

0. Hardware Layout

Inspiron (Server Node):

- 80 GB SSD → OS
- 1 TB HDD → LOGS
- 500 GB HDD → VIDEO
- 500 GB HDD → BACKUP

OptiPlex (Control Center):

- 128 GB SSD → OS/UI/AI runtime
- 500 GB HDD → MODELS
- (Optional) 500 GB → GRAFANA

1. Inspiron Install (Server)

Label drives:

```
sudo e2label /dev/sdX1 LOGS
sudo e2label /dev/sdY1 VIDEO
sudo e2label /dev/sdZ1 BACKUP
```

Copy installer from USB:

```
cp /run/media/<user>/<USB_LABEL>/STARFLEET_INSTALL_SERVER.run ~/
```

Run installer:

```
chmod +x ~/STARFLEET_INSTALL_SERVER.run
./STARFLEET_INSTALL_SERVER.run
```

Reboot when prompted.

2. OptiPlex Install (Control Center)

Label drives:

```
sudo e2label /dev/sdA1 MODELS
(optional) sudo e2label /dev/sdB1 GRAFANA
```

Copy installer from USB:

```
cp /run/media/<user>/<USB_LABEL>/STARFLEET_INSTALL_CONTROL.run ~/
```

Run installer:

```
chmod +x ~/STARFLEET_INSTALL_CONTROL.run
./STARFLEET_INSTALL_CONTROL.run
```

Reboot when prompted.

Expect: LCARS Plymouth splash + fullscreen Chromium LCARS dashboard.

3. Post-Reboot Checks (Inspiron)

Verify services:

```
systemctl status starfleet_controlpanel
```

Verify API ping:

```
curl -s http://127.0.0.1:5080/ping
```

Verify mounts:

```
mount | egrep '/srv/(logs|video|backup)'
```

4. Post-Reboot Checks (OptiPlex)

Verify services:

```
systemctl status starfleet_controlpanel
```

Verify API ping:

```
curl -s http://127.0.0.1:5080/ping
```

Verify mounts:

```
mount | egrep '/srv/(models|grafana)'
```

5. WireGuard Mesh (Borg Collective)

On Inspiron:

```
sudo bash ~/starfleet_server/wg_mesh_setup.sh --address 10.31.0.1/24
```

```
cat /etc/wireguard/publickey
```

On OptiPlex:

```
sudo bash ~/starfleet_control/wg_mesh_setup.sh --address 10.31.0.2/24
```

```
cat /etc/wireguard/publickey
```

Exchange public keys. Build peer CSV lines:

```
OPTIPLEX,<OPTIPLEX_PUBKEY>,192.168.0.102,51820,10.31.0.2/32
```

```
INSPIRON,<INSPIRON_PUBKEY>,192.168.0.101,51820,10.31.0.1/32
```

Add peers using wg_mesh_setup.sh with --peer

Verify tunnel:

```
sudo wg show
```

```
ping -c3 10.31.0.2 # from Inspiron
```

```
ping -c3 10.31.0.1 # from OptiPlex
```

6. Collective Control (OptiPlex)

Open ~/starfleet_control/collective_control.html in Chromium.

Paste SUPER token from /etc/starfleet/controlpanel.env.

Peer URL: https://10.31.0.1 (over WG).

BasicAuth: user=ogre, password=generated at install.

Expect: Left = OptiPlex JSON, Right = Inspiron JSON.