

Deployment Tools & Concepts

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What Version?

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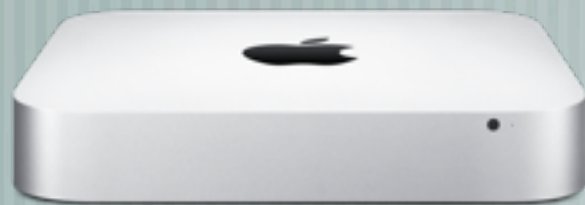
What Version?



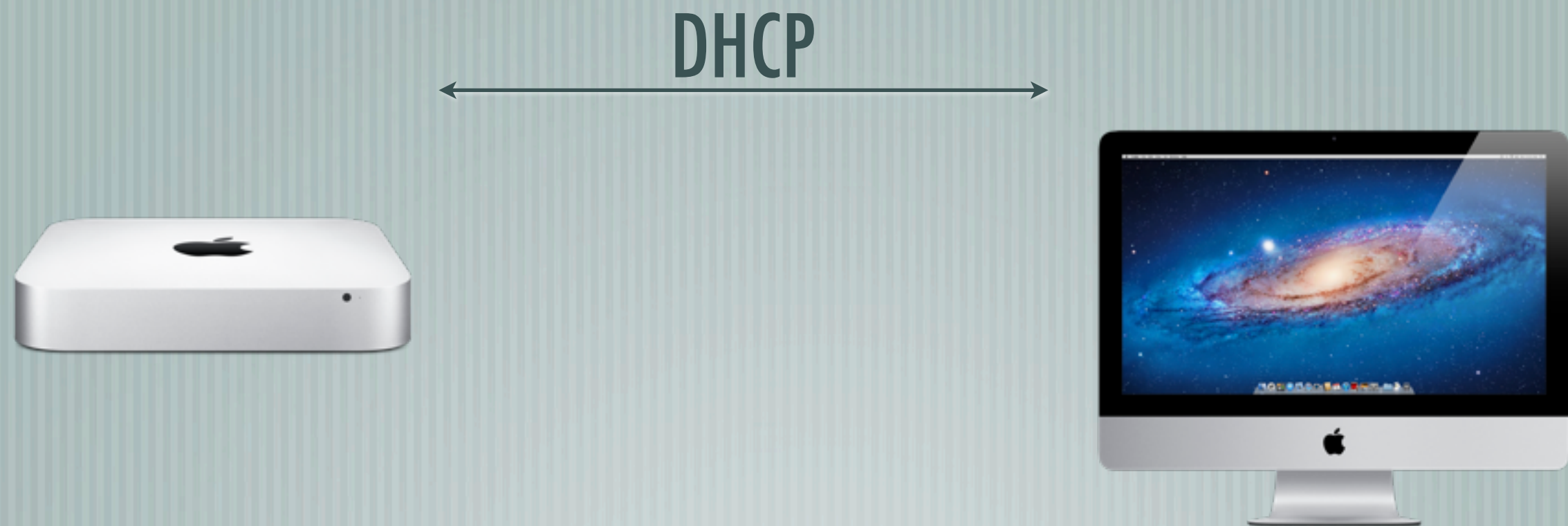
What Version?



