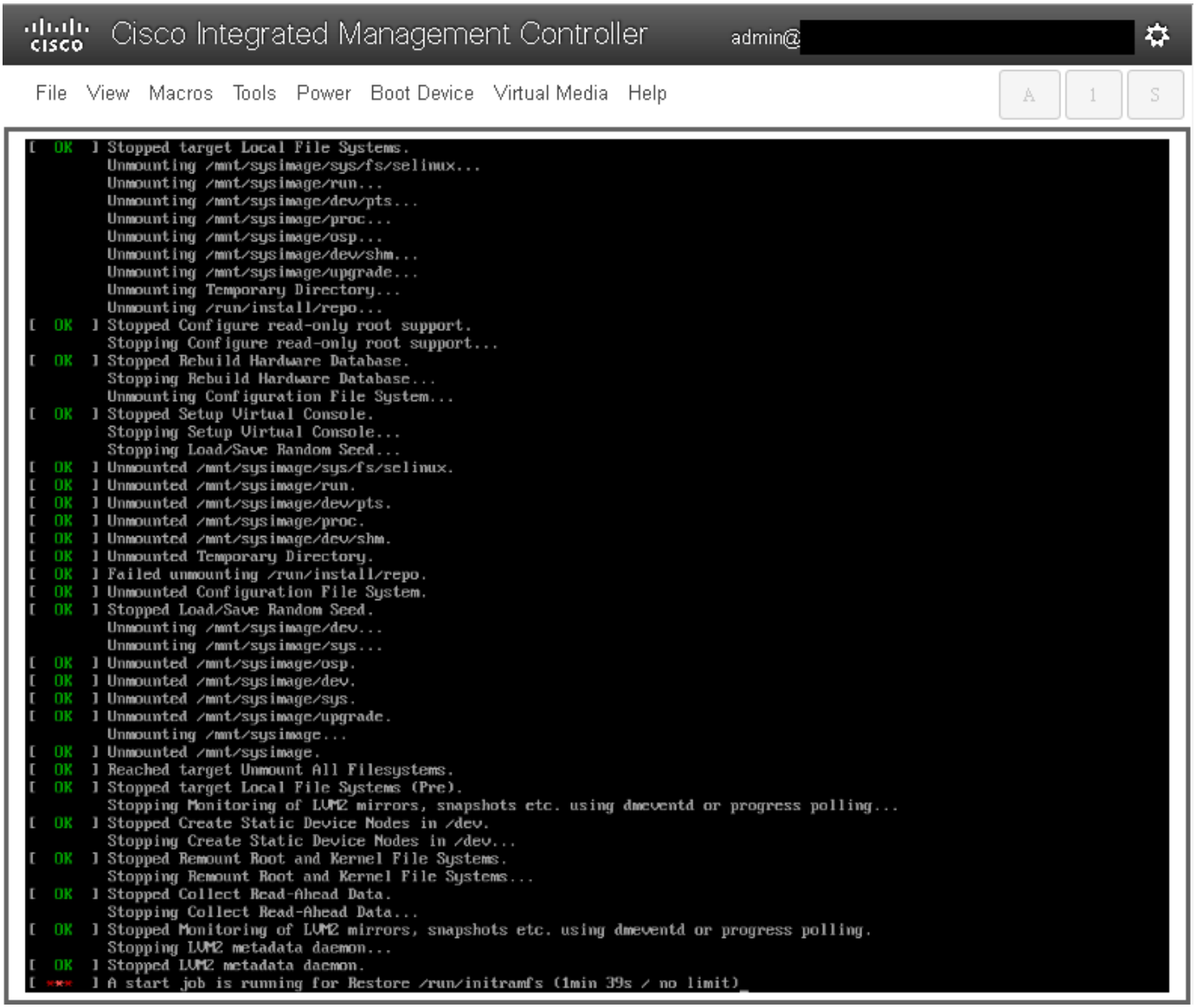
ETAPA 8. O processo de instalação é iniciado e leva cerca de **45 a 50 minutos** para ser concluído, durante os quais o instalador executará **scripts de instalação de pré-atualização e pós-atualização** para atualizar o CSP 2100 para a nova versão do firmware.

