

WAGO LEAN MANAGED SWITCHES

Command Line Interface

```
192.168.1.182 - PuTTY
login as: admin
L2SWITCH>enable
user:admin
password:
L2SWITCH#configure terminal
L2SWITCH(config)#interface eth0
L2SWITCH(config-if)#exit
L2SWITCH(config)#exit
L2SWITCH#
```



WAGO LEAN MANAGED SWITCHES

User Interfaces

Dashboard/ Topology Map



Troubleshooting/ Diagnosis
Maintenance People

WBM

The screenshot shows the WAGO WBM (Web-based Management) interface. The top navigation bar includes 'Information', 'Configuration', 'Security', 'Redundancy', and 'Diagnostic'. The left sidebar lists 'Device Discovery', 'Interface', 'PoE Settings', 'SNMP', 'System Management', 'General Setup', 'SNTP', 'User Account', and 'Storm Control'. The main content area is titled 'General Setup' and contains a 'TCP/IP Configuration' section. This section has a 'Network Details eth0' subsection with fields for 'IP Source' (Static IP), 'IP Address' (192.168.1.182), 'Subnet Mask' (255.255.255.0), and 'Default Gateway' (192.168.1.1). There's a 'Submit' button. Below this is a 'Hostname' section with 'Currently Used' (L2SWITCH) and 'Configured' fields, with 'Clear' and 'Submit' buttons.

Troubleshooting/ Diagnosis
Configuration

“PFC-level”

CLI

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Troubleshooting/ Diagnosis
Configuration

“IT-level”
More Complex System Configurations
More Configuration Options

WAGO LEAN MANAGED SWITCHES

CLI (Command Line Interface) languages

Putty and general keyboard options

SSH communication

Paste

<-> right mouse click

TAB

<-> auto complete

Arrow Up/down

<-> instruction buffer



Linux based CLI

"CISCO style" CLI



WAGO LEAN MANAGED SWITCHES

CLI (Command Line Interface)

192.168.1.182 - PuTTY

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L2SWITCH#configure terminal
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L2SWITCH#
```

Connection via SSH (putty)

Type: <enter>
admin <enter>
enable <enter>
(user:) admin
(password:) wago

configure terminal

interface eth0

L2SWITCH# means **enable mode**

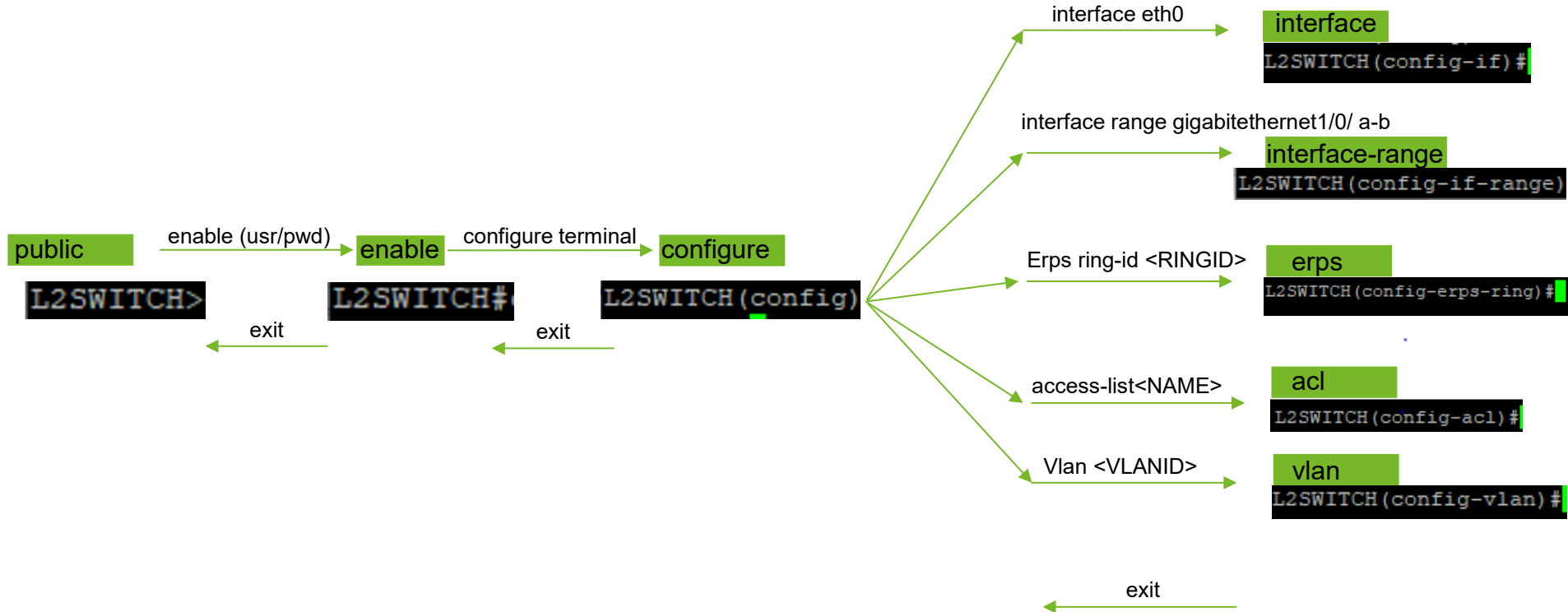
L2SWITCH(config) means **config mode**

L2Switch(config-if)# means **interface mode**

WAGO	public	ENABLE	CONFIGURE	
CISCO	User EXEC	Privileged Exec	Global Configuration	VLAN Configuration

WAGO LEAN MANAGED SWITCHES

Nodes (modes)



WAGO LEAN MANAGED SWITCHES

CLI reference using TAB