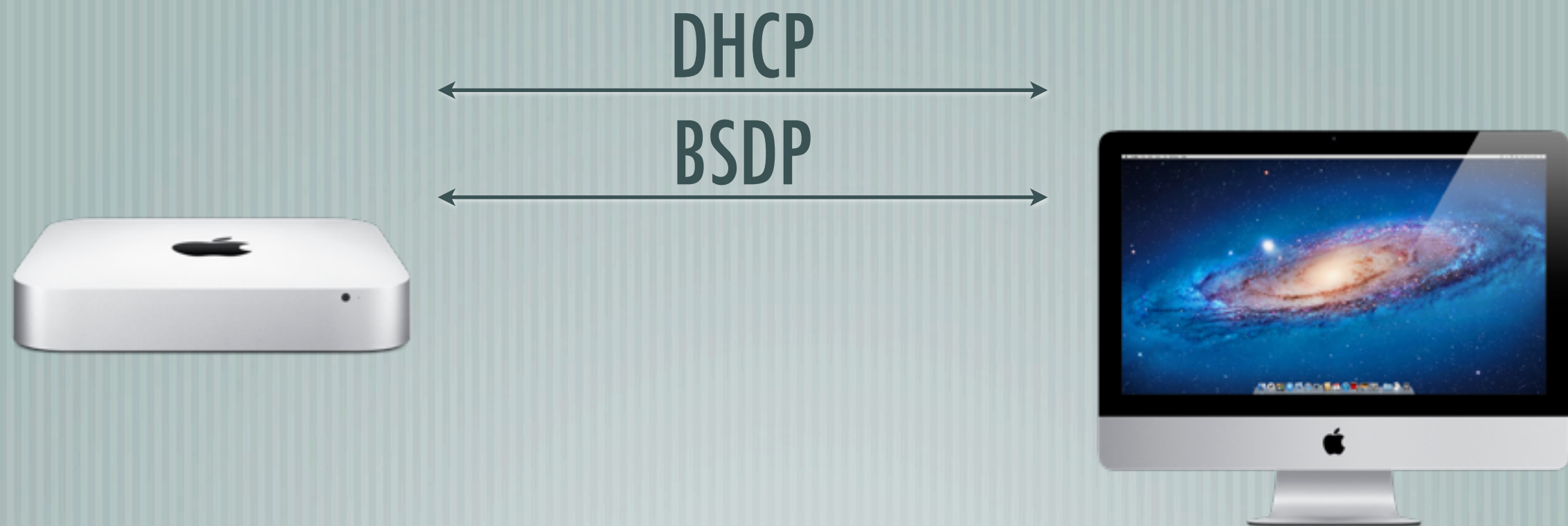
NetBoot



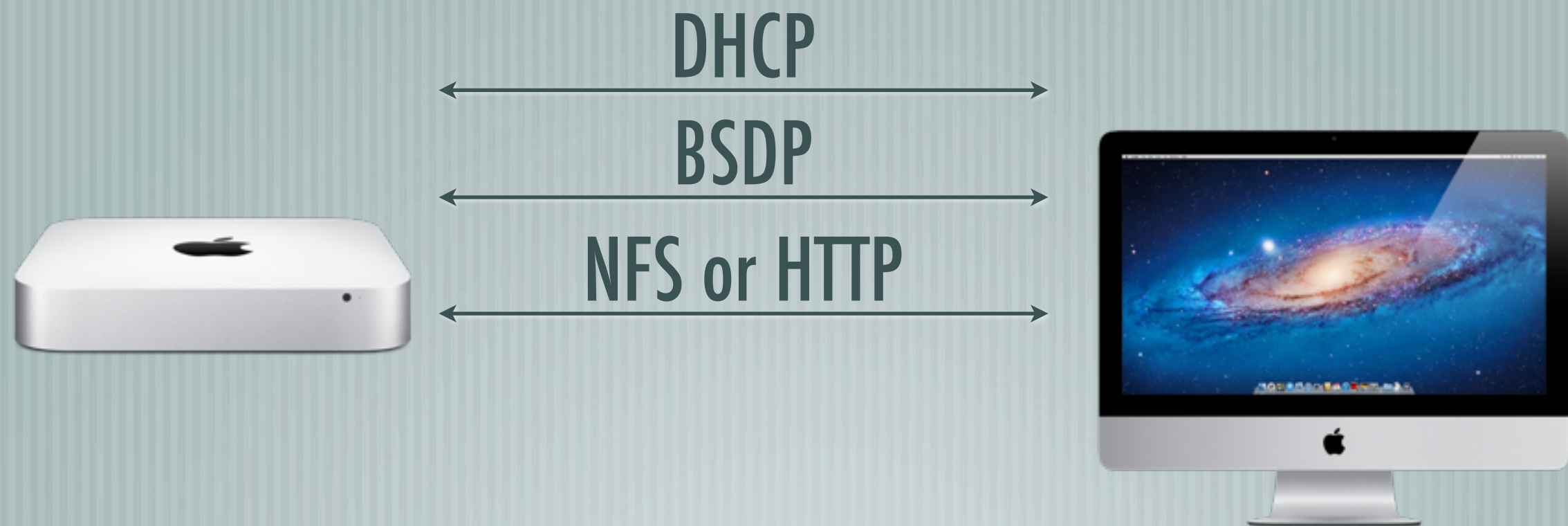
NetBoot



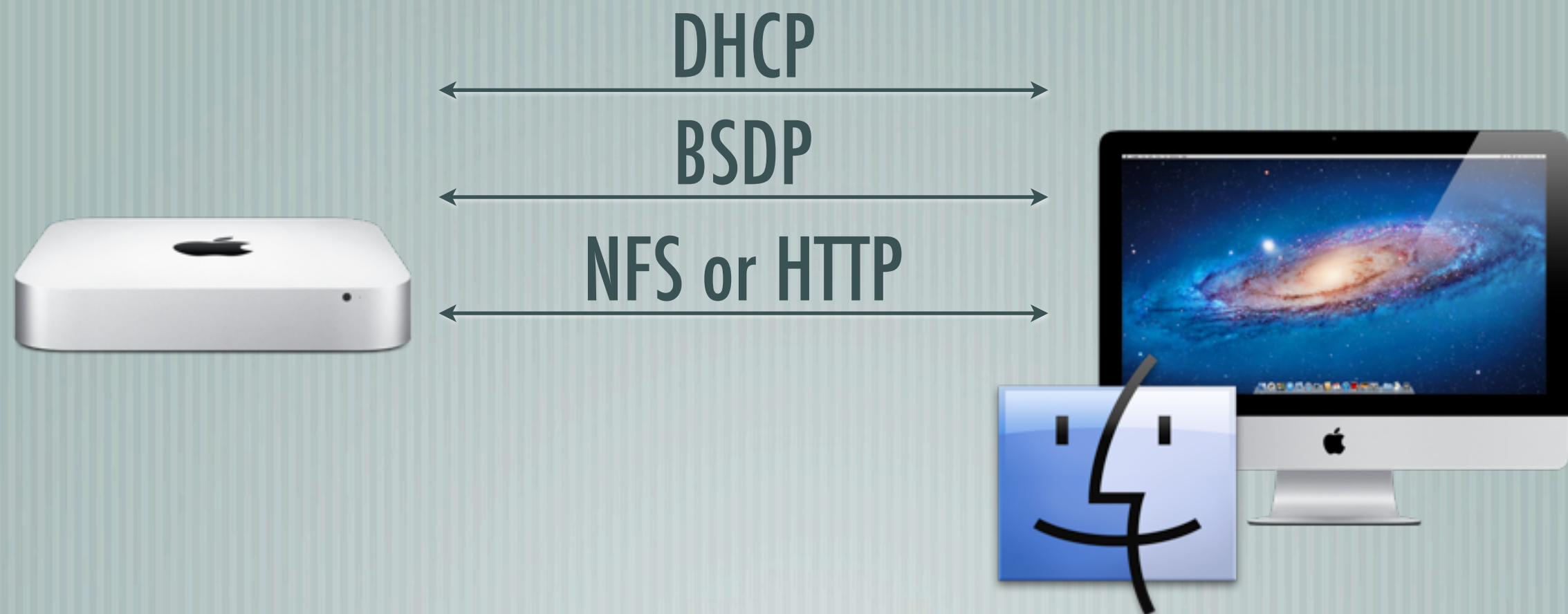
NetBoot



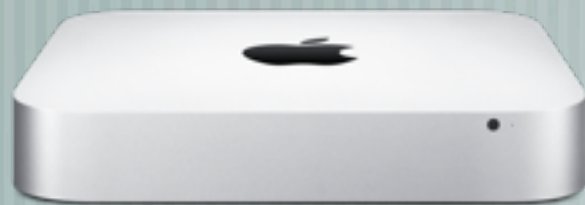
NetBoot



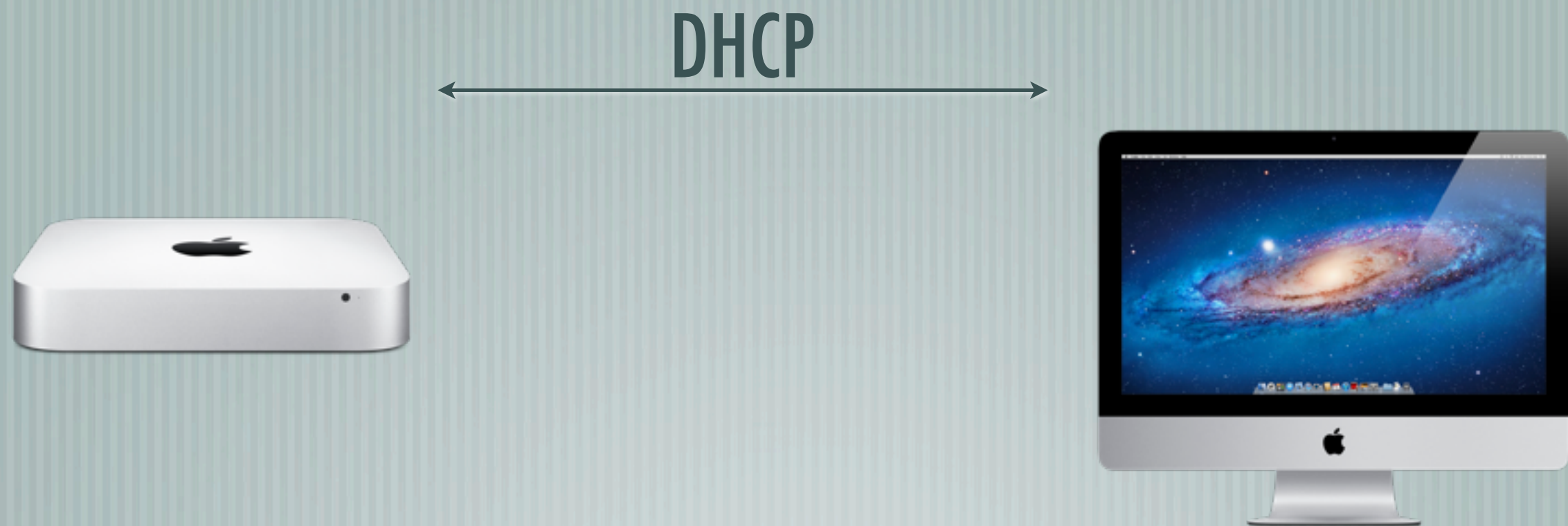
NetBoot



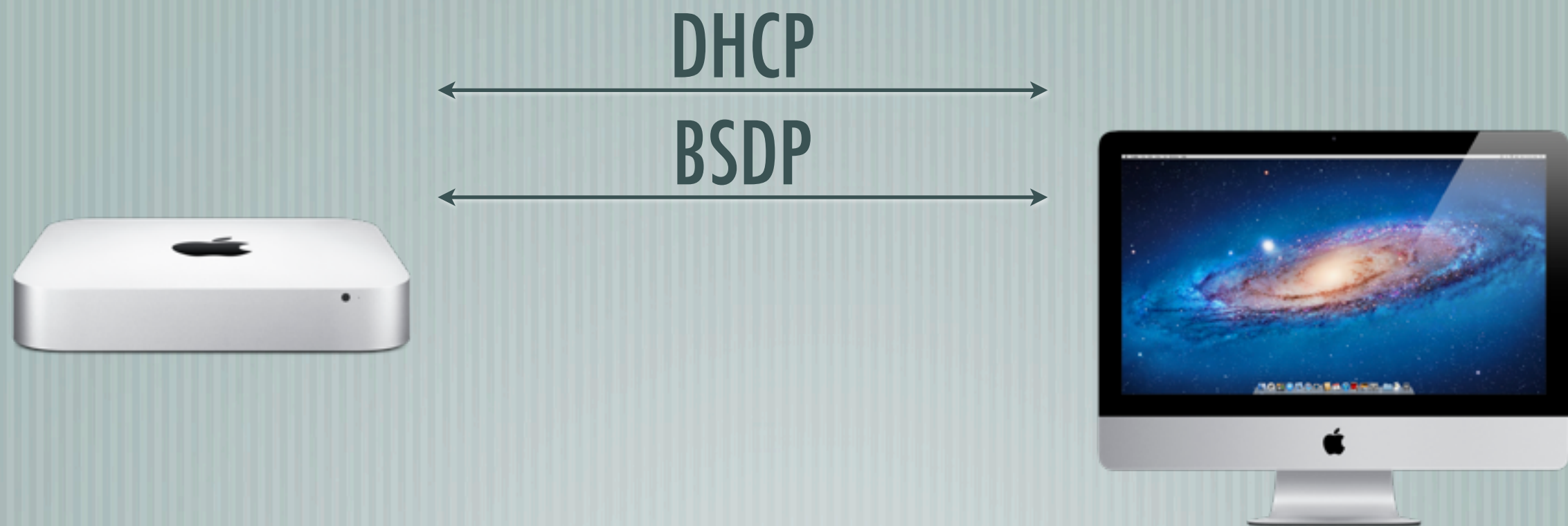
