# Foreman Provisioning

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# What is Foreman?

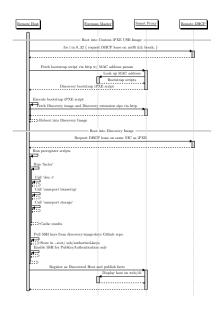
### Use Cases for Foreman

# Custom iPXE Image

#### Near vanilla iPXE image with the following embedded script:

```
#linxe
# Intermediate iPXE script to report MAC address to Foreman
:net0
isset ${net0/mac} || goto no_nic
dhcp net0 || goto net1
chain http://fm-test.chpc.utah.edu/unattended/iPXE?mac=${net0/mac} | goto net1
:net1
isset ${net1/mac} || goto no_nic
dhcp net1 || goto net2
chain http://fm-test.chpc.utah.edu/unattended/iPXE?mac=${net1/mac} || goto net2
· net33
goto no_nic
exit 0
: no_nic
echo Failed to chainload from any network interface
sleep 30
exit 1
```

### Foreman iPXE Workflow

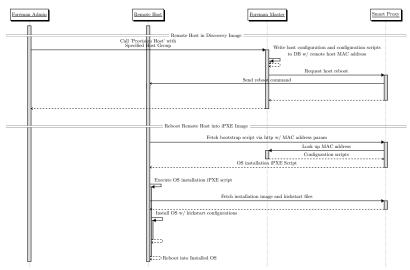


Boot into Custom iPXE Image can happen in two ways:

- USB boot with custom iPXE image.
- PXE boot into custom iPXE image (configure DHCP):

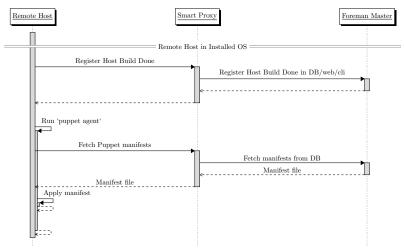
```
if exists user—tlass and option user—tlass = "IPXE" {
filename "http://fm=test.chpc.usth.edu/unattended/iPXE?bootstrap=1";
} elsif option architecture = 00:00 {
filename "ipxe.efi";
} elsif option architecture = 00:07 {
filename "ipxe.efi";
} elsif option architecture = 00:00 {
filename "ipxe.efi";
} elsif option architecture = 00:00 {
filename "ipxe.efi";
} else {
filename "undionly.0";
}
```

### Foreman Installation Workflow



Foreman supports kickstart files (RedHat), preseed files (Debian), etc.

# Foreman Configuration Workflow



Foreman comes with Puppet by default but can be configured with Ansible, SaltStack, etc.