

Solaris 11 Deployment – Willkommen in der Neuzeit

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Damit die beiden Demos aus der Präsentation nachvollzogen werden können, beschreibe ich in nachfolgendem Dokument Schritt für Schritt die Konfigurationen von Jumpstart beziehungsweise Automated Installer.

Tools, Wissenswertes:

- **VMWare Workstation 7.0.2 oder höher**
- **Je ein host-only-Netzwerk**
- **ACHTUNG: Default dhcp Service wird in diesem Script nicht deaktiviert!**

1. Demo Solaris 10 - Jumpstart

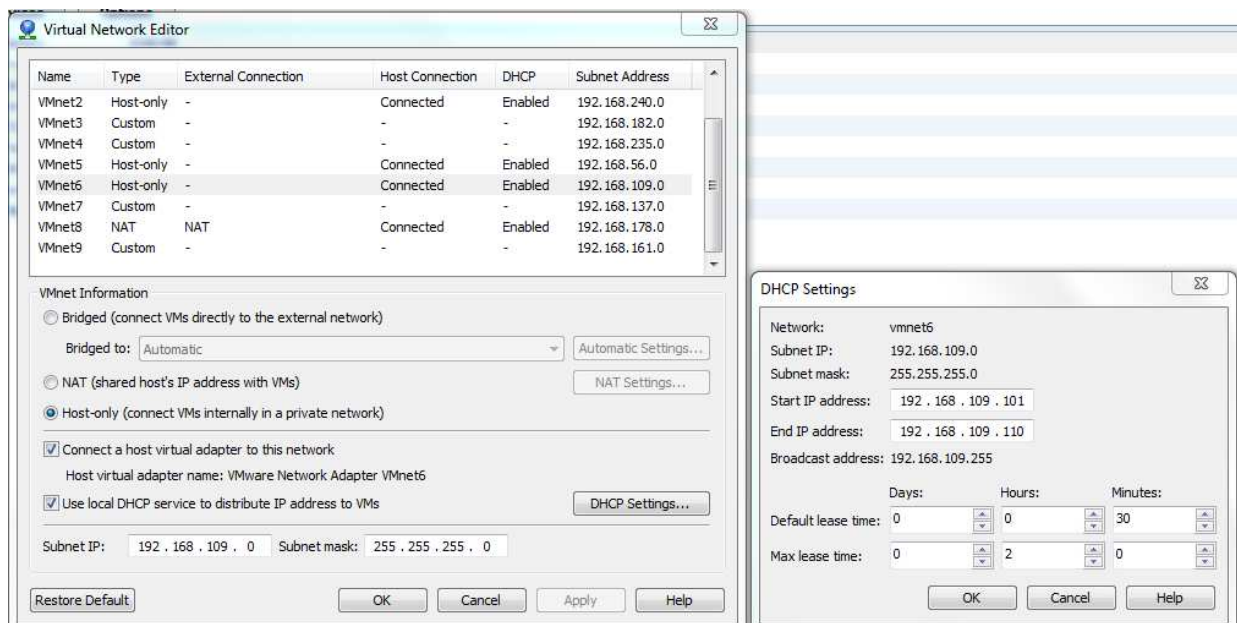


Abb. 1: Konfiguration des Host-only Netzwerkes



Solaris 10 - Server

State: Powered off
Guest OS: Solaris 10
Location: D:\90_VM\Solaris 10 - Server\Solaris 10 - Server.vmx
Version: Workstation 6.5-7.x virtual machine
Snapshot: Before DOAG

Commands	
	Power on this virtual machine
	Edit virtual machine settings
	Enable ACE features (What is ACE?)

Devices	
	Memory 2048 MB
	Processors 1
	Hard Disk (IDE) 10 GB
	Hard Disk 2 (IDE) 20 GB
	CD/DVD (IDE) Using file D:\99_TEMP\sol-10-u10-ga2-x86-dvd.iso
	Floppy Auto detect
	Network Adapter Custom (VMnet6)
	Sound Card Auto detect
	Display Auto detect

Abb. 2: Konfiguration der Server-VM

Solaris 10 - Client

State: Powered off
Guest OS: Solaris 10 64-bit
Location: D:\90_VM\Solaris 10 - Client\Solaris 10 - Client.vmx
Version: Workstation 6.5-7.x virtual machine
Snapshot: Before Demo

Commands	
	Power on this virtual machine
	Edit virtual machine settings
	Enable ACE features (What is ACE?)