NetInstall



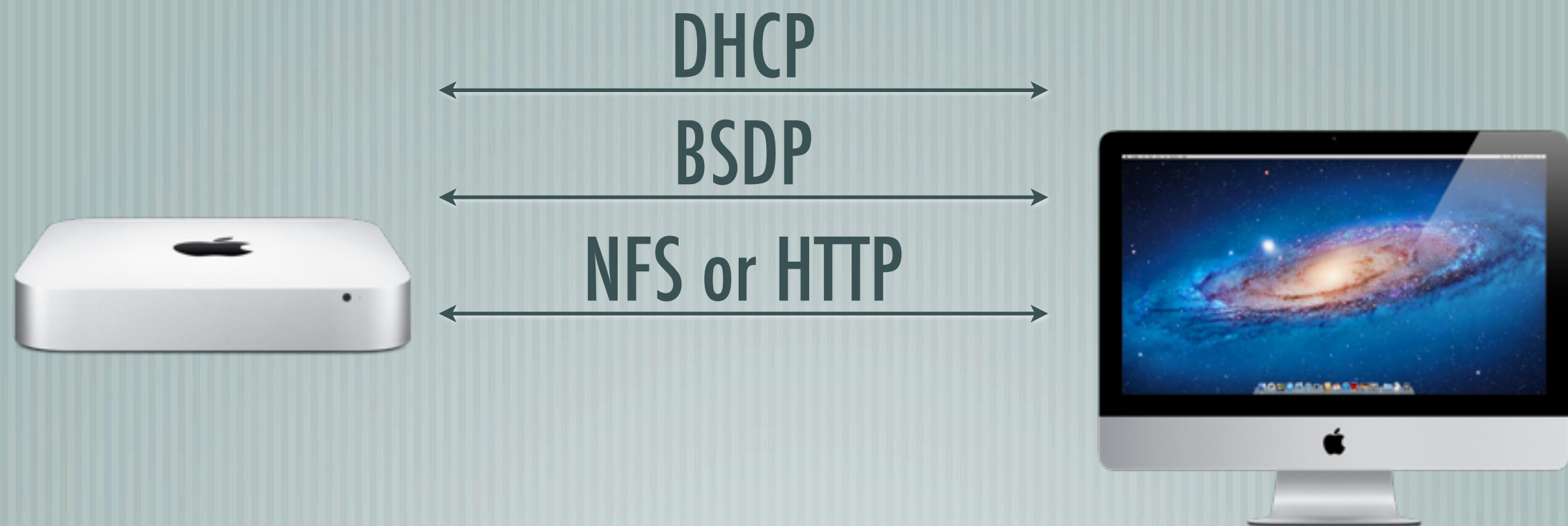
NetInstall



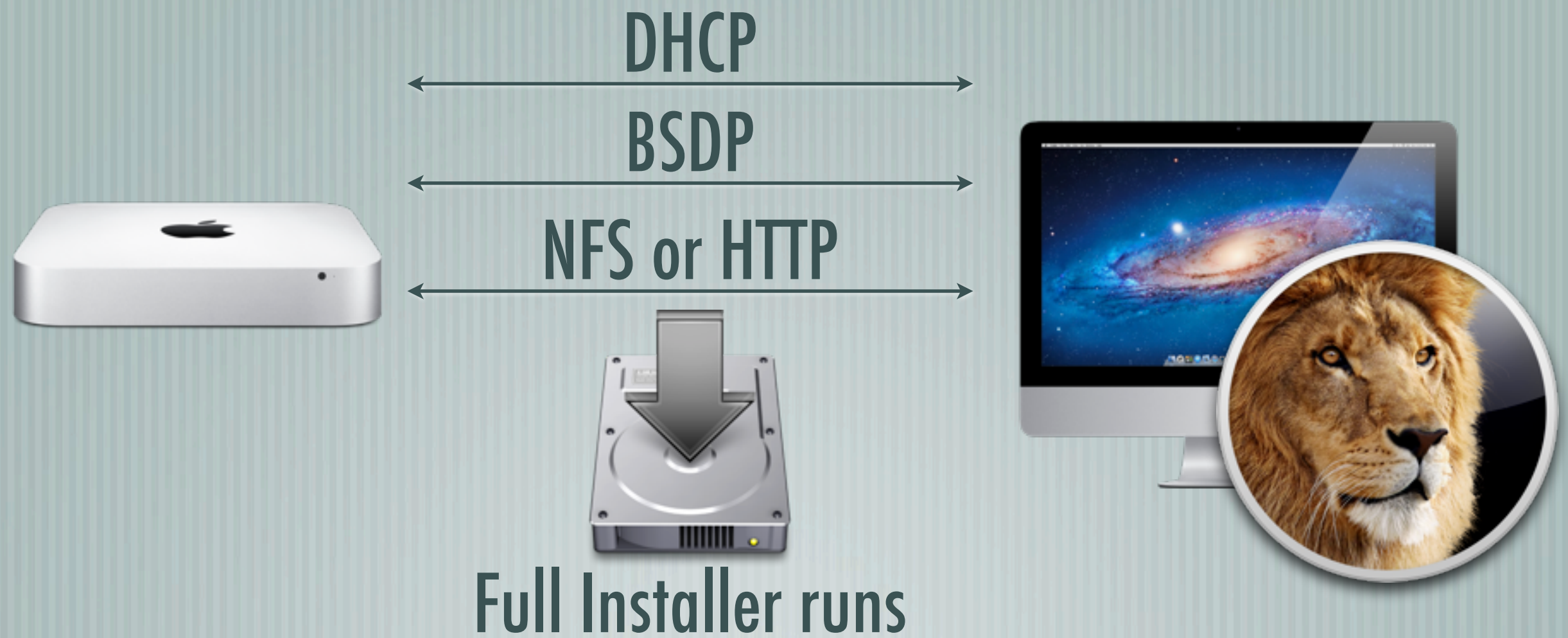
NetInstall



NetInstall



NetInstall

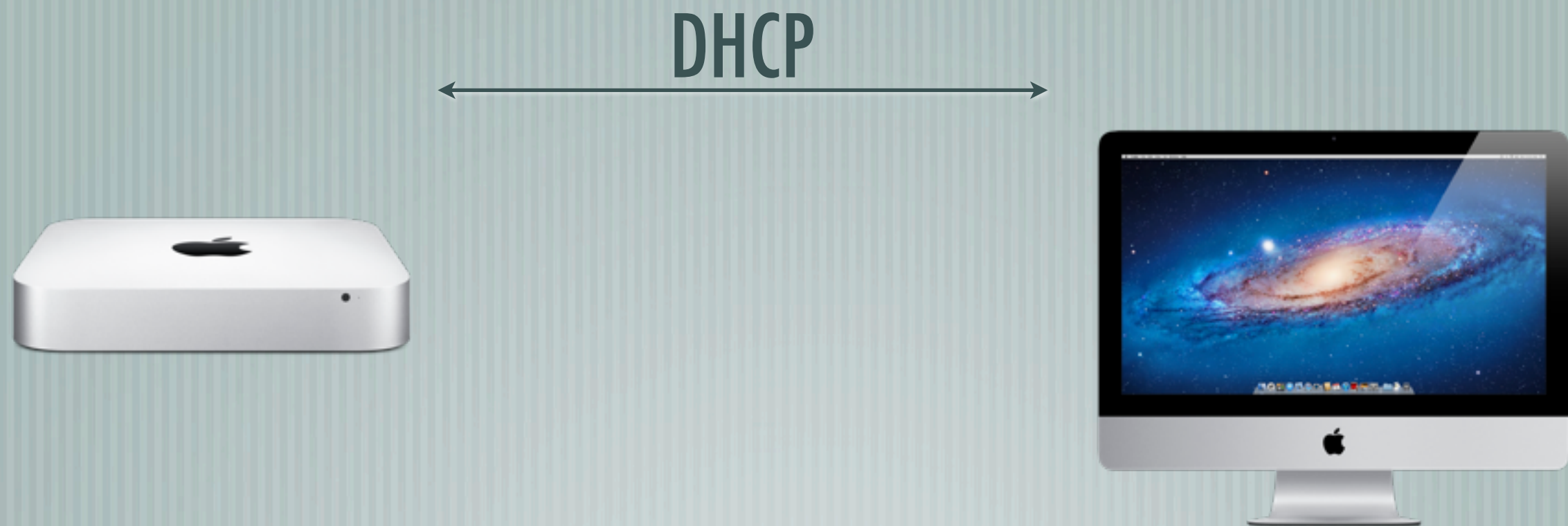


Note: Can create Recovery partition

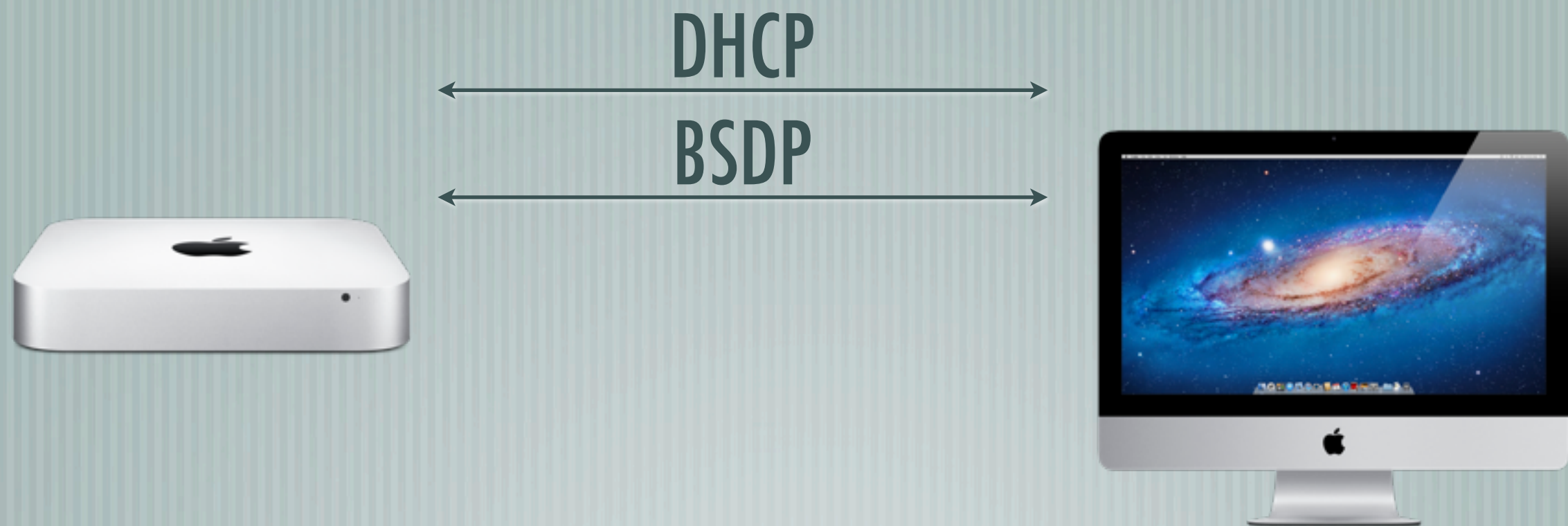
NetRestore



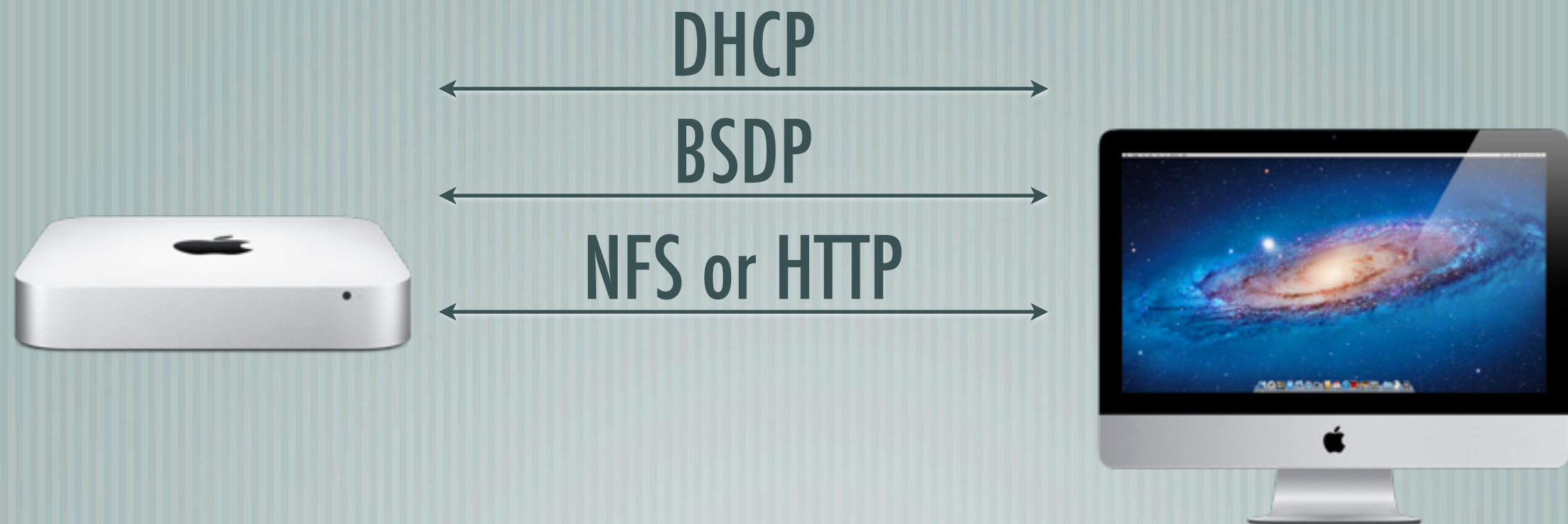
