Oracle Solaris 11 Puppet Cheat Sheet
Solaris Administration Resource Types

IPS Packaging Resource Types

boot_environment

Manage Oracle Solaris Boot Environents (BEs).

- activate – Activate the specified BE. Valid values are 'true', 'false'.
- clone_be – Create a new BE from an existing inactive BE
- description – Description for the new BE
- ensure – Whether the BE should exist. Valid values are 'present', 'absent'.
- name – The BE name. Defaults to title.
- options – Create the datasets for a new BE with specific ZFS properties. Specify options as a hash.
- zpool – Create the new BE in the specified zpool

package

Manage Oracle Solaris packages.

- ensure – What state the package should be in. Valid values are 'present' (also called 'installed'), 'absent', 'held', 'latest'.
- name – The package name. Defaults to title.

pkg_facet

Manage Oracle Solaris package facets.

- ensure – Whether the package facet should exist. Valid values are 'present', 'absent'.
- name – The facet name. Defaults to title.
- value – The value of the facet. Values can match 'true, 'false', 'none'.

pkg_variant

Manage Oracle Solaris package variants.

- ensure – Whether the package facet should exist. Valid values are 'present', 'absent'.
- name – The variant name. Defaults to title.
- value – The value of the variant.

pkg_publisher

Manage Oracle Solaris package publishers.

- enable – Enable the publisher. Valid values are 'true', 'false'.
- ensure – Whether the package media should exist. Valid values are 'present', 'absent'.
- name – The publisher name. Defaults to title.
- origin – Which origin (URI) to set. For multiple origins, specify them as a list.
- proxy – Use the specified web proxy URI to retrieve content for the specified origin or mirror.
- searchafter – Set the publisher after the specified publisher in the search order.
- searchbefore – Set the publisher before the specified publisher in the search order.
- searchfirst – Set the publisher first in the search order. Valid values are 'true'.
- sslcert – Specify the client SSL certificate.
- sslkey – Specify the client SSL key.
- sticky – Set the publisher as 'sticky'. Valid values are 'true', false'.

pkg_mediator

Manage Oracle Solaris package mediators.

- ensure – Whether the package media should exist. Valid values are 'present', 'absent'.
- implementation – The implementation of the mediated interface to use.
- name – The mediator name. Defaults to title.
- value – The value of the mediated interface to use.

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SMF Services Resource Types

service

Manage SMF services.

- enable – Whether the service should be enabled to start at boot. Valid values are 'true', 'false'
- ensure – What state the service should be in. Valid values are 'running, 'stopped'.
- name – The service name. Defaults to title.
- manifest – Specify a path to an SMF manifest that can be imported if the service doesn't already exist

svccfg

Manage SMF service properties.

- ensure – What state the package should be in. Valid values are 'present' (also called 'installed'), 'absent', 'held', 'latest'.
- fmri – SMF service FMRI to manipulate.
- name – The symbolic name for properties to manipulate. This name is used for human reference only.
- property – Name of property (includes SMF property group and property).
- type – Type of property
- value – Value of property

Zone Virtualization Resource Types

zone

Manage Oracle Solaris zones.

- archive – The archive file containing an archived zone.
- archived_zonename – The archived zone to configure and install.
- clone – Instead of installing the zone, clone it from another zone.
- config_profile – Path to the config_profile to use to configure a solaris zone. This is set when providing a sysconfig profile instead of running the sysconfig SCI tool on first boot of the zone.

- ensure – The running state of the zone. Valid values are 'absent', 'configured', 'installed', 'running'.
- install_args – Arguments to the 'zoneadm' install command. This can be used to create branded zones. name – The name of the zone.
- sysidcfg – The text to go into the 'sysidcfg' file when the zone is first booted (used in the creation of Oracle Solaris 10 zones).
- zonecfg_export – Contains the zone configuration information. This can be passed in the form of a file generated by the zonecfg command, in the form of a template, or a string.

