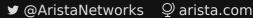
Automating Arista Network Fabric

What is Arista Validated Design (AVD)?

An extensible data model that defines Arista's Unified Cloud Network (UCN) architecture as "code"

Benefits

- Automatic generation of documentation and validation tests |
- Foundation for Infrastructure-as-Code
- Faster time to production •
- Reduced risk of configuration error
- Consistent global configuration changes across the network



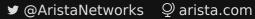


```
# Fabric/Host variables
underlay_routing_protocol: EBGP
```

```
router_bgp:
  address_family_ipv4:
    peer_groups:
      UNDERLAY-PEERS:
        active: true
```

```
{% if router_bgp.as is arista.avd.defi
router bgp {{ router_bgp.as }}
```

```
# EOS CLI
router bgp 65001
  address-family ipv4
      neighbor UNDERLAY-PEERS activate
```



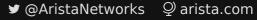


Automated documentation

POINT-TO-POINT LINKS NODE ALLOCATION

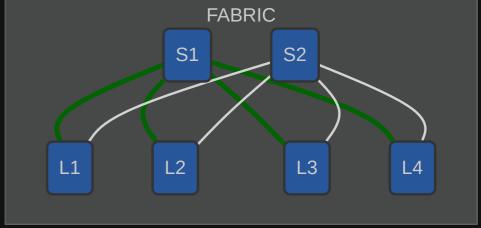
Node	Node Interface	Node IP Address	Peer Node	Peer Interface	Peer IP Address
dc1-leaf1a	Ethernet1	10.255.255.1/31	dc1-spine1	Ethernet1	10.255.255.0/31
dc1-leaf1a	Ethernet2	10.255.255.3/31	dc1-spine2	Ethernet1	10.255.255.2/31
dc1-leaf1b	Ethernet1	10.255.255.5/31	dc1-spine1	Ethernet2	10.255.255.4/31
dc1-leaf1b	Ethernet2	10.255.255.7/31	dc1-spine2	Ethernet2	10.255.255.6/31

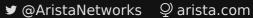
Group variables



Fabric wide definitions | Topology

```
underlay_routing_protocol: EBGP
overlay_routing_protocol: EBGP
local_users:
 ansible:
   privilege: 15
   role: network-admin
 admin:
   role: network-admin
```





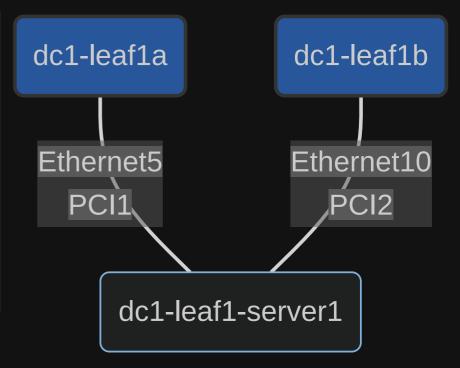
Network services

- Tenants
- L3 & L2 services

```
# NETWORK_SERVICES.yml
tenants:
 TENANT1:
   vrfs:
      VRF10:
        svis:
          "11":
            name: VRF10_VLAN11
            ip_address_virtual: 10.10.11.1/24
    l2vlans:
      "3401":
        name: L2_VLAN3401
      "3402":
        name: L2_VLAN3402
```

Connected endpoints | Topology

```
# CONNECTED_ENDPOINTS.yml
servers:
 dc1-leaf1-server1:
    adapters:
    - type: server
      server_ports: [ PCI1, PCI2 ]
      switch_ports: [ Ethernet5, Ethernet10 ]
      switches: [ dc1-leaf1a, dc1-leaf1b ]
      vlans: 11-12,21-22
      native vlan: 4092
      mode: trunk
      spanning_tree_portfast: edge
      port_channel:
        description: PortChannel dc1-leaf1-server1
        mode: active
```



Ansible AVD Collection

KEYBOARD SHORTCUTS

right / space	next animation or slide
left / shift space	previous animation or slide
up	previous slide
down	next slide



Code

```
interface User {
  id: number
  firstName: string
  lastName: string
  role: string
}

function updateUser(id: number, update: User) {
  const user = getUser(id)
  const newUser = { ...user, ...update }
  saveUser(id, newUser)
}
```

```
all:
    children:
    cv_servers:
        hosts:
        cv_atd1:
        ansible_host: 192.168.0.5
        ansible_user: arista
        ansible_password: # update password with "Lab Crecy_collection: v3
```

Themes

Slidev comes with powerful theming support. Themes can provide styles, layouts, components, or even configurations for tools. Switching between themes by just **one edit** in your frontmatter:

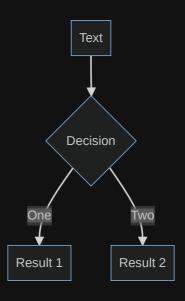
```
theme: default
theme: seriph
---
```

Read more about How to use a theme and check out the Awesome Themes Gallery.

Diagrams

You can create diagrams / graphs from textual descriptions, directly in your Markdown.





Thank you

Documentation · GitHub · Showcases