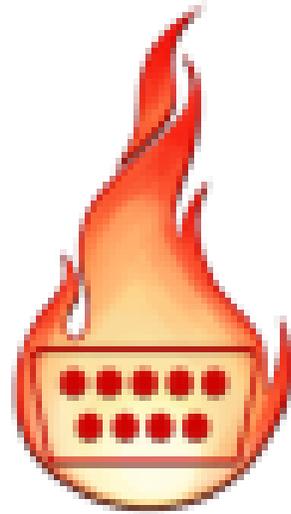




# Frameworks de automação

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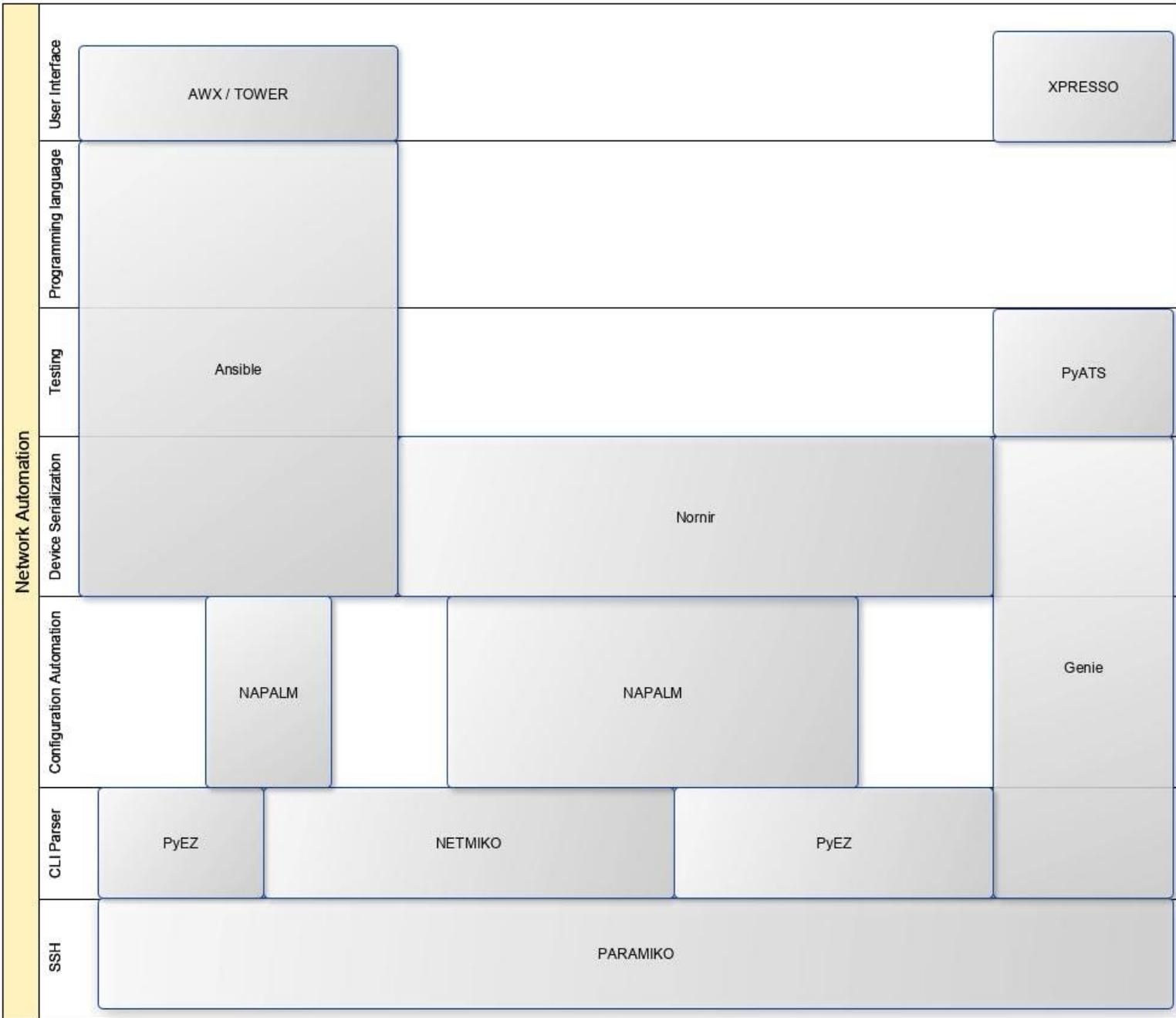
Renato Almeida de Oliveira



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NETMCOKO



```
Loopback1 is up, line protocol is up
Hardware is Loopback
MTU 1514 bytes, BW 8000000 Kbit/sec, DLY 5000 usec,
    reliability 255/255, txload 1/255, rxload 1/255
Encapsulation LOOPBACK, loopback not set
Keepalive set (10 sec)
Last input 17:17:39, output never, output hang never
Last clearing of "show interface" counters never
Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0
Queueing strategy: fifo
Output queue: 0/0 (size/max)
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  0 packets input, 0 bytes, 0 no buffer
Received 0 broadcasts (0 IP multicasts)
  0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
154 packets output, 11778 bytes, 0 underruns
Output 0 broadcasts (0 IP multicasts)
  0 output errors, 0 collisions, 0 interface resets
  0 unknown protocol drops
```

```
>>> print(json.dumps(interface , indent=4, sort_keys=True))
{
  "Loopback0": {
    "bandwidth": 8000000,
    "delay": 5000,
    "enabled": true,
    "encapsulations": {
      "encapsulation": "loopback"
    },
    "ipv4": {
      "10.10.10.2/24": {
        "ip": "10.10.10.2",
        "prefix_length": "24"
      }
    },
    "keepalive": 10,
    "last_input": "04:18:26",
    "last_output": "never",
    "line_protocol": "up",
    "mtu": 1514,
    "oper_status": "up",
    "output_hang": "never",
    "port_channel": {
      "port_channel_member": false
    },
  },
}
```



```
# for interface in interfaces:
interface {{ interface.name }}
  # if interface.description is defined:
description {{ interface.description}}
  # endif
  # if (interface.ipv4 is defined ):
  # if (interface.ipv4.address is defined ):
  # for address in interface.ipv4.address:
ip address {{ address.ip }} {{ address.prefix_length | cidr_to_netmask}}
  # endfor
  # endif
# endif
```