```
login as: admin
L2SWITCH>enable
user:admin
password:
L2SWITCH#
configure          disable          enable          exit
list               ping               show            telnet

L2SWITCH#show
access-list        alarm-info         allcmds          bandwidth-limit
cmdslist           diffserv          dot1x            erps
gateway-keep-alive hostname          igmp-snooping   interface
ip-multicast       jumboframe        lldp             loop-detection
mac-address-table  mirror            modbus tcp       model
netlite-device     onvif             port-isolation   port-security
port-statistics    port-utilization  qos              queue
running-config     server            snmp             spanning-tree
storm-control      syslog            system-info      time
traffic-monitor    uptime            user             vlan
vlan-list

L2SWITCH#show snmp
group              port-link-change-trap trap-event        user
view

L2SWITCH#show snmp
```

Enable mode

TAB -> commands in
ENABLE mode

<show> TAB

sub commands of show

<snmp> TAB

sub commands of show/snmp

SHOW COMMANDS

```
show access-list
show alarm-info
show allcmds
show bandwidth-limit
show cmdslst
show diffserv
show dot1x
show dot1x accounting-record
show dot1x ports PORTLISTS
show dot1x username
show erps
show erps instance
show erps instance VALUE
show erps ring VALUE
show gateway-keep-alive
show hostname
show igmp-snooping
show igmp-snooping querier
show interface
show interface eth0
show interface range gigabitethernet1/0/ PORTLISTS
show ip-multicast
show jumboframe
show lldp
show lldp neighbors
show loop-detection
show mac-address-table
show mac-address-table (static|dynamic)
show mac-address-table aging-time
show mac-address-table mac MACADDR
show mac-address-table port PORT_ID
show mirror
show modbus_tcp
show model
show netlite-device
show port-isolation
show port-security
show port-statistics
show port-utilization
```

```
show qos mode
show queue cos-map
show running-config
show server status
show snmp
show snmp group
show snmp port-link-change-trap
show snmp trap-event
show snmp user
show snmp view
show spanning-tree active
show spanning-tree blockedports
show spanning-tree port detail PORT_ID
show spanning-tree statistics PORT_ID
show spanning-tree summary
show storm-control
show syslog
show syslog level <1-6>
show syslog server
show system-info
show time
show traffic-monitor
show uptime
show user account
show vlan
show vlan <1-4094>
show vlan list
```

WAGO LEAN MANAGED SWITCHES

CLI reference – List shows all available commands at the current CLI mode