Devices	
	Memory 2048 MB
	Processors 1
	Hard Disk (SCSI) 20 GB
	CD/DVD (IDE) Auto detect
	Floppy Auto detect
	Network Adapter Custom (VMnet6)
	Sound Card Auto detect
	Display Auto detect

Abb. 3: Konfiguration der Client-VM

MAC-Adresse des Clients:

00:0C:29:8B:C4:B6

Vorbereitende Tasks auf dem Server:

```
# pkgadd SUNWdhcsu  
# pkgadd SUNWdhcsr  
# pkgadd SUNWdhcsb  
# pkgadd SUNWdhcm  
# svcadm enable rarp  
# ./setup_install_server /export/install
```



NFS-Shares vorbereiten:

```
# echo "192.168.109.102 TVD-SOL-10-CLIENT" >> /etc/hosts
# echo "share -F nfs -o ro,anon=0 /export/install" >> /etc/dfs/dfstab
# echo "share -F nfs -o ro,anon=0 /export/config" >> /etc/dfs/dfstab
# svcadm enable nfs/server
# shareall
# share
-           /export/install   ro,anon=0   ""
-           /export/config   ro,anon=0   ""
```

Sysidcfg-File erstellen:

```
# vi /export/config/sysidcfg
system_locale=de_CH.UTF-8
install_locale=de_CH.UTF-8
timezone=Europe/Berlin
terminal=vt100
keyboard=Swiss-German
security_policy=none
root_password=Sk9z8uNVk0Cek
timeserver=localhost
name_service=none
network_interface=e1000g0 { hostname=TVD-SOL-10-CLIENT
                             ip_address=192.168.109.102
                             protocol_ipv6=no
                             netmask=255.255.255.0
                             default_route=192.168.109.1 }

nfs4_domain=dynamic
auto_reg=disable
```

Rules-File erstellen:

```
# vi /export/config/rules
hostname TVD-SOL-10-CLIENT begin_TVD-SOL-10-CLIENT profile_TVD-
SOL-10-CLIENT finish_TVD-SOL-10-CLIENT
```

Profile-File erstellen :

```
# vi /export/config/profile_TVD-SOL-10-CLIENT
install_type initial_install
system_type standalone
cluster SUNWCuser
fdisk all solaris all
root_device clt0d0s0
pool rpool auto auto auto rootdisk.s0
```

Begin- und Finish-Scripts erstellen:

```
# vi /export/config/begin_TVD-SOL-10-CLIENT
#!/bin/sh
echo "Begin Script for JumpStart TVD-SOL-10-CLIENT..."

# vi /export/config/finish_TVD-SOL-10-CLIENT
#!/bin/sh
echo "Finish Script for JumpStart TVD-SOL-10-CLIENT..."
```



Rechte anpassen:

```
# chmod 755 /export/config/*
```

Check durchführen:

```
# cp /export/install/Solaris_10/Misc/jumpstart_sample/check
/export/config
# cd /export/config
# ./check
    Validating rules...
    Validating profile profile_TVD-SOL-10-CLIENT...
    The custom JumpStart configuration is ok.
```

DHCP-Server konfigurieren:

```
# dhcpconfig -D -r SUNWfiles -p /var/dhcp
    Created DHCP configuration file.
    Created dhcptab.
    Added "Locale" macro to dhcptab.
    Added server macro to dhcptab - TVD-SOL-10-JUMPSTART.
    DHCP server started.

# dhcpconfig -N 192.168.109.0 -t 192.168.109.1
    Added network macro to dhcptab - 192.168.109.0.
    Created network table.

# pntadm -A 192.168.109.102 -c TVD-SOL-10-CLIENT -f DYNAMIC -m
192.168.109.0 -y -s 192.168.109.101 192.168.109.0
```