ZFS Data Management Resource Types

zpool

Manage ZFS storage pools (zpools).

- disk – The disk(s) for this pool. Can be an array or a space separated string.
- ensure – The basic property that the resource should be in. Valid values are `present`, `absent`.
- log – Log disks for this pool. This type does not currently support mirroring of log disks.
- mirror – List of all the devices to mirror for this pool. Each mirror should be a space separated string. For example, mirror => ["disk1 disk2", "disk3 disk4"],
- pool – The name for this pool. Defaults to title.
- raid_parity – Determines parity when using the `raidz` parameter.
- raidz – List of all the devices to raid for this pool. Should be an array of space separated strings. For example, raidz => ["disk1 disk2", "disk3 disk4"],
- spare – Spare disk(s) for this pool.

`zfs`

Manage ZFS datasets.

- `aclinherit` – The aclinherit property. Valid values are 'discard', 'noallow', 'restricted', 'passthrough', 'passthrough-x'.
- `aclmode` – The aclmode property. Valid values are 'discard', 'groupmask', 'passthrough'.
- `atime` – The atime property. Valid values are 'on', 'off'.
- `canmount` – The canmount property. Valid values are 'on', 'off', 'noauto'.
- `checksum` – The checksum property. Valid values are 'on', 'off', 'fletcher2', 'fletcher4', 'sha256'.
- `compression` – The compression property. Valid values are 'on', 'off', 'lzjb', 'gzip', 'gzip-[1-9]', 'zle'.
- `copies` – The copies property. Valid values are '1', '2', '3'.
- `dedup` – The dedup property. Valid values are 'on', 'off'.
- `devices` – The devices property. Valid values are 'on', 'off'.
- `ensure` – The state of the ZFS dataset. Valid values are 'present', 'absent'.
- `exec` – The exec property. Valid values are 'on', 'off'.
- `logbias` – The logbias property. Valid values are 'latency', 'throughput'.
- `mountpoint` – The mountpoint property. Valid values are '<path>', 'legacy', 'none'.
- `name` – The full name for this filesystem (including the zpool).
- `nbmand` – The nbmand property. Valid values are 'on', 'off'.
- `primarycache` – The primarycache property. Valid values are 'all', 'none', 'metadata'.
- `quota` – The quota property. Valid values are '<size>', 'none'.
- `readonly` – The readonly property. Valid values are 'on', 'off'.
- `recordsize` – The recordsize property. Valid values are powers of two between 512 and 128k.
- `refquota` – The refquota property. Valid values are '<size>', 'none'.

- `refreservation` – The refreservation property. Valid values are '<size>', 'none'.
- `reservation` – The reservation property. Valid values are '<size>', 'none'.
- `secondarycache` – The secondarycache property. Valid values are 'all', 'none', 'metadata'.
- `setuid` – The setuid property. Valid values are 'on', 'off'.
- `shareiscsi` – The shareiscsi property. Valid values are 'on', 'off', 'type=<type>'.
- `sharenfs` – The sharenfs property. Valid values are 'on', 'off', `share(1M)` options.
- `sharesmb` – The sharesmb property. Valid values are 'on', 'off', `sharemgr(1M)` options.
- `snapdir` – The snapdir property. Valid values are 'hidden', 'visible'.
- `version` – The version property. Valid values are '1', '2', '3', '4', 'current'.
- `volsize` – The volsize property. Valid values are '<size>'
- `vscan` – The vscan property. Valid values are 'on', 'off'.
- `xattr` – The xattr property. Valid values are 'on', 'off'.
- `zoned` – The zoned property. Valid values are 'on', 'off'.

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Networking Resource Types

vnic

Manage the configuration of Oracle Solaris Virtual NICs (VNICs).

- ensure – What state the VNIC should be in. Valid values are 'present, 'absent'.
- lower_link – The name of the physical datalink over which the VNIC is operating.
- mac_address – Sets the VNIC's MAC address based on the specified value.
- name – The name of the VNIC. Defaults to title.
- temporary – Optional parameter that specifies that the VNIC is temporary and will last until the next reboot. Valid values are 'true', 'false'.

etherstub

Manage the configuration of Oracle Solaris etherstubs.

