

UNG CLOUD

***SDN IN NETWORK CLOUD
SERVICE***





1. SOFTWARE DEFINE NETWORK ARCHITECTURE



2. DEPLOY SDN IN VNGCLOUD

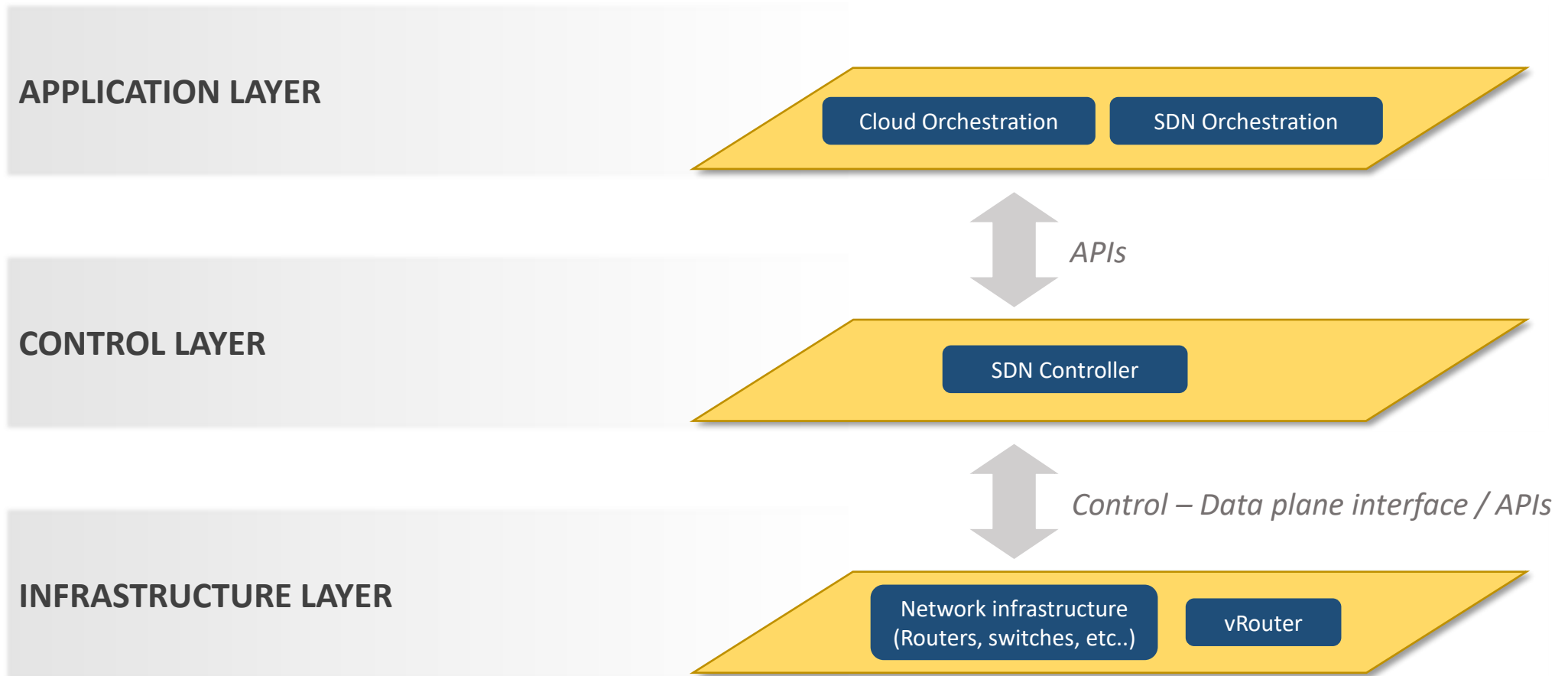


3. CHALLENGES TO CREATE NETWORK CLOUD SERVICES



4. VNGCLOUD SERVICE NETWORK

1. SOFTWARE DEFINE NETWORK ARCHITECTURE



2. DEPLOY SDN IN VNGCLOUD

- Based on overlay network architecture

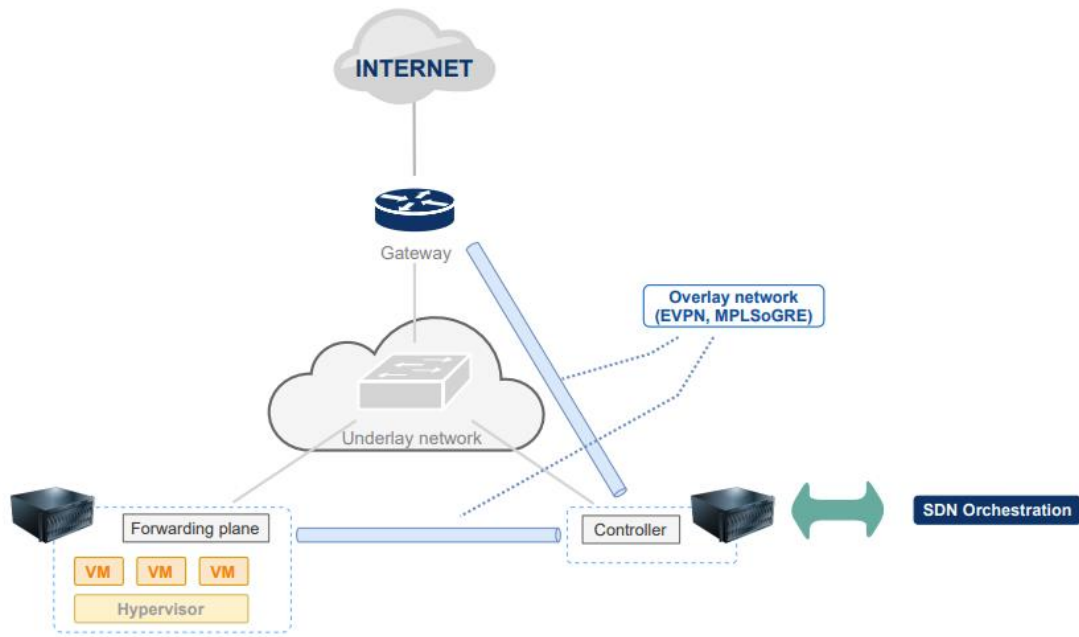


Figure-1