Client hinzufügen :

```
# cd /export/install/Solaris_10/Tools
# ./add_install_client -d -s 192.168.109.101:/export/install -c
192.168.109.101:/export/config -p 192.168.109.101:/export/config -e
00:0C:29:8B:C4:B6 i86pc
    enabling tftp in /etc/inetd.conf
    Converting /etc/inetd.conf
    enabling network/tftp/udp6 service
    copying boot file to /tftpboot/pxegrub.I86PC.Solaris_10-1
```

If not already configured, enable PXE boot by creating a macro named 01000C298BC4B6 with:

```
    Boot server IP (BootSrvA) : 192.168.109.101
    Boot file      (BootFile)  : 01000C298BC4B6
```

```
# dhtadm -A -m 01000C298BC4B6 -d
':BootFile=01000C298BC4B6:BootSrvA=192.168.109.101:'
# dhtadm -P
    Name                                Type                                Value
    =====
    01000C298BC4B6                      Macro
:BootFile=01000C298BC4B6:BootSrvA=192.168.109.101:
    192.168.109.0                      Macro
:Subnet=255.255.255.0:Router=192.168.109.1:Broadcst=192.168.109.255:
    TVD-SOL-10-JUMPSTART                Macro
:Include=Locale:Timeserv=192.168.109.101:LeaseTim=86400:LeaseNeg:
    Locale                              Macro                                :UTCoffst=3600:
```



```
# pntadm -L
    192.168.109.0

# pntadm -P 192.168.109.0
    Client ID      Flags    Client IP      Server IP      Lease
Expiration        Macro    Comment
    00            00      192.168.109.102 192.168.109.101 Zero
192.168.109.0    TVD-SOL-10-CLIENT
```

Abschliessende Tasks:

```
# vi /tftpboot/menu.lst.01000C298BC4B6
    default=0
    timeout=5
    min_mem64 1024
    title Installing Solaris 10 with Jumpstart at DOAG 11/12
        kernel$ /I86PC.Solaris_10-1/multiboot kernel/$ISADIR/unix -
install dhcp -B
install_config=192.168.109.101:/export/config,sysid_config=192.168.10
9.101:/export/config,install_media=192.168.109.101:/export/install,in
stall_boot=192
    .168.109.101:/export/install/boot
    module$ /I86PC.Solaris_10-1/$ISADIR/x86.miniroot
# svcadm restart dhcp-server
# svcs "*tftp*"
    STATE          STIME      FMRI
    online          9:55:10   svc:/network/tftp/udp6:default

# grep tftp /etc/vfstab
    /export/install/boot - /tftpboot/I86PC.Solaris_10-1 lofs - yes
ro

# svcs -p dhcp-server
    STATE          STIME      FMRI
    online          9:57:03   svc:/network/dhcp-server:default
                    9:57:03   1175 in.dhcpd
```