- ensure – What state the etherstub should be in. Valid values are 'present', 'absent'.
- name – The name of the etherstub. Defaults to title.
- Temporary – Optional parameter that specifies that the etherstub is temporary and will last until the next reboot. Valid values are 'true', 'false'.

link_properties

Manage Oracle Solaris link properties.

- ensure – What state the link should be in. Valid values are 'present', 'absent'.
- link – The name of the link.
- properties – A hash table of propname=propvalue entries to apply to the link.
- temporary – Optional parameter that specifies that the IP interface is temporary. Temporary interfaces last until the next reboot. Valid values are `true`, `false`.

ip_interface

Manage the configuration of Oracle Solaris IP interfaces.

- ensure – The state of the IP interface. Valid values are `present`, `absent`.
- name – The name of the IP interface.
- temporary – Optional parameter that specifies that the IP interface is temporary. Temporary interfaces last until the next reboot. Valid values are `true`, `false`.

address_object

Manage the configuration of Oracle Solaris address objects.

- address – A literal IP address or a hostname corresponding to the local end-point. An optional prefix length may be specified. Only valid with an address_type of 'static'.
- address_type – The type of address object to create. Valid values are 'static', 'dhcp', 'addrconf'.
- down – Specifies that the configured address should be marked down. Only valid with an address_type of 'static'. Valid values are 'true', 'false'.
- enable – Specifies the address object should be enabled or disabled. Valid values are 'true', 'false'.
- ensure - The basic property that the resource should be in. Valid values are 'present', 'absent'.
- hostname – Specifies the hostname to which the client would like the DHCP server to map the client's leased IPv4 address. Only valid with an address_type of 'dhcp'.
- interface_id – Specifies the local interface ID to be used for generating auto-configured addresses. Only valid with an address_type of 'addrconf'.
- remote_address – A literal IP address or a hostname corresponding to an optional remote end-point. An optional prefix length may be specified. Only valid with an address_type of 'static'.
- remote_interface_id – Specifies an optional remote interface ID to be used for generating auto-configured addresses. Only valid with an address_type of 'addrconf'.
- seconds – Specifies the amount of time in seconds to wait until the operation completes. Only valid with an address_type of 'dhcp'. Valid values are a numerical value in seconds or 'forever'.
- stateful – Specifies if stateful auto-configuration should be enabled or not. Valid values are 'yes', 'no'.
- stateless – Specifies if stateless auto-configuration should be enabled or not. Valid values are 'yes', 'no'.
- temporary – Optional parameter that specifies that the address object is temporary. Temporary aggregation links last until the next reboot. Valid values are `true`, `false`..

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`interface_properties`

Manage Oracle Solaris interface properties.

- `ensure` – Valid values are 'present'.
- `interface` – The name of the interface. Defaults to title.
- `properties` – A hash table of propname=propvalue entries to apply to an interface.
- `temporary` – Optional parameter that specifies changes to the interface are temporary. Changes last until the next reboot. Valid values are 'true', 'false'.

`address_properties`

Manage Oracle Solaris address object properties.

- `address` – The name of the address object. Defaults to title.
- `ensure` – Valid values are 'present'.
- `properties` – A hash table of propname=propvalue entries to apply to an address object.
- `temporary` – Optional parameter that specifies changes to the address object are temporary. Changes last until the next reboot. Valid values are 'true', 'false'.

`protocol_properties`

Manage Oracle Solaris protocol properties.

- `ensure` – What state the etherstub should be in. Valid values are 'present', 'absent'.
- `properties` – A hash table of propname=propvalue entries to apply to a protocol.
- `protocol` – The name of the protocol. Defaults to title.
- Temporary – Optional parameter that specifies changes to the protocol are temporary. Changes last until the next reboot. Valid values are 'true', 'false'.