NetRestore



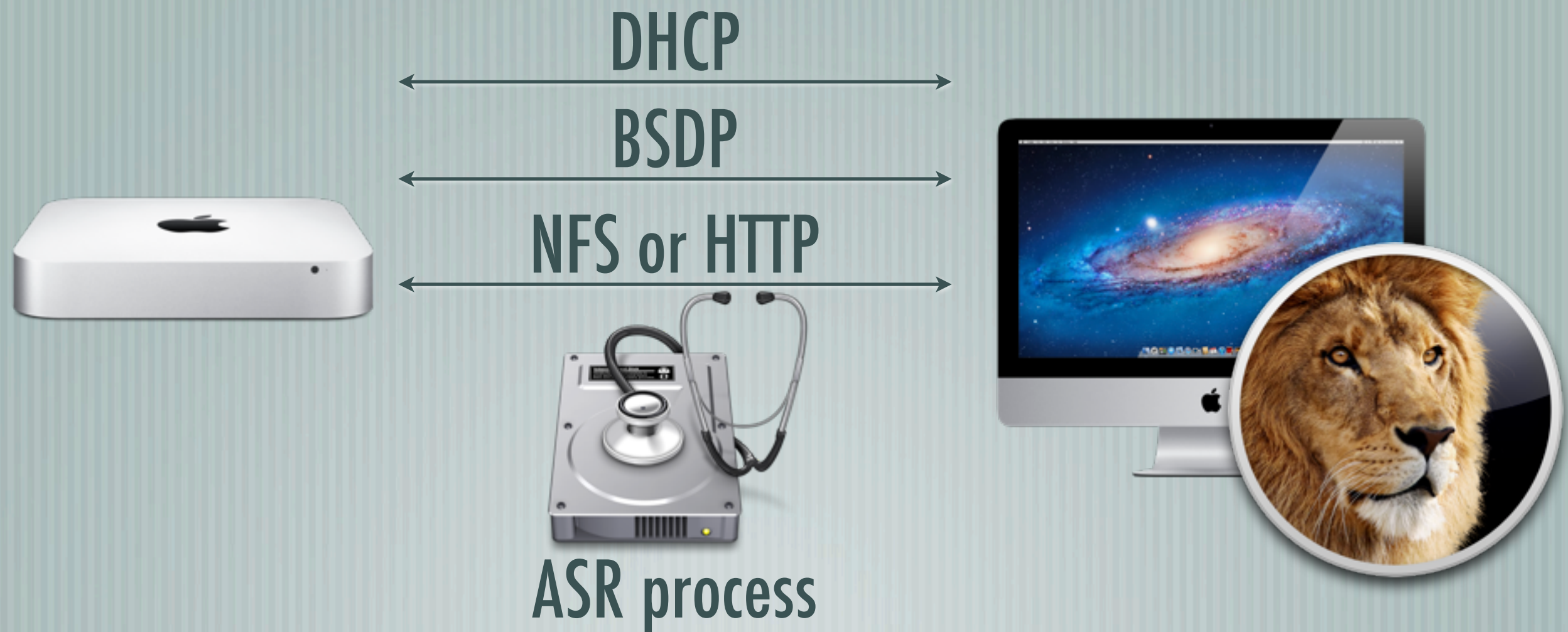
NetRestore



NetRestore



NetRestore



Note: Can create Recovery partition

Creating a Master Image

- [Use System Image Utility

- [Use DeployStudio

- [Be careful of imaging machines after first boot

- [Be aware of tasks that must be done post-boot