2. Demo Solaris 11 - Automated Installer

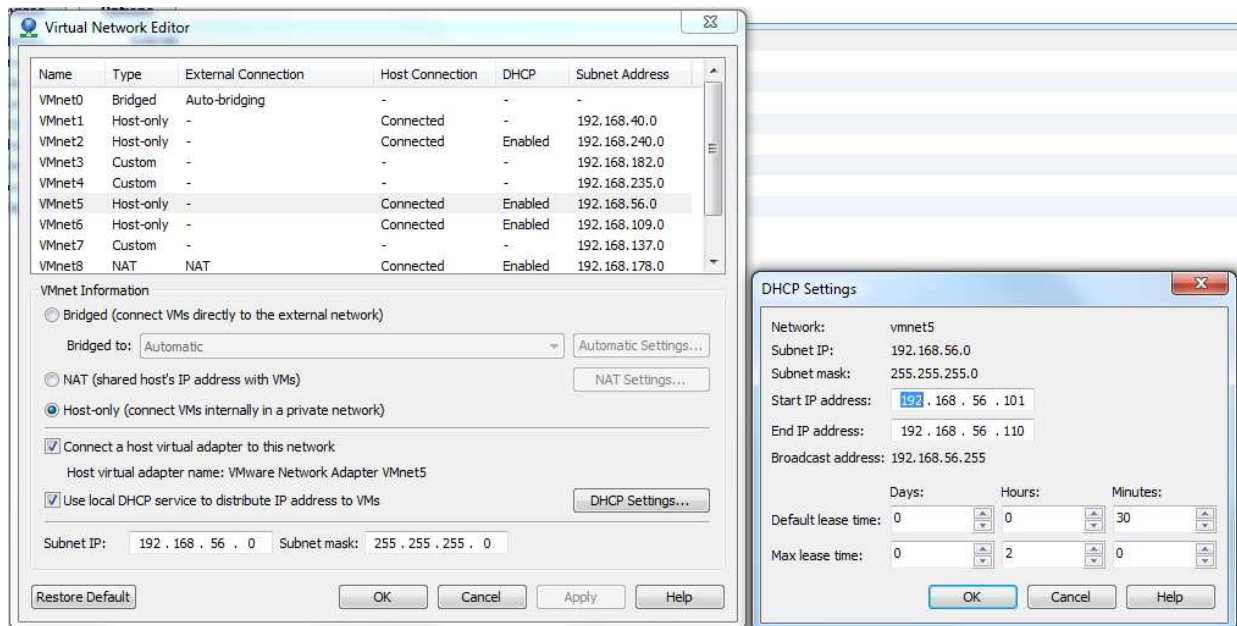


Abb. 4: Konfiguration des Host-only Netzwerkes

Solaris 11 - Server

State: Powered off
Guest OS: Solaris 10 64-bit
Location: D:\90_VM\Solaris 11 - Server\Solaris 11 - Server.vmx
Version: Workstation 6.5-7.x virtual machine
Snapshot: Before DOAG

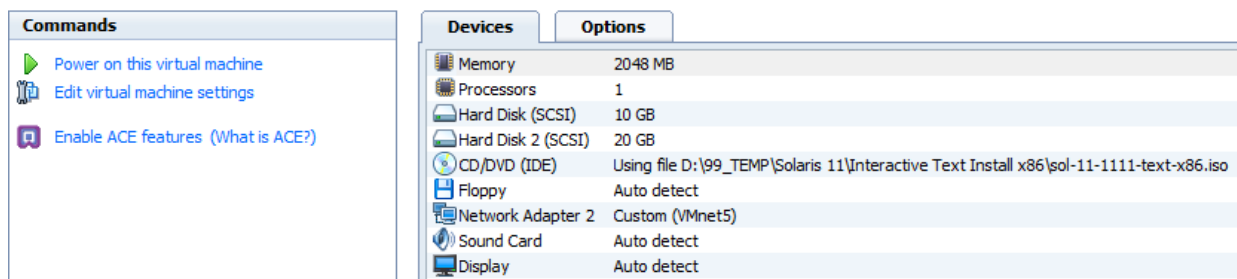


Abb. 5: Konfiguration der Server-VM



Solaris 11 - Client Demo

State: Powered off
Guest OS: Solaris 10 64-bit
Location: D:\90_VM\Solaris 11 - Client Demo\Solaris 11 - Client Demo.vmx
Version: Workstation 6.5-7.x virtual machine
Snapshot: Before Demo

Commands	Devices	Options
<ul style="list-style-type: none">▶ Power on this virtual machine🔧 Edit virtual machine settings🔒 Enable ACE features (What is ACE?)	<ul style="list-style-type: none">Memory 2048 MBProcessors 1Hard Disk (SCSI) 10 GBHard Disk 2 (SCSI) 20 GBCD/DVD (IDE) Auto detectFloppy Auto detectNetwork Adapter Custom (VMnet5)Sound Card Auto detectDisplay Auto detect	

Abb. 6: Konfiguration der Client-VM

MAC-Adresse des Clients:

00:0C:29:4A:89:2B

Vorbereitende Tasks auf dem Server:

```
# svcadm enable /network/dns/multicast
# svcadm enable /network/tftp/udp6
# svcadm enable /system/install/server
# installadm create-service -n sol1111x86 -s
/export/auto_install/sol-11-1111-ai-x86.iso -d
/export/auto_install/sol1111x86 -B 192.168.56.101 -i 192.168.56.101 -
c 9
# cd /export/repo
# cat sol-11-1111-repo-full.iso-a sol-11-1111-repo-full.iso-b > sol-
11-1111-repo-full.iso
# rm -f sol-11-1111-repo-full.iso-a
# rm -f sol-11-1111-repo-full.iso-b
# mount -F hsfs sol-11-1111-repo-full.iso /mnt
# rsync -aP /mnt/repo/ /export/repo/sol1111
# umount /mnt
# rm -f sol-11-1111-repo-full.iso
# pkgrepo -s /export/repo/sol1111 refresh
```