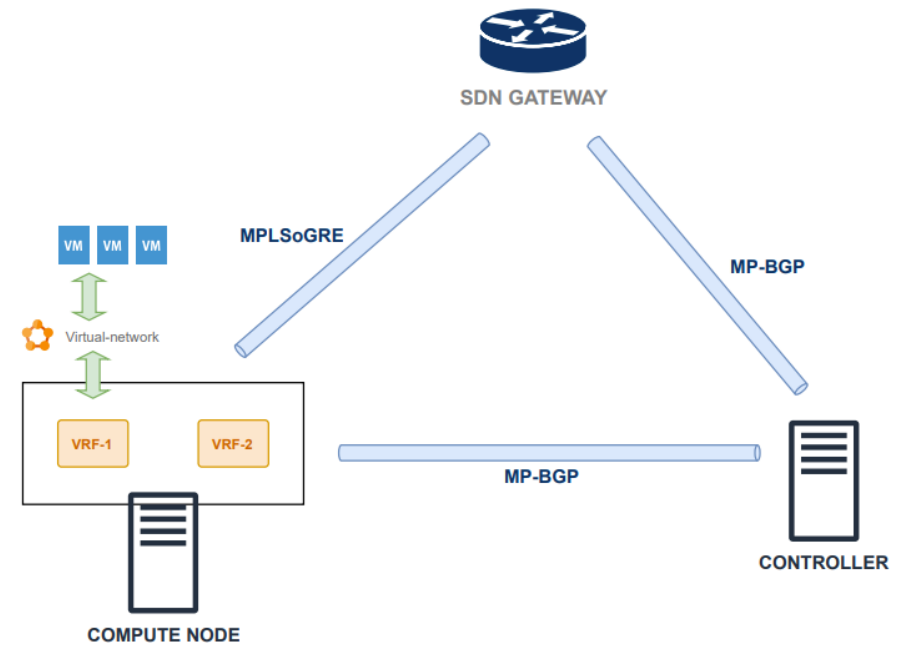






Figure-2

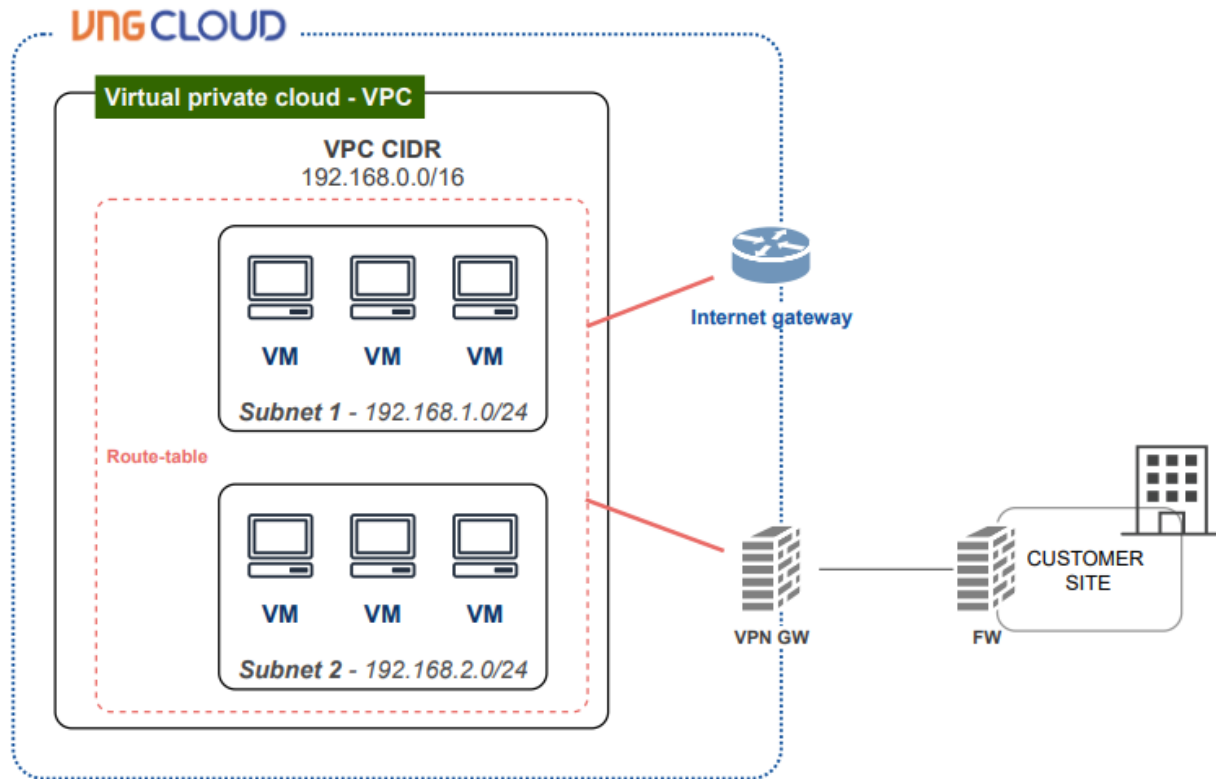
3. CHALLENGES TO CREATE NETWORK CLOUD SERVICES



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1. Virtualization network: create network resource without worrying how it is organized. Example: create subnet, gateway...
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2. Multi-tenancy: tenants can control their addresses, topology, routing, security
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3. Service integration: integrate load balancers, firewalls, 3rd party devices into cloud system and placed approximately on traffic path
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4. Automation: to reduce operational expenditure
 - Minimize manual involvement – Policy enforcement, provisioning, re-provisioning, reduce downtime