Image Sources

- [NetBoot: Fully configured Mac

- [NetInstall: InstallESD.dmg

- [NetRestore

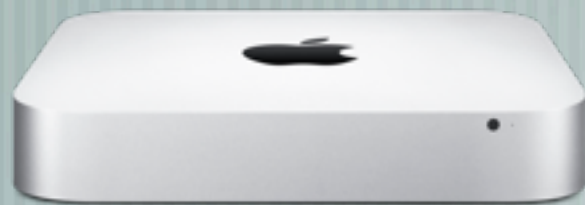
- Fully configured Mac

OR

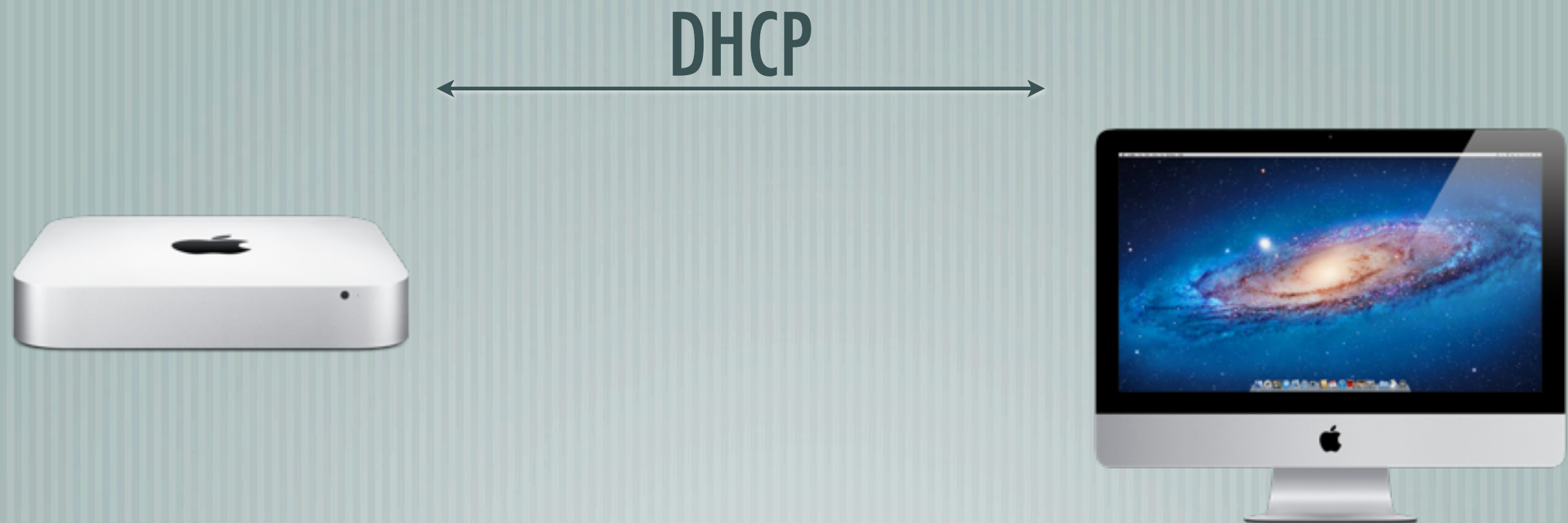
- Install to empty HD, don't allow first boot, reboot into target disk mode

