Detect Internet

Introduction

Detect Internet is a tool that categorizes monitored interfaces into the following states - **Internet**, **WAN**, **LAN**, **unknown**, and **no-link**.

State

This submenu displays status of all monitored interfaces defined by the *detect-interface-list* parameter:

```
interface/detect-internet/state/print
```

LAN

All layer 2 interfaces initially have this state.

WAN

Any L3 tunnel and LTE interfaces will initially have this state. Layer 2 interfaces can obtain this state if:

- an interface has an active route to 8.8.8.8 in main routing table.
- an interface can obtain (dynamic DHCP client is created) or has obtained an address from DHCP (does not apply if DHCP server is also running Detect Internet on the DHCP server interface).

> ⚠ WAN interface can fall back to LAN state only when link status changes. LAN interfaces get locked to LAN after 1h and then change only when link status changes.

> ⚠ Note that Detect Internet can install DHCP clients, default routes, DNS servers and affect other facilities.
> Use with precaution, and after enabling the service, check how it interferes with your other configuration.

Internet

WAN interfaces that can reach cloud.mikrotik.com using UDP protocol port 30000 can obtain this state. Reachability is checked every minute. If a cloud is not reached for 3 minutes, the state falls back to **WAN**.

Configuration

```
/interface detect-internet
```

Property	Description
detect-interface-list (*interface list*; Default: **none**)	All interfaces in the list will be monitored by Detect Internet
internet-interface-list (*interface list*; Default: **none**)	Interfaces with state Internet will be dynamically added to this list
lan-interface-list (*interface list*; Default: **none**)	Interfaces with state Lan will be dynamically added to this list
wan-interface-list (*interface list*; Default: **none**)	Interfaces with state Wan will be dynamically added to this list

```
[admin@MikroTik] > interface/detect-internet/print
detect-interface-list: none
lan-interface-list: none
wan-interface-list: none
internet-interface-list: none
[admin@MikroTik] > interface/detect-internet/set internet-interface-list=all wan-interface-list=all lan-
interface-list=all detect-interface-list=all
[admin@MikroTik] > interface/detect-internet/state/print
Columns: NAME, STATE, STATE-CHANGE-TIME, CLOUD-RTT
# NAME STATE STATE-CHANGE-TIME CLO
0 ether1 internet dec/22/2020 13:46:18 5ms
```