Repos erstellen:

```
# svccfg -s application/pkg/server setprop
pkg/inst_root=/export/repo/sol1111
# svccfg -s application/pkg/server setprop pkg/readonly=true
# svccfg -s application/pkg/server setprop pkg/port=9000
# svcadm refresh application/pkg/server
# svcadm enable application/pkg/server
+++ Now you can check the repo in the browser:
http://192.168.56.101:9000 +++
# pkgrepo create /export/repo/TVD
# pkgrepo set -s /export/repo/TVD publisher/prefix=TVD
```




```
# svccfg -s pkg/server add TVD
# svccfg -s pkg/server:TVD addpg pkg application
# svccfg -s pkg/server:TVD setprop pkg/port=10000
# svccfg -s pkg/server:TVD setprop pkg/inst_root=/export/repo/TVD/
# svccfg -s pkg/server:TVD setprop pkg/readonly=false
# svccfg -s pkg/server list
    :properties
    default
    TVD

# svccfg -s pkg/server:TVD addpg general framework
# svccfg -s pkg/server:TVD addpropvalue general/complete astring: TVD
# svccfg -s pkg/server:TVD addpropvalue general/enabled boolean: true
# svcadm refresh application/pkg/server:TVD
# svcadm enable application/pkg/server:TVD
# pkgrepo info -s /export/repo/TVD
    PUBLISHER PACKAGES STATUS          UPDATED
    TVD        0          online      2012-11-26T10:01:11.886203Z

# pkgrepo get -s /export/repo/TVD
    SECTION    PROPERTY VALUE
    publisher  prefix    TVD
    repository version  4

# pkgrepo -s /export/repo/TVD/ refresh
```

Client erstellen:

```
# installadm create-client -e 00:0C:29:4A:89:2B -n sol1111x86
```

Manifest-Files erstellen :

```
# installadm export -n sol1111x86 -m orig_default -o
/export/manifest/TVD-SOL-11-CLIENT.xml
# vi more /export/manifest/TVD-SOL-11-CLIENT.xml
<!DOCTYPE auto_install SYSTEM "file:///usr/share/install/ai.dtd.1">
<auto_install>
  <ai_instance auto_reboot="true" name="TVD-SOL-11-CLIENT">
    <target>
      <disk whole_disk="true" in_zpool="rpool">
        <disk_name name="c4t0d0" name_type="ctd"/>
      </disk>
      <disk whole_disk="true" in_zpool="zonepool">
        <disk_name name="c4t1d0" name_type="ctd"/>
      </disk>
      <logical>
        <zpool name="rpool" is_root="true">
          <filesystem name="export" mountpoint="/export"/>
          <filesystem name="export/home"/>
          <be name="solaris"/>
        </zpool>
        <zpool name="zonepool" is_root="false">
          <filesystem name="zones" mountpoint="/zones"/>
        </zpool>
      </logical>
    </target>
    <software type="IPS">
```



```
<destination>
  <image>
    <!-- Specify locales to install -->
    <facet set="false">facet.locale.*</facet>
    <facet set="true">facet.locale.de</facet>
    <facet set="true">facet.locale.de_DE</facet>
    <facet set="true">facet.locale.en</facet>
    <facet set="true">facet.locale.en_US</facet>
  </image>
</destination>
<source>
  <publisher name="solaris">
    <origin name="http://192.168.56.101:9000"/>
  </publisher>
<publisher name="TVD">
  <origin name="http://192.168.56.101:10000"/>
</publisher>
</source>
<!--
  By default the latest build available, in the specified IPS
  repository, is installed. If another build is required, the
  build number has to be appended to the 'entire' package in
the
  following form:

      <name>pkg:/entire@0.5.11-0.build#</name>
-->
<software_data action="install">
  <name>pkg:/entire@latest</name>
  <name>pkg:/group/system/solaris-small-server</name>
<name>pkg:/diagnostic/top</name>
  <name>pkg:/finish-script</name>
</software_data>
<software_data action="uninstall">
<name>pkg:/system/manual</name>
</software_data>

</software>

  <configuration type="zone" name="TVD-SOL-11-CLIENT-Z1"
source="http://192.168.56.101/zones/TVD-SOL-11-CLIENT-Z1.cfg"/>
  <configuration type="zone" name="TVD-SOL-11-CLIENT-Z2"
source="http://192.168.56.101/zones/TVD-SOL-11-CLIENT-Z2.cfg"/>

  </ai_instance>
</auto_install>

# installadm export -n sol1111x86 -m zone_default.xml -o
/export/manifest/TVD-SOL-11-CLIENT-Z1.xml
# installadm export -n sol1111x86 -m zone_default.xml -o
/export/manifest/TVD-SOL-11-CLIENT-Z2.xml

# vi more /export/manifest/TVD-SOL-11-CLIENT-Z1.xml
<?xml version="1.0" encoding="UTF-8"?>
<!--
```