Demo: System Image Utility

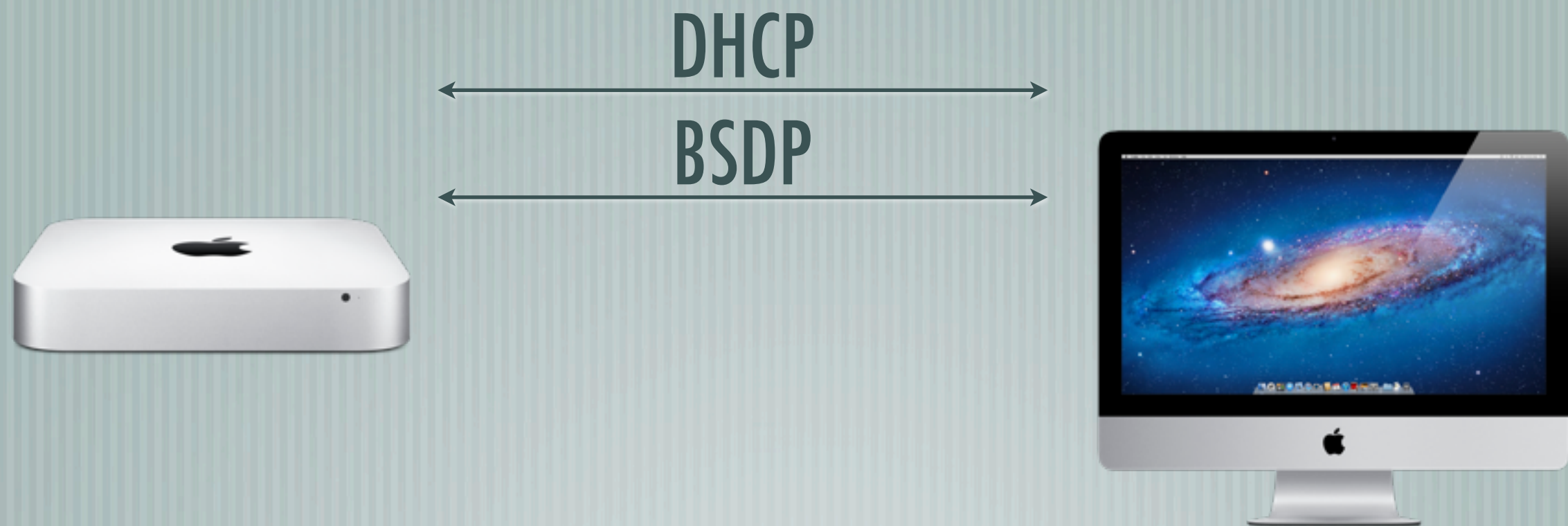
DeployStudio



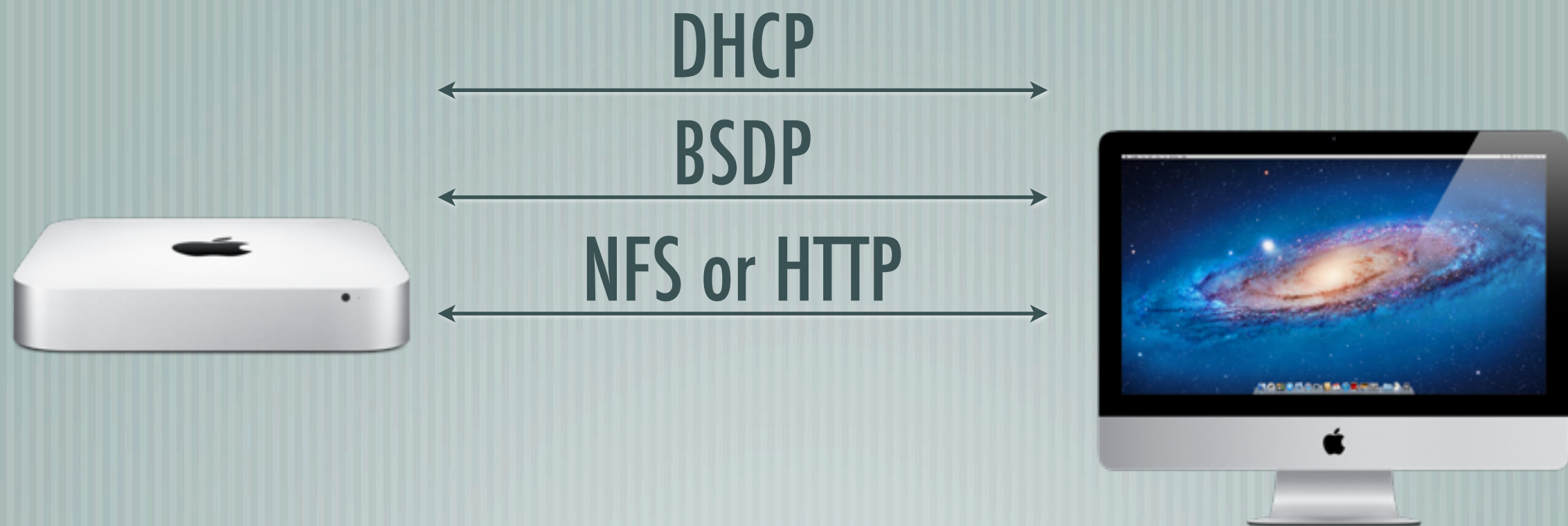
DeployStudio



DeployStudio



DeployStudio



DeployStudio



DeployStudio



DeployStudio



Network Requirements

- [Gigabit!