```
L2SWITCH_1813_001_182#list
configure terminal
disable
enable
exit
list
ping IPADDR
ping -c VALUE IPADDR
ping -c VALUE -s VALUE IPADDR
ping -s VALUE IPADDR
ping -s VALUE -c VALUE IPADDR
show access-list
show alarm-info
show allcmds
show bandwidth-limit
show cmdslst
show diffserv
show dot1x
show dot1x accounting-record
show dot1x ports PORTLISTS
show dot1x username
show erps
show erps instance
show erps instance VALUE
show erps ring VALUE
show gateway-keep-alive
show hostname
show igmp-snooping
show igmp-snooping querier
show interface
show interface eth0
show interface range gigabitethernet1/0/ PORTLISTS
show ip-multicast
show jumboframe
show lldp
show lldp neighbors
show loop-detection
show mac-address-table
show mac-address-table (static|dynamic)
show mac-address-table aging-time
show mac-address-table mac MACADDR
show mac-address-table port PORT_ID
show mirror
show modbus tcp
show model
show netlite-device
show onvif
show onvif neighbors VALUE
show pd-alive
show poe
show poe schedule port PORT_ID
show port-isolation
show port-security
```

```
L2SWITCH_1813_001_182(config)#list
access-list STRINGS
add user STRINGS STRINGS (normal|admin|dot1x)
archive download-config URL_PATH
archive download-config URL_PATH startup-config
archive download-config URL_PATH user-default-config
archive download-fw URL_PATH
archive download-running-config URL_PATH
archive download-secondary-fw URL_PATH
archive upload-config URL_PATH
archive upload-config URL_PATH running-config
archive upload-syslog
bandwidth-limit egress RATE LIMIT ports PORTLISTS
bandwidth-limit ingress RATE LIMIT ports PORTLISTS
clear mac-address-table dynamic
clear port-statistics
clear spanning-tree counters
clear syslog
cli auto-logout (5|2|10|15|never)
copy factory-default-config to user-default-config
copy startup-config to user-default-config
delete user STRINGS
deny udp-to-cpu-storm
diffserv (disable|enable)
diffserv dscp <0-63> priority <0-7>
dot1x accounting (disable|enable)
dot1x accounting-clean
dot1x authentic-method (local|radius)
dot1x authentication (disable|enable)
dot1x default
dot1x guest-vlan <1-4094>
dot1x radius primary-server-ip IPADDR port VALUE key STRINGS
dot1x radius primary-server-ip IPADDR port VALUE
dot1x radius secondary-server-ip IPADDR port VALUE key STRINGS
dot1x radius secondary-server-ip IPADDR port VALUE
dot1x username STRINGS STRINGS
end
erps enable
erps instance
erps ring-id VALUE
exit
gateway-keep-alive (disable|enable)
gateway-keep-alive interval <30-300>
hostname
http server
http server port VALUE
```

```
L2SWITCH_1813_001_182(config-if)#list
end
exit
ip address IPADDR_MASK
ip address default-gateway IPADDR
ip dhcp client (disable|enable|renew|next_restart)
list
management host IPADDR
management subnet-host IPADDR_MASK
management vlan <1-4094>
no management host IPADDR
show
```

WAGO LEAN MANAGED SWITCHES

CLI reference – <ENABLE> show allcmds

```
LSWITCH 1916 191#show allcmds
#### NODE 1 #####
configure
  terminal
  dbg-show-stp-flag
  dbg-stp
    all
    bpdn
    config
    events
    general
    root
    sync
  debug-switch
  disable
  enable
  exit
  list
  no-dbg-stp
    all
    bpdn
    config
    events
    general
    root
    sync
  ping
    -c
      VALUE
    -s
      VALUE
      IPADDR
    -s
      VALUE
    -c
      VALUE
      IPADDR
      IPADDR
```