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```
-->
<!DOCTYPE auto_install SYSTEM "file:///usr/share/install/ai.dtd.1">

<auto_install>
  <ai_instance name="TVD-SOL-11-CLIENT-Z1">
    <target>
      <logical>
        <zpool name="rpool">
          <filesystem name="export" mountpoint="/export"/>
          <filesystem name="export/home"/>
          <be name="solaris">
            <options>
              <option name="compression" value="on"/>
            </options>
          </be>
        </zpool>
      </logical>
    </target>

    <software type="IPS">
      <destination>
        <image>
          <!-- Specify locales to install -->
          <facet set="false">facet.locale.*</facet>
          <facet set="true">facet.locale.de</facet>
          <facet set="true">facet.locale.de_DE</facet>
          <facet set="true">facet.locale.en</facet>
          <facet set="true">facet.locale.en_US</facet>
        </image>
      </destination>
      <software_data action="install">
        <name>pkg:/group/system/solaris-small-server</name>
      <name>pkg:/system/manual</name>
        <name>pkg:/diagnostic/top</name>
      <name>pkg:/finish-script</name>
      </software_data>
    </software>
  </ai_instance>
</auto_install>

# vi more /export/manifest/TVD-SOL-11-CLIENT-Z2.xml
<?xml version="1.0" encoding="UTF-8"?>
<!--
```

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```
-->
<!DOCTYPE auto_install SYSTEM "file:///usr/share/install/ai.dtd.1">

<auto_install>
```



```
<ai_instance name="TVD-SOL-11-CLIENT-Z2">
  <target>
    <logical>
      <zpool name="rpool">
        <filesystem name="export" mountpoint="/export"/>
        <filesystem name="export/home"/>
        <be name="solaris">
          <options>
            <option name="compression" value="on"/>
          </options>
        </be>
      </zpool>
    </logical>
  </target>

  <software type="IPS">
    <destination>
      <image>
        <!-- Specify locales to install -->
        <facet set="false">facet.locale.*</facet>
        <facet set="true">facet.locale.de</facet>
        <facet set="true">facet.locale.de_DE</facet>
        <facet set="true">facet.locale.en</facet>
        <facet set="true">facet.locale.en_US</facet>
      </image>
    </destination>
    <software_data action="install">
      <name>pkg:/group/system/solaris-small-server</name>
      <name>pkg:/system/manual</name>
      <name>pkg:/diagnostic/top</name>
      <name>pkg:/finish-script</name>
    </software_data>
  </software>
</ai_instance>
</auto_install>
```