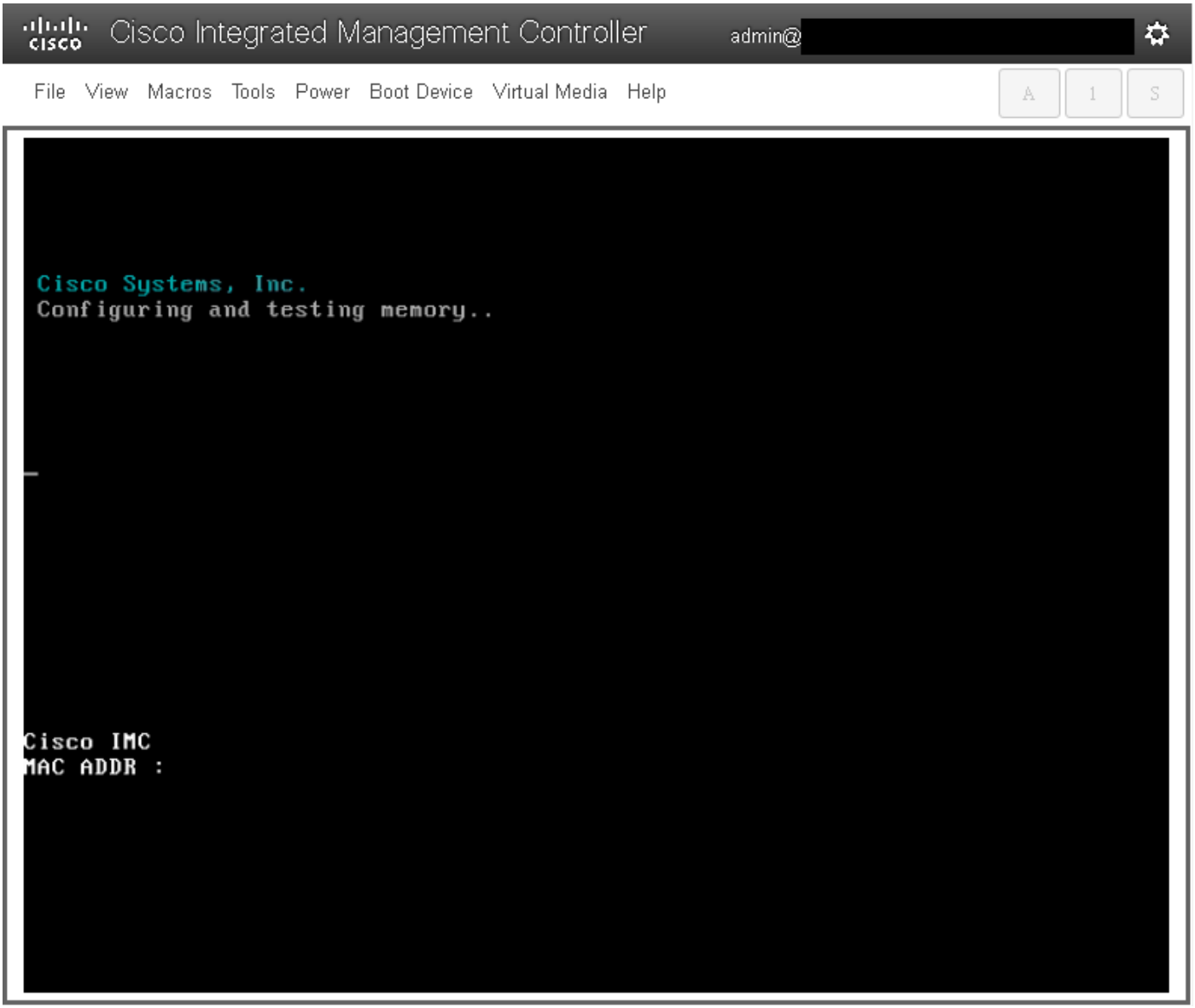

Cisco Integrated Management Controller
admin@
File View Macros Tools Power Boot Device Virtual Media Help
A 1 S
Starting installer, one moment...
[anaconda] 1:main* 2:shell 3:log 4:storage-log 5:program-log
Switch tab: Alt+Tab | Help: F1