4. VNGCLOUD SERVICE NETWORK

VPC ARCHITECTURE



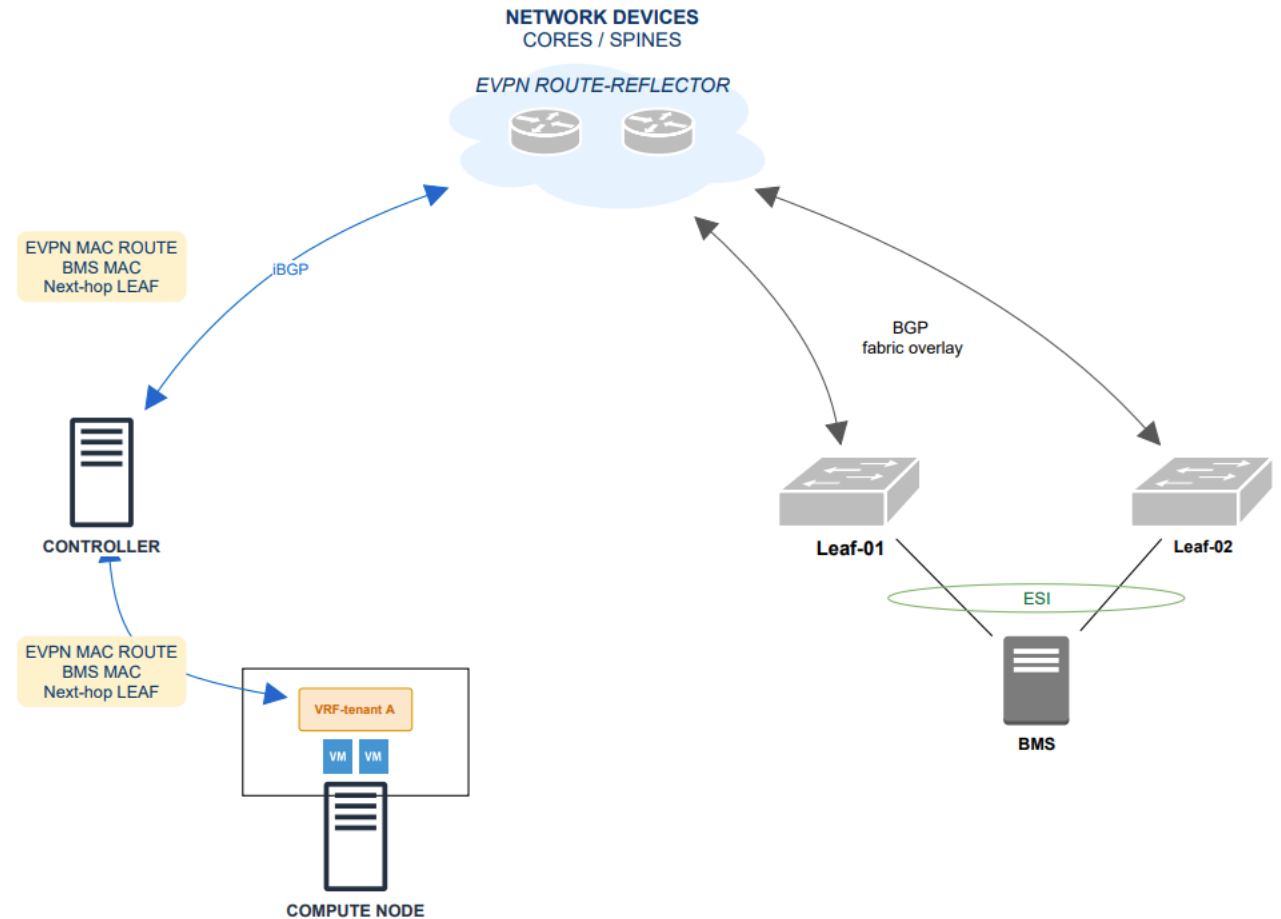
- ❖ Separate with public cloud
- ❖ Multi-tenancy
- ❖ Define / control network environment:
 - Subnet, VM
 - Management console
- ❖ Security:
 - Security group: group of rules to specify type of traffic to pass through port on VM
- ❖ Route-table: control routing for VPC