- Maybe even a separate switch

- [DHCP & BSDP

- [Spanning Tree & PortFast

Network Requirements

— [Firewall

— DHCP: 67 & 68

— BSDP: 67 & 68

— NFS: 111 & 2049

— AFP: 548

— HTTP: 80

Network Requirements

— [Firewall

— DHCP: 67 & 68

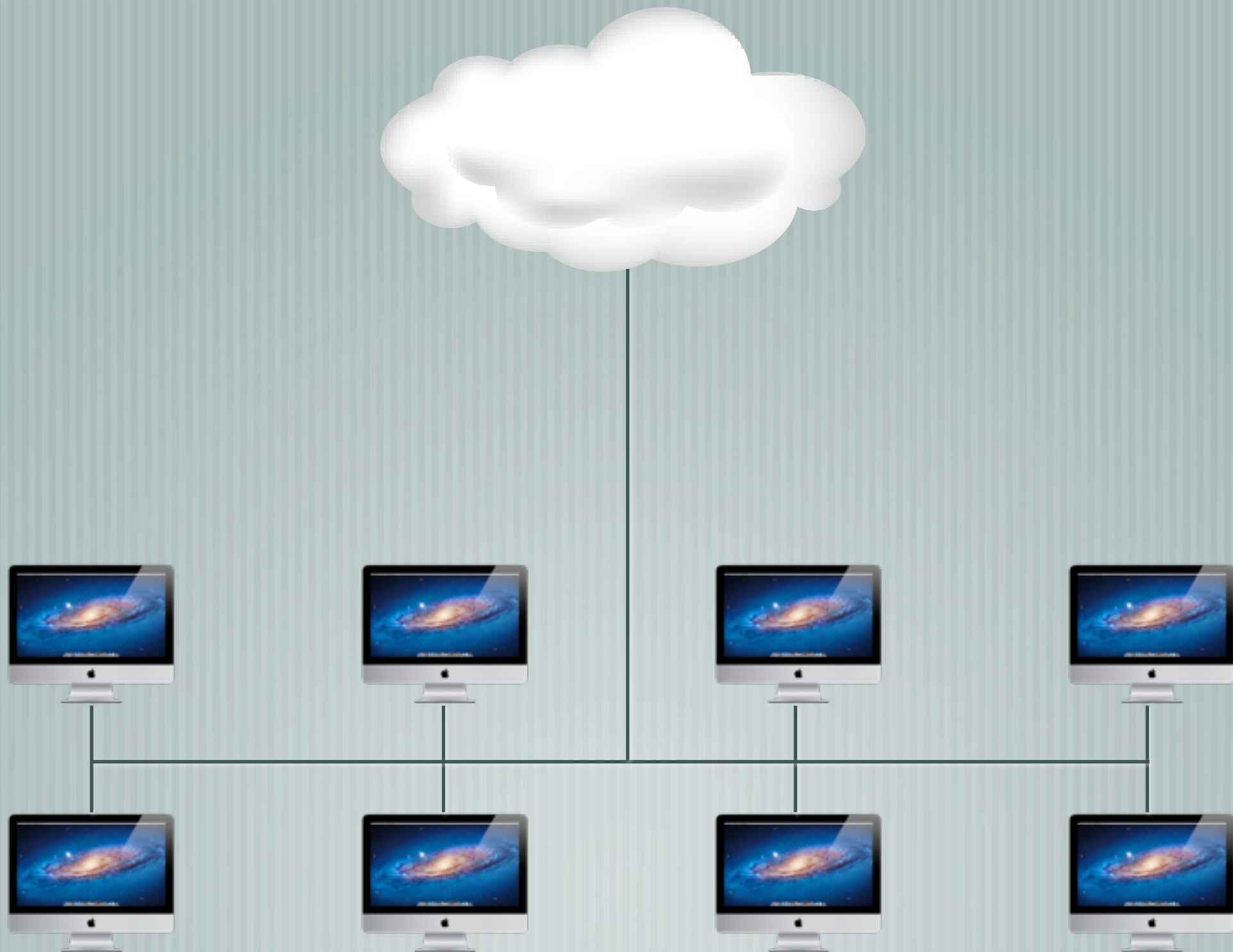
— BSDP: 67 & 68

— NFS: 111 & 2049

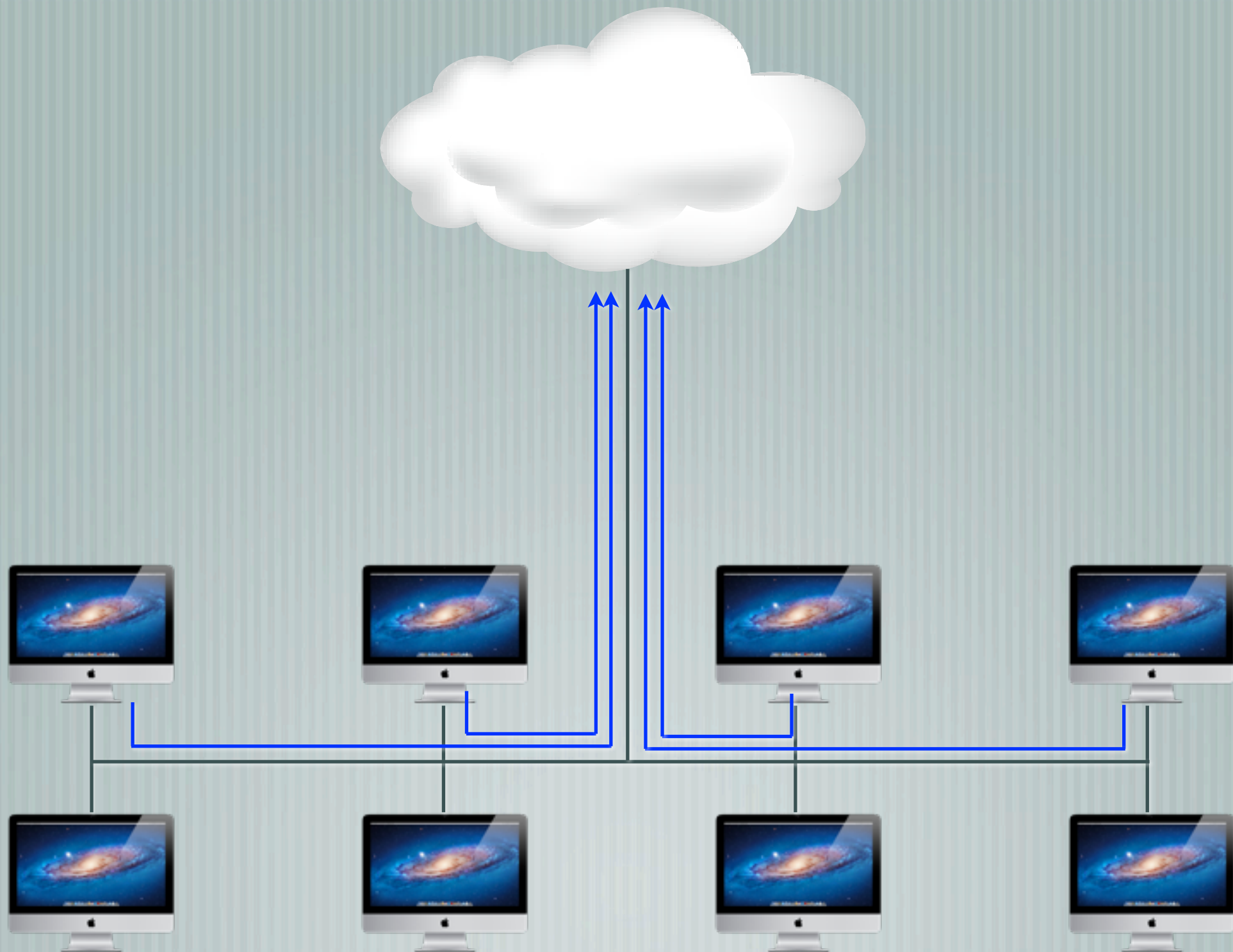
— AFP: 548

— HTTP: 80

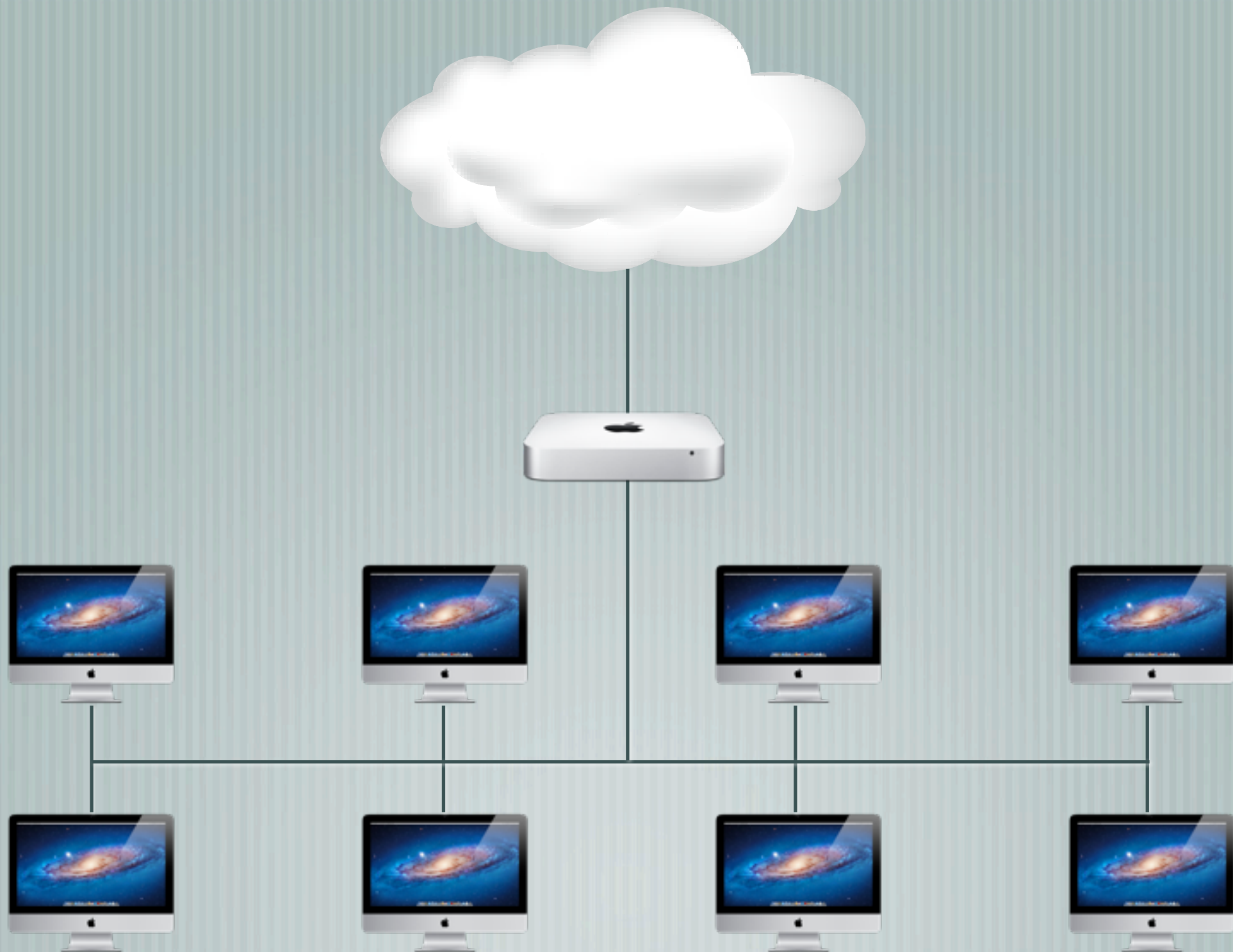
Software Update Server



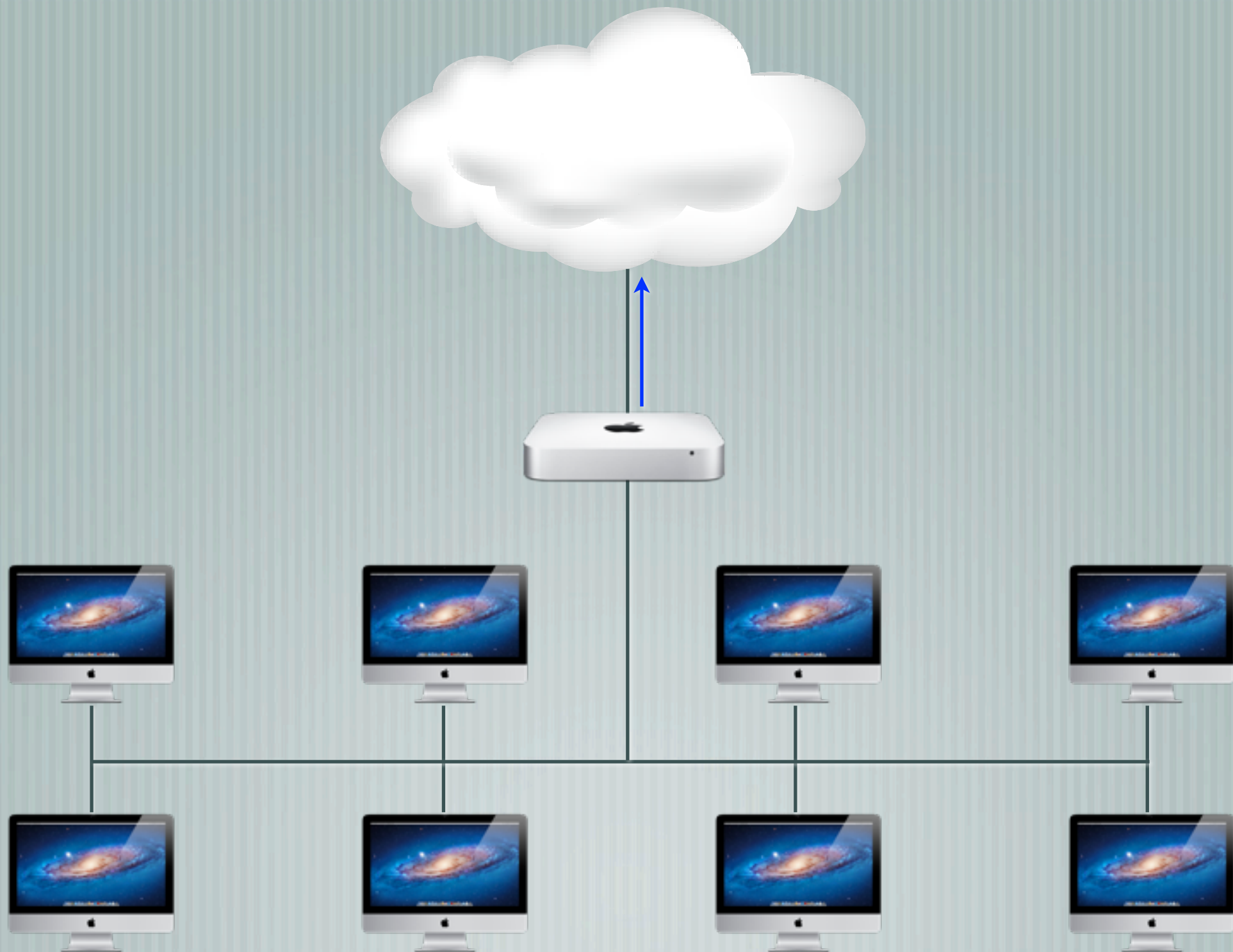
Software Update Server



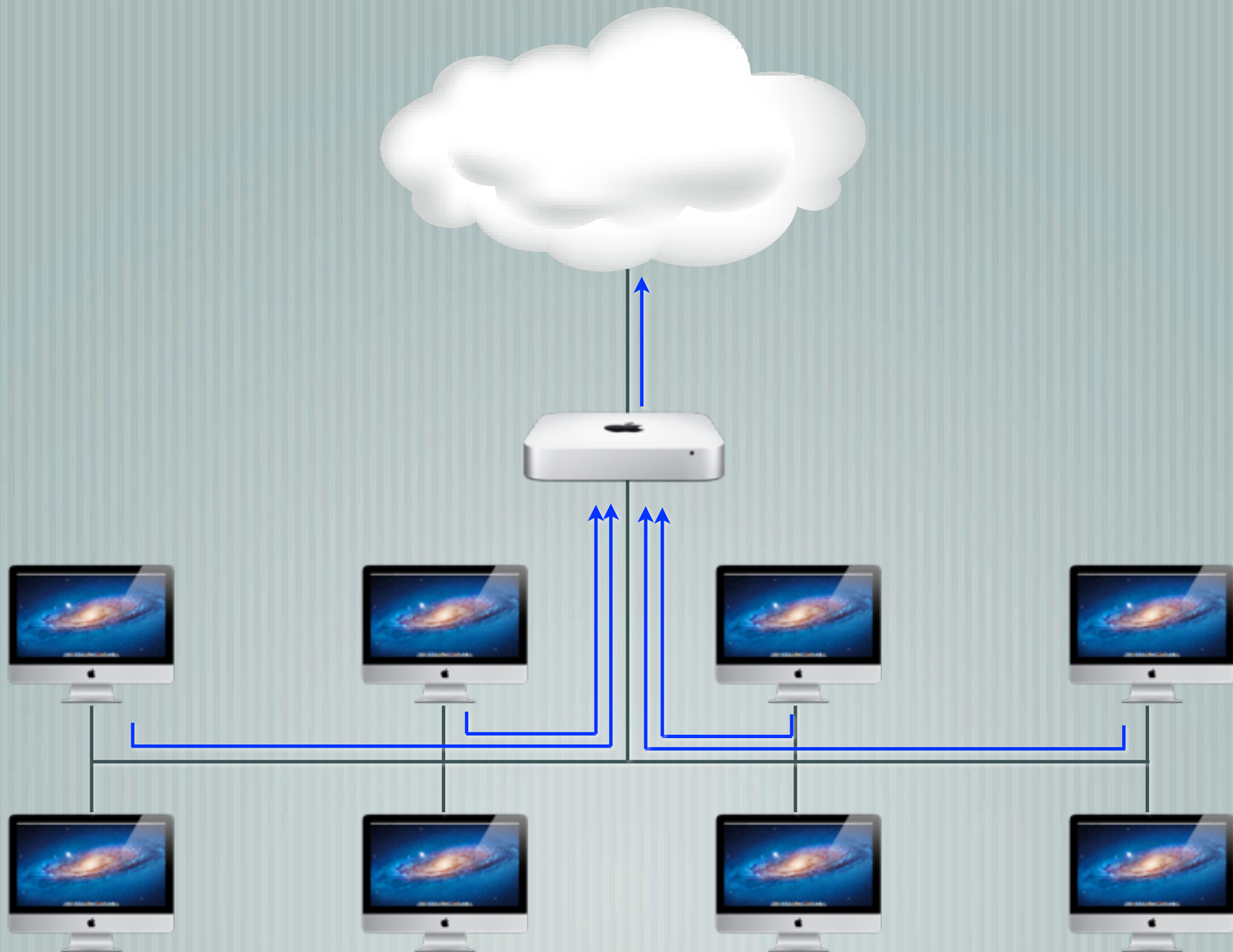
Software Update Server



Software Update Server



Software Update Server



Lion vs. Snow Leopard

- [Lion Server can serve updates for earlier systems

- [Snow Leopard Server can serve updates for Lion and earlier

- See <http://support.apple.com/kb/HT4771>

- [Recent update to update signing certificate

- See <http://support.apple.com/kb/HT5198>

Pointing clients to SUS

- [MCX

- [Software Update Enabler

- [DNS

- redirect swscan.apple.com

- Set SUS to port 80

Command Line Gems

— [Restoring an image

```
asr restore --source DiskImage.dmg --target \  
/Volume/VolName --erase --verbose
```

— [Setting the software update server on a client

```
defaults write \  
/Library/Preferences/com.apple.SoftwareUpdate \  
CatalogURL \  
http://swupd.example.com:8088/index.sucatalog
```

Command Line Gems

— [Running software update

```
softwareupdate --list
```

```
softwareupdate --install --all
```

Demo: Redirecting swscan.apple.com

Q & A