```
show
  access-list
  alarm-info
  allcmds
  bandwidth-limit
  cmdlist
  console-log
  diffserv
  dot1x
  accounting-record
  ports
    PORTLISTS
  erps
    username
    instance
    ring
    ring
  gateway-keep-alive
  hostname
  ipmg-snoping
  querier
  interface
    eth0
    range
    gigabitethernet1/0/
    PORTLISTS
  ip-multicast
  jumboframe
  llcp
    neighbors
  loop-detection
  mac-address-table
    aging-time
    dynamic
    mac
    MACADDR
  port
    static
    PORT_ID
  mirror
  modbus_tcp
  model
  netlite-device
  onvif
    neighbors
    VALUE
  port-isolation
  port-security
  port-statistics
  port-utilization
  qos
    mode
  queue
  qos-map
  running-config
  server
    status
  snmp
    community
    group
    port-link-change-trap
    trap-event
    trap-receiver
    trusted-host
    user
    view
  spanning-tree
    active
    blockedports
    port
```

```
port
  detail
  statistics
    PORT_ID
  summary
  storm-control
  syslog
    level
    server
  system-info
  time
  traffic-monitor
  uptime
  user
  account
  vlan
    <1-4094>
  vlan-list
  telnet
  ##### NODE 5 #####
  access-list
  add
    user
    STRINGS
    STRINGS
    admin
    dot1x
    normal
  archive
    download-config
      URL_PATH
      startup-config
      user-default-config
    download-fw
      URL_PATH
    download-running-config
      URL_PATH
    download-secondary-fw
      URL_PATH
    upload-config
      URL_PATH
    running-config
    upload-syslog
  bandwidth-limit
    egress
      RATE_LIMIT
      ports
    ingress
      RATE_LIMIT
      ports
  clear
    mac-address-table
      dynamic
    port-statistics
    spanning-tree
    counters
  syslog
  cli
    auto-logout
    user
    view
    10
    15
    2
    5
    never
```

```
ports
  PORTLISTS
  mode
  both
  egress
  ingress
  modbus_tcp
  disable
  enable
  model-name
  netlite-device
  background-type
  color
  picture-value
    STRINGS
  color-value
    HEX_VALUE
  picture
  picture-value
    STRINGS
  color-value
    HEX_VALUE
  type
  camera
  mac
  MACADDR
  ip
  IPADDR
  product-name
    STRINGS
  system-name
    STRINGS
  computer
  mac
  MACADDR
  ip
  IPADDR
  product-name
    STRINGS
  system-name
    STRINGS
  display
  mac
  MACADDR
  ip
  IPADDR
  product-name
    STRINGS
  system-name
    STRINGS
  machine
  mac
  MACADDR
  ip
  IPADDR
  product-name
    STRINGS
  system-name
    STRINGS
  notebook
  mac
  MACADDR
  ip
  IPADDR
  product-name
    STRINGS
  system-name
    STRINGS
  others
  mac
  MACADDR
```

SHOW CONFIGURATION

```
login as: admin
L2SWITCH>enable
user:admin
password:
L2SWITCH#show running-config
Current configuration:
port 1 role access vlan 1 tag off
port 2 role access vlan 1 tag off
port 3 role access vlan 1 tag off
port 4 role access vlan 1 tag off
port 5 role access vlan 1 tag off
port 6 role access vlan 1 tag off
port 7 role access vlan 1 tag off
port 8 role access vlan 1 tag off
!
igmp-snooping unknown-multicast flooding
igmp-snooping vlan 1
igmp-snooping enable
interface gigabitethernet1/0/1
!
interface gigabitethernet1/0/2
!
interface gigabitethernet1/0/3
!
interface gigabitethernet1/0/4
!
interface gigabitethernet1/0/5
--More-- (75% of 723 bytes)
```