Cisco Integrated Management Controller
admin@
File View Macros Tools Power Boot Device Virtual Media Help
A 1 S
Starting installer, one moment...
anaconda 21.48.22.93-1 for Red Hat Enterprise Linux 7.3 started.
* installation log files are stored in /tmp during the installation
* shell is available on TTY2
* when reporting a bug add logs from /tmp as separate text/plain attachments
23:11:31 Running pre-installation scripts
23:11:40 Not asking for VNC because of an automated install
23:11:40 Not asking for VNC because text mode was explicitly asked for in kickstart
23:11:40 Not asking for VNC because we don't have a network
Starting automated install.....
Checking software selection
Generating updated storage configuration
Checking storage configuration...
Installation
1) [x] Language settings
(English (United States))
2) [x] Time settings
(America/New_York timezone)
3) [x] Installation source
(Local media)
4) [x] Software selection
(Custom software selected)
5) [x] Installation Destination
(Custom partitioning selected)
6) [x] Kdump
(Kdump is enabled)
7) [ ] Network configuration
(Not connected)
8) [ ] User creation
(No user will be created)
Progress
Setting up the installation environment
Creating swap on /dev/sda3
Creating ext4 on /dev/sda5
Creating ext4 on /dev/sda2
Creating biosboot on /dev/sda1
Running pre-installation scripts
Starting package installation process
[anaconda] 1:main* 2:shell 3:log 4:storage-log 5:program-log
Switch tab: Alt+Tab | Help: F1



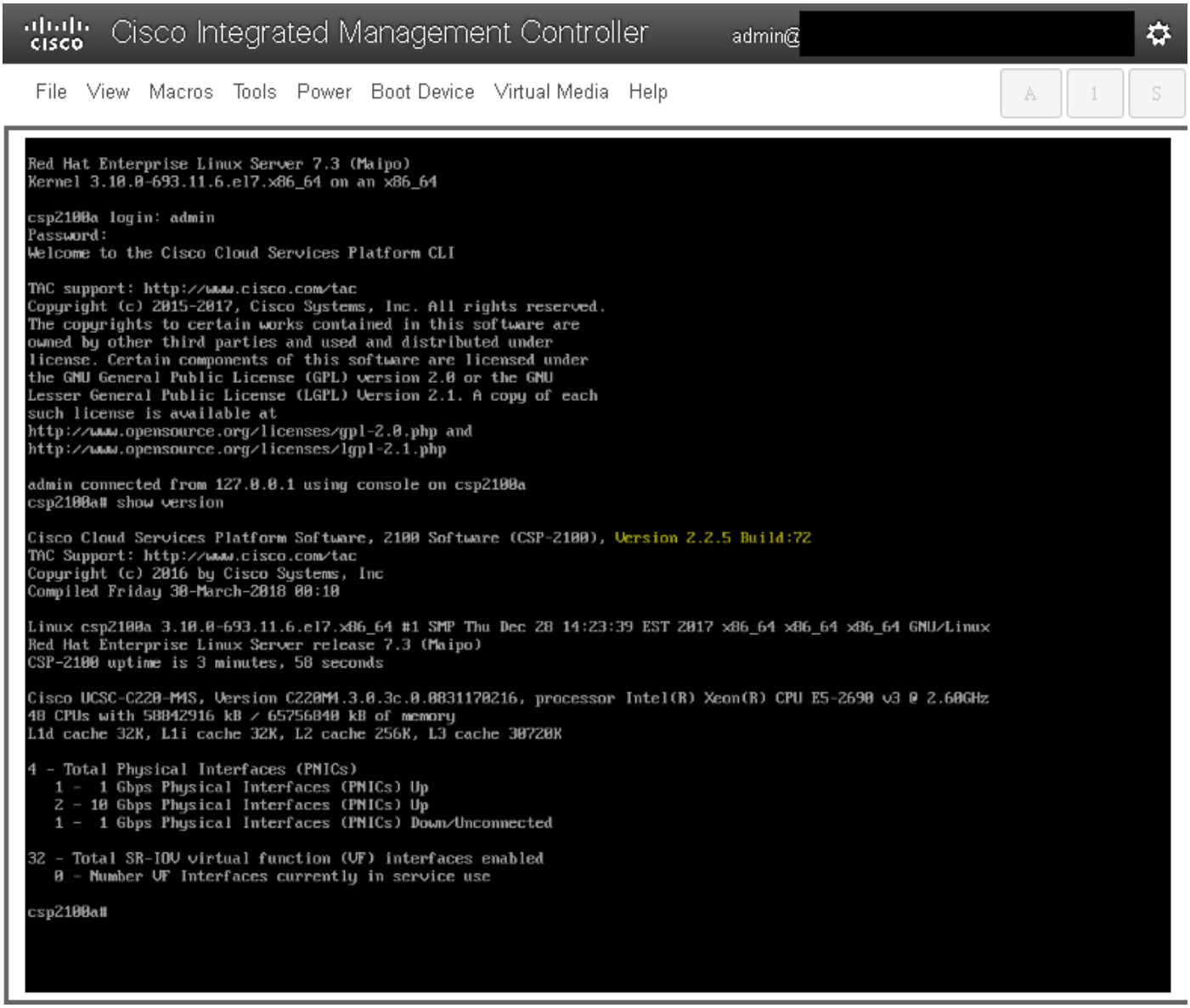
ETAPA 9. Após **executar scripts de pós-instalação**, todos os serviços são interrompidos e o servidor é reinicializado:


Cisco Integrated Management Controller
admin@
File View Macros Tools Power Boot Device Virtual Media Help
A 1 S
[OK] Stopped target Local File Systems.
Unmounting /mnt/sysimage/sys/fs/selinux...
Unmounting /mnt/sysimage/run...
Unmounting /mnt/sysimage/dev/pts...
Unmounting /mnt/sysimage/proc...
Unmounting /mnt/sysimage/osp...
Unmounting /mnt/sysimage/dev/shm...
Unmounting /mnt/sysimage/upgrade...
Unmounting Temporary Directory...
Unmounting /run/install/repo...
[OK] Stopped Configure read-only root support.
Stopping Configure read-only root support...
[OK] Stopped Rebuild Hardware Database.
Stopping Rebuild Hardware Database...
Unmounting Configuration File System...
[OK] Stopped Setup Virtual Console.
Stopping Setup Virtual Console...
Stopping Load/Save Random Seed...
[OK] Unmounted /mnt/sysimage/sys/fs/selinux.
[OK] Unmounted /mnt/sysimage/run.
[OK] Unmounted /mnt/sysimage/dev/pts.
[OK] Unmounted /mnt/sysimage/proc.
[OK] Unmounted /mnt/sysimage/dev/shm.
[OK] Unmounted Temporary Directory.
[OK] Failed unmounting /run/install/repo.
[OK] Unmounted Configuration File System.
[OK] Stopped Load/Save Random Seed.
Unmounting /mnt/sysimage/dev...
Unmounting /mnt/sysimage/sys...
[OK] Unmounted /mnt/sysimage/osp.
[OK] Unmounted /mnt/sysimage/dev.
[OK] Unmounted /mnt/sysimage/sys.
[OK] Unmounted /mnt/sysimage/upgrade.
Unmounting /mnt/sysimage...
[OK] Unmounted /mnt/sysimage.
[OK] Reached target Unmount All Filesystems.
[OK] Stopped target Local File Systems (Pre).
Stopping Monitoring of LVM2 mirrors, snapshots etc. using dmeventd or progress polling...
[OK] Stopped Create Static Device Nodes in /dev.
Stopping Create Static Device Nodes in /dev...
[OK] Stopped Remount Root and Kernel File Systems.
Stopping Remount Root and Kernel File Systems...
[OK] Stopped Collect Read-Ahead Data.
Stopping Collect Read-Ahead Data...
[OK] Stopped Monitoring of LVM2 mirrors, snapshots etc. using dmeventd or progress polling.
Stopping LVM2 metadata daemon...
[OK] Stopped LVM2 metadata daemon.
[***] A start job is running for Restore /run/initramfs (1min 39s / no limit)



Verificar

Quando todos os serviços forem iniciados, faça **login na conta de usuário** e **verifique a versão em execução** para confirmar o status da atualização.



********** Atualização concluída!! O CSP 2100 inicializa com a versão 2.2.5 !! **********