

Conclusion

Site Specific setup for new machines

Hands-Off installation

New capabilities



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Auto-Install Advanced Features and Directions

Advanced Features

Generating profiles

Writing your own Installation Program

Directions

upgrade

new rules

disksize

installed

profile extensions

server & dataless

disk partitioning

locale

dry-run



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Auto-Install Example

```
mount -t hsfs -r /dev/sr0 /cdrom
cd /cdrom
./setup_install_server /export/install
```

```
cd /export/install
cp -r auto_install_sample /data/auto_inst
cd /data/auto_inst
```

edit rules and profiles

```
./check -p /export/install
```

```
export configuration directory
/data/auto_inst -ro,anon=0
```

```
cd /export/install
./add_install_client -c server:/data/install mach1 sun4c
```

rules

```
network 129.152.223.0 && model 'SUNW,Sun 4/50' - eng -
network 129.152.223.0 - mkting -
network 129.152.224.0 - eng -
```

eng

```
install_type initial_install
system_type standalone
partitioning default
cluster SUNWCprog
filesys any 50 /opt
```

mkting

```
install_type initial_install
system_type standalone
partitioning default
cluster SUNWCuser
cluster SUNWCown delete
```



Auto-Install on Existing Machines

Booting

```
boot net - install  
boot cdrom - install
```

re-preinstall

```
re-preinstall /dev/dsk/c0t3d0s0
```

/AUTOINSTALL



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Auto-Install Begin and Finish Scripts

Bourne Shell Scripts

pre- and post-installation tasks

filesystems mounted on /a

```
/a  
/a/usr
```

Example

```
#!/bin/sh  
cp ${SI_CONFIG_DIR}/license.dat /a/etc
```

Warnings

mount bug



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Auto-Install Class File

Installation commands

Syntax

key value(s)

Keys

install_type	initial_install
system_type	standalone
product	Solaris_2.1
partitioning	(default existing)
cluster	cluster_name [add delete]
package	package_name [add delete]
filesys	any size mntpnt

Example

install_type	initial_install
system_type	standalone
partitioning	default
cluster	SUNWCuser
filesys	any 40 swap



Auto-Install Rules File (cont.)

Begin, Class, Finish

Example Rules file

```
hostname mymachine - aaa -  
network 129.152.223.0 && karch sun4c - bbb -  
network 129.152.223.0 - ccc -  
any - - ddd -
```



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Auto-Install Rules File

Classify a machine for installation type

Syntax:

```
[!] match_key match_value [ && [!] match_key match_value ]* begin class finish
```

pattern match in order

Match Keys

<u>Key</u>	<u>definition</u>	<u>example value</u>
any	always match	-
arch	ISA	sparc
domainname	domain	rmtc.Central.Sun.COM
hostname	hostname	mymachine
karch	kernel architecture	sun4c
memsize	memory size range	16-64
model	machine model	'SUNW,Sun 4/50'
network	network number	129.152.223.0



Setting up Auto-Install

Configuration Directory

- auto_install_sample
- check script
- export directory
- floppy

Bootparams

- install_config keyword
- c option to add_install_client
- bootparam wildcard

rules

profile



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Factory Preinstalled Machines

Use auto-install

Find the media and reboot

Default auto-install profiles



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Installation Media (cont.)

5.x admintool

Host Manager: Add Host

Client Type:

Host Name: _____

IP Address: _____

Ethernet Address: _____

Timezone Region:

Timezone:

Remote Install:

Media Server:

OS Release:

Naming Service: None

Host Manager: Specify Device

Media Server: install-4

Media Path: /export/install

Device:

Naming Service: None



Installation Media

Network vs. CD-ROM

Install Servers and Boot Servers

New Script `setup_install_server`

```
setup_install_server /export/install
```

```
setup_install_server -b /export/install sun4m
```

4.x Server setup script `add_install_client`

```
./add_install_client client karch
```

```
-s flag - ./add_install_client -s server:/path client karch
```

```
-c flag - auto-install configuration setup
```



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Automatic System Configuration Procedures

Hostname, IP Address, Domainname

update ethers table - ethernet address
update hosts table - hostname and IP address
start rarpd
mkdir /ftplibboot
update bootparams table - hostname
start bootparamd

Name Service

NIS+
NIS
ask

Timezone

timezone table
timezone domainname
US/Mountain rmtc.Central.Sun.COM

timehost alias in hosts
129.152.223.12 rmtc loghost timehost



Automatic System Configuration

Available since 4.1.1 rev B

Set up manually or by `add_install_client` or `admintool` in Solaris 2.X

Configures:

- hostname
- IP address
- domainname
- name service
- netmask
- timezone
- time



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Introduction

Installation is consistently rated as one of the top ease-of-use problems

Pre-Installed Machines

pre-installed system inappropriate for most customers
inventory management problem for system vendors and VARs

Provide tools for the system administrator to automate installation

Automatic System Configuration
Auto-Install



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