Zonen-Files erstellen :

```
# zonecfg -z TVD-SOL-11-CLIENT-Z1
# zonecfg:TVD-SOL-11-CLIENT-Z1> create
# zonecfg:TVD-SOL-11-CLIENT-Z1> set zonepath=/zones/TVD-SOL-11-
CLIENT-Z1
# zonecfg:TVD-SOL-11-CLIENT-Z1> set autoboot=true
# zonecfg:TVD-SOL-11-CLIENT-Z1> set ip-type=shared
# zonecfg:TVD-SOL-11-CLIENT-Z1> add net
# zonecfg:TVD-SOL-11-CLIENT-Z1:net> set physical=net0
# zonecfg:TVD-SOL-11-CLIENT-Z1:net> set address=192.168.56.103/24
# zonecfg:TVD-SOL-11-CLIENT-Z1:net> set defrouter=192.168.56.1
# zonecfg:TVD-SOL-11-CLIENT-Z1:net> end
# zonecfg:TVD-SOL-11-CLIENT-Z1> commit
# zonecfg:TVD-SOL-11-CLIENT-Z1> exit
# zonecfg -z TVD-SOL-11-CLIENT-Z1 export -f /export/zones/TVD-SOL-11-
CLIENT-Z1.cfg
# zonecfg -z TVD-SOL-11-CLIENT-Z1
# zonecfg:TVD-SOL-11-CLIENT-Z1> delete
    Are you sure you want to delete zone TVD-SOL-11-CLIENT-Z1
(y/[n])? y

# zonecfg:TVD-SOL-11-CLIENT-Z1> exit
# zonecfg -z TVD-SOL-11-CLIENT-Z2
# zonecfg:TVD-SOL-11-CLIENT-Z2> create
# zonecfg:TVD-SOL-11-CLIENT-Z2> set zonepath=/zones/TVD-SOL-11-
CLIENT-Z2
# zonecfg:TVD-SOL-11-CLIENT-Z2> set autoboot=true
# zonecfg:TVD-SOL-11-CLIENT-Z2> set ip-type=shared
# zonecfg:TVD-SOL-11-CLIENT-Z2> add net
# zonecfg:TVD-SOL-11-CLIENT-Z2:net> set physical=net0
# zonecfg:TVD-SOL-11-CLIENT-Z2:net> set address=192.168.56.104/24
# zonecfg:TVD-SOL-11-CLIENT-Z2:net> set defrouter=192.168.56.1
# zonecfg:TVD-SOL-11-CLIENT-Z2:net> end
# zonecfg:TVD-SOL-11-CLIENT-Z2> commit
# zonecfg:TVD-SOL-11-CLIENT-Z2> exit
# zonecfg -z TVD-SOL-11-CLIENT-Z2 export -f /export/zones/TVD-SOL-11-
CLIENT-Z2.cfg
# zonecfg -z TVD-SOL-11-CLIENT-Z2
# zonecfg:TVD-SOL-11-CLIENT-Z2> delete
    Are you sure you want to delete zone TVD-SOL-11-CLIENT-Z2
(y/[n])? y

# zonecfg:TVD-SOL-11-CLIENT-Z2> exit
```

Manifeste und Profiles erstellen :

```
# installadm create-manifest -n sol1111x86 -f /export/manifest/TVD-
SOL-11-CLIENT.xml -m TVD-SOL-11-CLIENT -c mac="00:0C:29:4A:89:2B"
# installadm create-manifest -n sol1111x86 -f /export/manifest/TVD-
SOL-11-CLIENT-Z1.xml -m TVD-SOL-11-CLIENT-Z1 -c zonename="TVD-SOL-11-
CLIENT-Z1"
# installadm create-manifest -n sol1111x86 -f /export/manifest/TVD-
SOL-11-CLIENT-Z1.xml -m TVD-SOL-11-CLIENT-Z2 -c zonename="TVD-SOL-11-
CLIENT-Z2"
# sysconfig create-profile -o /export/profiles/TVD-SOL-11-CLIENT.xml
```



```
# sysconfig create-profile -o /export/profiles/TVD-SOL-11-CLIENT-
Z1.xml
# sysconfig create-profile -o /export/profiles/TVD-SOL-11-CLIENT-
Z2.xml
# installadm create-profile -n sol1111x86 -f /export/profiles/TVD-
SOL-11-CLIENT.xml -p TVD-SOL-11-CLIENT -c mac="00:0C:29:4A:89:2B"
# installadm create-profile -n sol1111x86 -f /export/profiles/TVD-
SOL-11-CLIENT-Z1.xml -p TVD-SOL-11-CLIENT-Z1 -c zonename="TVD-SOL-11-
CLIENT-Z1"
# installadm create-profile -n sol1111x86 -f /export/profiles/TVD-
SOL-11-CLIENT-Z2.xml -p TVD-SOL-11-CLIENT-Z2 -c zonename="TVD-SOL-11-
CLIENT-Z2"
```