4. VNGCLOUD SERVICE NETWORK

SERVICE INTEGRATION

❖ Bare metal server integration in VNGCloud – BMS

Provide connection among bare metal service (Physical machines) and VPC



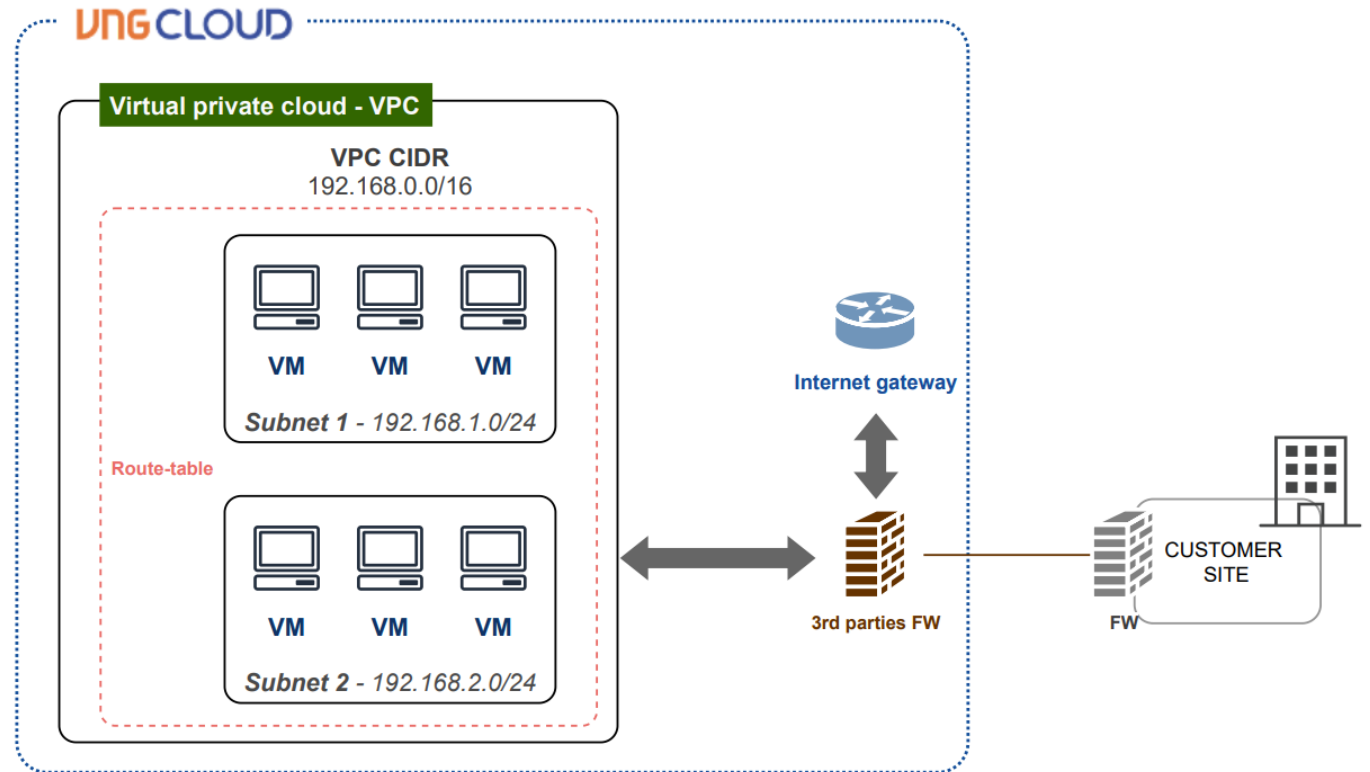
4. VNGCLOUD SERVICE NETWORK

SERVICE INTEGRATION

❖ Market-place

Provide flexible service chaining – market place, integrate with:

- vFirewalls – vSRS, vASA
- vLoadbalancer
- vRouter



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Thank you

