

manage-vlan

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MANAGE-VLAN(1)           AppNexus CLI Documentation v0.486
MANAGE-VLAN(1)
NAME
    manage-vlan - list/modify/get-stats VLANs,
list/reserve/modify/release
    IP addresses
SYNOPSIS
    manage-vlan list [-s col_name | -b col_name] [-F perl_expression]
[-f
    filters] [ --oc col_name ] [-R]
    manage-vlan modify --vlan-id vlan_id -d description
    manage-vlan list-dns [-r | -u] [-s col_name | -b col_name] [-F
perl_expression] [-f filters] [ --oc col_name ] [-R]
    manage-vlan modify-dns --ip address --dns dns_name
    manage-vlan list-addresses [-a | -r | -u] [-s col_name | -b
col_name]
    [-F perl_expression] [-f filters] [ --oc col_name ] [-R] [-v]
    manage-vlan reserve-address --ip address [-d description] [ --dns
dns_name ]
    manage-vlan modify-address --ip address -d description
    manage-vlan release-address --ip address
    manage-vlan get-acl --vlan-id vlan_id [--file path]
    manage-vlan set-acl --vlan-id vlan_id (--file path | -) [--async]
    [--force]
    manage-vlan append-acl --vlan-id vlan_id (--file path | -) [--async]
    manage-vlan validate-acl (--file path | -)
    manage-vlan get-stats --vlan-id vlan_id --from-date date --to-date
date
    manage-vlan history [--vlan-id vlan_id] [--depth number]
    manage-vlan command [--username username] [--password password]
    manage-vlan command -h
    manage-vlan (help | -h) [command]
    manage-vlan -V
DESCRIPTION
    This command lets you list your VLANs, modify VLAN descriptions, get
VLANs bandwidth usage statistics, and list, reserve, modify, and
release IP addresses in your VLANs. Reserving an IP address means it
will not be used to launch an instance unless you explicitly specify
it. You do not need to reserve an IP address from your VLAN before
using it.
    This command is also used to manage VLAN Access Control Lists
(ACLs).
    You can retrieve and change your VLAN ACL either completely or by
appending new Access Control Entries (ACEs) to the existing ACL.
Before
    changing the ACL you can use this tool to check the validity of new
ACEs.
OPTIONS
    --vlan-id
        ID number of VLAN. Must be a composite string
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    '<datacenter_id>:<vlan_id>', e.g. 'NYM1:1', 'LAX1:210'.
--ip
    IP address to reserve, release, or modify. Must be a composite
    string '<datacenter_id>:<ip_address>', e.g.
'NYM1:192.168.128.1',
    'LAX1:192.168.128.2'.
-a, --available
    List available IP addresses in your VLANs.
-r, --reserved
    List IP addresses that you have already reserved.
-u, --used
    List IP addresses that are in use.
-d, --description
    Optional custom description to attach to the VLAN or IP address.
--dns
    The desired DNS name for the IP address. See the section DNS
NAMES
    below for more details.
--file
    Path to a file that is used for either uploading an ACL or ACE
or
    for storing a retrieved ACL. This parameter is mutually
exclusive
    with a lone dash (stdin).
--force
    If user attempts to clear the VLAN ACL completely, they will be
    prompted to enter "--force" as a precaution.
--from-date
    Beginning of time interval for get-stats command. Allowed
format:
    YYYY-MM-DD.
--to-date
    End of time interval for get-stats command. Allowed format:
YYYY-
    MM-DD.
--depth
    Number of most recent operations to show in history. Default is
    20.
--async
    Execute command in asynchronous mode. This means that the CLI
will
    not wait to apprise you of your command's status before being
    available for the next command.
-v, --verbose
    Output data in verbose mode.
-s, --sort
    Column name(s) for sorting (ip_address, vlan_id, subnet,
priority,
    state, instance_id, server_id, description). Use --sort
    <column_name1>{,<column_nameN>}.
-b, --rsort
    Column name(s) for reverse sorting.
-f, --filter

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Filter results by column name (ip_address, vlan_id, subnet, priority, state, instance_id, server_id, description). Use

--filter <column_name1>=<pattern1>{,<patternN>} {<column_name2>=<pattern2>{,<patternN>}} where {} indicates an optional parameter. Do not use a space between multiple patterns.

For example, --filter state=reserved,available.

-F, --server-side-filter Filters results on the server side before they are passed to the client. The value for this option is a perl expression which controls whether rows are included in the result set returned to the client. Server and client side filtering can be freely combined. See the section SERVER SIDE FILTERING for more details.

--oc Specify a comma separated list of data columns to return in list output.

-R, --raw Output data in tab-delimited form.

--username Username for API, same as for Customer Portal. Could be specified in CLI config file "rpc.cfg" (expected locations: /etc/appnexus, ~/.appnexus, or the current working directory).

--password Password for API, same as for Customer Portal. If password isn't specified, you'll be asked to enter it. Note that specifying a password on the command line should be considered insecure. Password could be specified in CLI config file, but to keep the password safe, the file should not be accessible to anyone but yourself. To ensure this, set the file access mode to 400 or 600.