`link_aggregation`

Manage the configuration of Oracle Solaris link aggregations.

- `address` – Specifies a fixed unicast hardware address to be used for the aggregation.
- `ensure` - The basic property that the resource should be in. Valid values are 'present', 'absent'.
- `lacmode` – Specifies whether LACP should be used and, if used, the mode in which it should operate. Valid values are 'off', 'active', 'passive'.
- `lacptimer` – Specifies the LACP timer value. Valid values are 'short', 'long'.
- `lower_links` – Specifies an array of links over which the aggregation is created.
- `mode` – Specifies which mode to set. Valid values are 'trunk', 'dlmp'.
- `name` – The name of the link aggregation
- `policy` – Specifies the port selection policy to use for load spreading of outbound traffic
- `temporary` – Optional parameter that specifies that the aggregation is temporary. Temporary aggregation links last until the next reboot. Valid values are 'true', 'false'.

`ipmp_interface`

Manage the configuration of Oracle Solaris IPMP interfaces.

- `ensure` - The basic property that the resource should be in. Valid values are 'present', 'absent'.
- `interface` – An array of interface names to use for the IPMP interface.
- `name` – The name of the interface.
- `temporary` – Optional parameter that specifies that the IPMP interface is temporary. Temporary interfaces last until the next reboot. Valid values are `true`, `false`.

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ip_tunnel

Manage Oracle Solaris IP Tunnel links.

- `Ensure` – The basic property that the resource should be in. Valid values are 'present', 'absent'.
- `local_address` – IP address or hostname corresponding to the local tunnel address.
- `name` – The name of the IP Tunnel link.
- `remote_address` – IP address or hostname corresponding to the remote tunnel address.
- `temporary` – Optional parameter that specifies that the IP tunnel is temporary. Temporary IP tunnels last until the next reboot. Valid values are 'true', 'false'.
- `tunnel_type` – Specifies the type of tunnel to be created. Valid values are 'ipv4', 'ipv6', '6to4'.

`vni_interface`

Manage the configuration of Oracle Solaris VNI interfaces.

- `ensure` – The basic state that the resource should be in. Valid values are 'present', 'absent'.
- `name` – The name of the VNI interface.
- `temporary` – Optional parameter that specifies changes to the VNI interface are temporary. Changes last until the next reboot. Valid values are 'true', 'false'.

`solaris_vlan`

Manage the configuration Oracle Solaris VLAN links.

- `ensure` – The basic state that the resource should be in. Valid values are 'present', 'absent'.
- `force` – Optional parameter to force the creation of the VLAN link. Valid values are 'true', 'false'.
- `lower_link` – Specifies the Ethernet link over which the VLAN is created.
- name – The VLAN name.
- temporary – Optional parameter that specifies changes to the VLAN is temporary. Changes last until the next reboot. Valid values are 'true', 'false'.
- `vlanid` – VLAN link ID.

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Naming Service Resource Types

dns

Manage the configuration of the DNS client for Oracle Solaris.

- domain – The local domain name.
- name – The symbolic name for the DNS client settings to use. This name is used for human reference only.
- nameserver – The IP address(es) the resolver is to query. A maximum of 3 IP addresses may be specified. Specify multiple IP addresses as an array.
- options – Set internal resolver variables. Valid values are 'debug', 'ndots:n', 'timeout:n', 'retrans:n', 'attempts:n', 'retry:n', 'rotate', 'no-check-names', 'inet6'. For values with 'n', specify 'n' as an integer. Specify multiple options as an array.
- search – The search list for host name lookup. A maximum of 6 search entries may be specified. Specify multiple search entries as an array.
- sortlist – Addresses returned by gethostbyname() to be sorted. Entries must be specified in IP 'slash notation'. A maximum of 10 sortlist entries may be specified. Specify multiple entries as an array.

nis

Manage the configuration of the NIS client for Oracle Solaris.