Zusammenfassung anzeigen :

```
# installadm list -n sol1111x86 -m -c -p
      Service Name Client Address      Arch  Image Path
      -----
      sol1111x86    00:0C:29:4A:89:2B  i386
/export/auto_install/sol1111x86
```

Manifest	Status	Criteria
TVD-SOL-11-CLIENT		mac = 00:0C:29:4A:89:2B
TVD-SOL-11-CLIENT-Z1		zonename = TVD-SOL-11-CLIENT-Z1
TVD-SOL-11-CLIENT-Z2		zonename = TVD-SOL-11-CLIENT-Z2
orig_default	Default	None

Profile	Criteria
TVD-SOL-11-CLIENT	mac = 00:0C:29:4A:89:2B
TVD-SOL-11-CLIENT-Z1	zonename = TVD-SOL-11-CLIENT-Z1
TVD-SOL-11-CLIENT-Z2	zonename = TVD-SOL-11-CLIENT-Z2



Finish-Script erstellen :

```
# mkdir /export/packages/finish-script > /dev/null 2>&1
# vi /export/packages/finish-script/finish-script-manifest.xml
<?xml version="1.0"?>
<!DOCTYPE service_bundle SYSTEM
"/usr/share/lib/xml/dtd/service_bundle.dtd.1">

<service_bundle type='manifest' name='Finish:finish-script'>

<service
  name='system/finish-script'
  type='service'
  version='1'>

  <create_default_instance enabled='true' />

  <single_instance />

  <dependency name='autofs' grouping='require_all'
restart_on='none' type='service'>
    <service_fmri
value='svc:/system/filesystem/autofs:default' />
  </dependency>

  <dependency name='multi-user' grouping='require_all'
restart_on='none' type='service'>
    <service_fmri value='svc:/milestone/multi-
user:default' />
  </dependency>

<exec_method
  type='method'
  name='start'
  exec='/usr/bin/finish-script.sh'
  timeout_seconds='0'>
</exec_method>

<exec_method
  type='method'
  name='stop'
  exec=':true'
  timeout_seconds='0'>
</exec_method>

  <property_group name='startd' type='framework'>
    <propval name='duration' type='astring'
value='transient' />
  </property_group>

</service>
</service_bundle>

# vi more /export/packages/finish-script/finish-script.sh
#!/bin/sh
svcadm disable sendmail > /dev/null 2>&1
```



```
svcadm disable sendmail-client > /dev/null 2>&1
echo "set -o vi" >> /etc/profile
ed - << EOF
r /etc/ssh/sshd_config
/PermitRootLogin/
c
PermitRootLogin yes
.
/X11Forwarding/
c
X11Forwarding yes
.
w
q
EOF
svcadm refresh ssh > /dev/null 2>&1
ed - << EOF
r /rpool/boot/grub/menu.lst
/timeout 30/
c
timeout 5
.
w
q
EOF
cd /boot/grub
mv splash.xpm.gz splash.xpm.gz_old
wget 192.168.56.101/splash.xpm.gz > /dev/null 2>&1
cd /rpool/boot/grub/
cp menu.lst save_menu.lst
echo "splashimage /boot/grub/splash.xpm.gz" > menu.lst
cat save_menu.lst >> menu.lst
echo "alias ll='ls -la'" >> /etc/profile
svcadm disable finish-script
at now + lmin <<< "pkg uninstall finish-script"
exit 0

# eval ``pkgsend -s http://192.168.56.101:10000/ open finish-
script@1.0\`
# pkgsend -s http://192.168.56.101:10000/ add file
/export/packages/finish-script/finish-script-manifest.xml mode=0555
owner=root group=bin path=/var/svc/manifest/system/finish-script-
manifest.xml restart_fmri=svc:/system/manifest-import:default
# pkgsend -s http://192.168.56.101:10000/ add file
/export/packages/finish-script/finish-script.sh mode=0555 owner=root
group=bin path=/usr/bin/finish-script.sh
# pkgsend -s http://192.168.56.101:10000/ close
PUBLISHED
pkg://TVD/finish-script@1.0,5.11:20121126T100337Z

# pkgrepo -s /export/repo/TVD refresh
# pkg rebuild-index
PHASE                                ITEMS
Indexing Packages                    461/461
```