-V, --version Version of the command-line interface you are currently using.

-h, --help Display help.

COMMANDS

list

List all VLANs belonging to the customer.
 Required Parameters: none
 Optional Parameters: (-s/--sort | -b/--rsort),
 -F/--server-side-filter, -f/--filter, --oc, -R/--raw

modify

Modify the description of a particular VLAN.
 Required Parameters: --vlan-id, -d/--description
 Optional Parameters: none

list-dns

List all reserved or used IP addresses. Output includes VLAN ID; state (used by instance, used by server, or reserved); instance

ID

if applicable; server ID if applicable; and DNS name associated with the IP address.

Required Parameters: none
Optional Parameters: (-r/--reserved | -u/--used), (-s/--sort | -b/--rsort), -F/--server-side-filter, -f/--filter, --oc,
-R/--raw
 modify-dns
 Modify the DNS name for the specified reserved or used IP address.
 Required Parameters: --ip, --dns
 Optional Parameters: none
 list-addresses
 List all available IP addresses. Output includes VLAN ID; state (used by instance, used by server, available, or reserved); instance ID if applicable; server ID if applicable; and description, if you have added one. Verbose output additionally includes device_id (which is useful for IPs assigned to network devices, i.e. not instances or servers); dns_name (FQDN) if applicable; and device_name.
 Required Parameters: none
 Optional Parameters: (-a/--available | -r/--reserved | -u/--used), (-s/--sort | -b/--rsort), -F/--server-side-filter, -f/--filter, --oc, -R/--raw, -v/--verbose
 reserve-address
 Reserve IP address from being automatically used for instance launch. You still can launch an instance with an already reserved IP address: pass the optional parameter '--ip' for the 'manage-instance launch' command. A new A record will be added to DNS for the newly reserved IP address. You can use the --dns option to specify the DNS name. The default DNS name is ipNNN.DC.DD where NNN is a number assigned by the cloud API, DC is the datacenter ID, and DD is the customer default DNS domain.
 Required Parameters: --ip
 Optional Parameters: -d/--description, --dns
 modify-address
 Change or add a description for an IP address.
 Required Parameters: --ip, -d/--description
 Optional Parameters: none
 release-address
 Release a previously reserved IP address. If a DNS record for the reserved address exists, it will be removed.
 Required Parameters: --ip
 Optional Parameters: none
 get-acl
 Show VLAN ACL. You can pass the optional parameter '--file' for storing the ACL in file.
 Required Parameters: --vlan-id
 Optional Parameters: --file

set-acl
Set VLAN ACL completely, overwriting the current ACL. If user attempts to clear the ACL by submitting a blank file or blank standard input (stdin), they will be prompted to enter "--force" as a precaution. The syntax of the ACL is validated, but ACL is not validated for functional correctness.
Required Parameters: --vlan-id, (--file | -)
Optional Parameters: --async, --force

append-acl
Append ACE(s) to the end of the existing VLAN ACL. Will not affect existing ACEs. The syntax of the addition is validated, but the ACL is not validated for functional correctness.
Required Parameters: --vlan-id, (--file | -)
Optional Parameters: --async

validate-acl
Validate syntax and semantics of ACE(s).
Required Parameters: (--file | -)
Optional Parameters: none

get-stats
Show VLAN bandwidth usage statistics (megabits per second in/out) during the specified time interval (maximum is one month).
Required Parameters: --vlan-id, --from-date, --to-date
Optional Parameters: none

history
Show history of operations on VLANs. If no particular VLAN is specified then operations on all VLANs will be displayed.
Required Parameters: none
Optional Parameters: --vlan-id, --depth

help
Show help.
Required Parameters: none
Optional Parameters: list, modify, list-addresses, reserve-address, modify-address, release-address, get-acl, set-acl, append-acl, validate-acl, get-stats, history

DNS NAMES
Please note that fully qualified DNS names must end with a dot '.'.

DNS
names without the terminating dot will have the default DNS domain appended to them. You can list your DNS domains, determine which domain is the default domain, and change the default DNS domain with the command manage-dns-domain.

SERVER SIDE FILTERING
You can use the -F option to filter the result set on the server side before the results are passed to the client. The value for the -F option is a perl expression which, when evaluates to true, causes

the

row to be included in the result set, and when false, it causes this row to be excluded from the result set passed to the client. You can further refine the displayed results using client side filtering and ordering options -f, -s, and -b. The perl expression is limited to using variables, comparison operators, regular expressions, parentheses, and a few other operations. Function calls and loops

are

not allowed. Variable names match column names with the dollar sign prepended to them as is customary in perl.

Examples:

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manage-vlan list -F '$id eq "LAX1:100"'
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List only the VLAN LAX1:100.

```
manage-vlan list -F '$priority eq "disabled" && !$description'
```

List disabled VLANs with no description.

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manage-vlan list-addresses -F '$vlan_id eq "LAX1:2030"'
```

List addresses for the VLAN LAX1:2030.

SEE ALSO

manage-instance, manage-server, manage-lb-ip, manage-lb-pool,
manage-

gslb-zone, manage-gslb-domain, manage-gslb-group, manage-storage
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