- Name – The symbolic name for the NIS domain and client settings to use. This name is used for human reference only.
- Securenets – Entries for /var/yp/securenets. Each entry must be a hash. The first element in the hash is either a host or a netmask. The second element must be an IP network address. Specify multiple entires as separate entries in the hash.
- use_broadcast – Send a broadcast datagram requesting needed bind information for a specific NIS server. Valid vales are 'true', 'false'.
- use_ypsetme – Only allow root on the client to change the binding to a desired server. Valid values are 'true', 'false'.
- ypservers – The hosts or IP addresses to use as NIS servers. Specify multiple entries as an array.

nsswitch

Name service switch configuration for Oracle Solaris.

- Alias – The alias database lookup override.
- auth_attr – The auth_attr database lookup override.
- automount – The automount database lookup override.
- bootparam – The bootparam database lookup override.
- default – The default configuration entry.
- ether – The ether database lookup override.
- group – The group database lookup override.
- host – The host database lookup override.
- name – The symbolic name for the nsswitch settings to use. This name is used for human reference only.
- Netgroup – The netgroup database lookup override.
- Netmask – The netmask database lookup override.
- Network – The network database lookup override.
- Password – The password database lookup override.
- prof_attr – The prof_attr database lookup override.
- project – The project database lookup override.
- publickey – The publickey database lookup override.
- rpc – The rpc database lookup override.
- service – The service database lookup override.
- sudoer – The sudoer database lookup override. Used with sudo only.
- tnrhdb – The tnrhdb database lookup override. Requires trusted extensions.
- tnrhtp – The tnrhtp database lookup override. Requires trusted extensions.

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ldap

Manage the configuration of the LDAP client for Oracle Solaris.

- `admin_bind_dn` – The Bind Distinguised Name for the administrator identity that is used for shadow information update.
- `admin_bind_passwd` – The administrator password.
- `attribute_map` – A mapping from an attribute defined by a service to an attribute in an alternative schema. Specify multiple mappings as an array.
- `authentication_method` – The default authentication method(s). Specify multiple methods as an array. Valid values are 'none', 'simple', 'sasl/CRAM-MD5', 'sasl/DIGEST-MD5', 'sasl/GSSAPI', 'tls:simple', 'tls:sasl/CRAM-MD5', 'tls:sasl/DIGEST-MD5'.
- `bind_dn` – An entry that has read permission for the requested database. Specify multiple entries as an array.
- `bind_passwd` – The password to be used for authenticating the bind DN.
- `bind_time_limit` – The maximum number of seconds a client should spend performing a bind operation.
- `credential_level` – The credential level the client should use to contact the directory. Valid values are 'anonymous', 'proxy', 'self'.
- `enable_shadow_update` – Specify whether the client is allowed to update shadow information. Valid values are 'true', 'false'.
- `follow_referrals` – The referral setting. Valid values are 'true', 'false'.
- `host_certpath` – The location of the certificate files.
- `name` – The symbolic name for the LDAP client settings to use. This name is used for human reference only.
- `objectclass_map` – A mapping from an objectclass defined by a service to an objectclass in an alternative schema. Specify multiple mappings as an array.
- `preferred_server_list` – LDAP server(s) to contact before any servers listed in default_server_list.
- `profile` – The LDAP profile name.
- `profile_ttl` – The TTL value in seconds for the client information.

- `search_base` – The default search base DN.
- `search_scope` – The default search scope for the client's search operations. Valid values are 'base', 'one', 'sub'.
- `search_time_limit` – The maximum number of seconds allowed for an LDAP search operation.
- `server_list` – LDAP server names or addresses. Specify multiple servers as an array.
- `service_authentication_method` – The authentication method to be used by a service. Specify multiple methods as an array.
  `service_credential_level` – The credential level to be used by a service. Value values are 'anonymous', 'proxy'.

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Contact Us

For more information about Oracle Solaris 11, visit oracle.com/solaris or call +1.800.ORACLE1 to speak to an Oracle representative. Last updated: May 27, 2014.

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