Comware

```
# for interface in interfaces :
# if interface.description is defined :
/interface set comment="{{interface.description}}" [find name={{interface.name }}]
# endif
# if (interface.ipv4 is defined ) :
# if (interface.ipv4.address is defined ) :
/ip address remove [find interface={{ interface.name }}]
# for address in interface.ipv4.address :
/ip address add address {{ address.ip }}/{{ address.prefix_length }} interface={{ interface.name }}
# endfor
# endif
# endif
# endfor
```

MikroTik

```
# for interface in interfaces:
interface {{ interface.name }}
  # if interface.description is defined:
description {{ interface.description}}
  # endif
  # if (interface.ipv4 is defined ):
  # if (interface.ipv4.address is defined ):
  # for address in interface.ipv4.address:
ip address {{ address.ip }} {{ address.prefix_length | cidr_to_netmask}}
  # endfor
  # endif
# endif
```

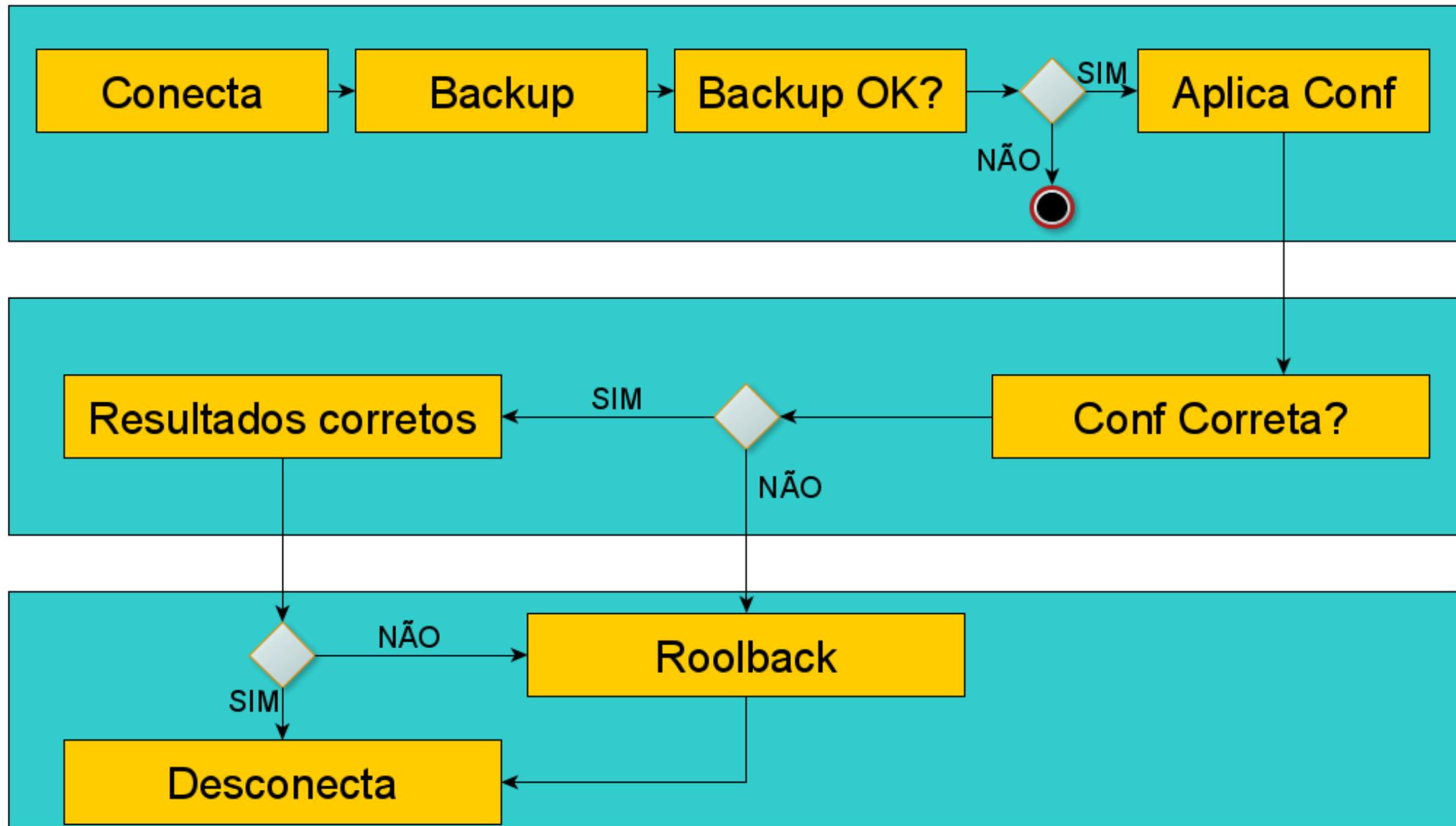
IOS



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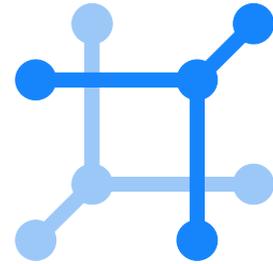
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HashiCorp  
**Vault**



**netbox**