



Ids and ips aws

In a regular enterprise network, customers have VPC across multiple accounts within an AWS Region to segment workloads. These segmentations, and models. Segmentation drivers may vary. For example, segmentation can be driven by security and regulatory requirements, costs, or technology. VARIOUS VPC and applications can have different requirements for reaching resources on the internet-based applications. This can be a complex task to meet your business requirements with a secure outgoing internet architecture using an Independent Software Vendor (ISV) firewall that can perform in-line packet inspections on AWS. Security features such as security features and network ACLs help build layered network defenses for your VPC. Nat gateways can be used to access the internet. However, they don't provide advanced traffic inspection features that your business might need, such as antivirus, web filtering, and data loss prevention. To conduct inline in-depth packet inspections, customers typically use is vironments. This security solution can be hosted on every VPC and account. However, this type of design is not well scaled, becomes difficult to manage, and can be expensive. Centralizing your security solutions in VPC and using intra-VPC connectivity helps solve these challenges. In this post, we show you the architectures that AWS Transit Gateway uses to set up VPC hubs that host centralized security solutions. It allows you to check internet bound traffic from various VPC in a simplified, centralized, and scalable way. The Transit Gateway Architecture allows several ways to route traffic to and from VPC running your AWS Marketplace firewall that supports a variety of configuration modes. How to integrate third-party firewall tools into an AWS environment provides details about design considerations for possible architectures to attach your VPC to transit gateways. When deploying firewall solutions, we recommend that you deploy a firewall as a standalone instance, or configure it as a cluster. Specific implementation details vary by firewall vendor. When deploying as a cluster, cluster members synchronize configuration and firewall status information. This enables faster failover in the same Availability Zone in case of a problem with one member of the cluster. In this architecture, we have configured firewall solutions as clusters in every Zone in active-passive mode. In passive-active mode, one firewall actively manages traffic while the other is synchronized and ready to transition to Country. When a failure occurs, the load distribution between firewalls does not change when the passive node takes traffic from the active firewall. This provides automatic device failover between clusters. We then use Border Gateway Protocol (BGP) to fail to cross availability zones if both firewalls in a cluster in a particular Availability Zone become unavailable. We chose the passive-enabled deployment method because it is a common method recommended by firewall vendors when implementing in cloud environments. This allows for a quick failover in one Availability Zone if there is a problem with one of the firewall instances. We demonstrated fortinet firewall hosting from AWS Security Hub VPC and grouped them in active passive mode. A VPN attachment is created on the active Fortinet firewall of the transit gateway. We decided to use Fortinet because of our previous experience with Fortinet FortiGate. However, the architecture presented in this post can be implemented with any partner firewall vendors listed in the Additional Resources section at the end of this post. With this configuration, you achieve high firewall vendors listed in the Additional Resources section at the end of this post. All talking VPC's are directly attached to the transit gateway. You can add black hole routes in the talk routing table to prevent traffic between talking VPC's being routed through firewalls, as shown in the following diagram. Figure 1. Example of a Transit Gateway deployment connecting 3 VPC to the Internet via a dedicated VPC Security Hub. Firewall in VPC Security Center uses VPN attachments to Transit Gateway. The solution overview Design solution focuses on allowing traffic back. Communication between the talking VPC is blocked by the transit gateway using the black hole route. Incoming communication from the internet to one of the VPC's speaking via transit gateway is outside the scope of this post. The default security policy on firewalls denies incoming traffic from the Internet to internal resources. To reach the destination, use two route tables in the transit gateway: Hub route table: Allows the VPC hub (hosting security solution) to reach one of the talking VPC. Route table spoke: Allows VPN speak to communicate to internet via VPC hub, but does not allow communication Transit Gateway stack. It consists of corresponding routing tables and sharing transit gateways using AWS RAM. Create transit gateway attachments and configure VPC speaks with the appropriate routing. Create a stack of firewalls. hub account in an existing VPC. The firewalls configuration includes policies, VPN, BGP, and routing configurations. Configures the required route table entries in the transit gateway routing table. Transit gateway deployment steps are shared between different accounts. Once created, transit gateway sharing can be done in two ways: Automatically with AWS Organization to True when launching the AWS CloudFormation stack. Manually use AWS RAM. Create an AWS RAM share in a hub account by specifying an account CARD for each account that you want to share a transit gateway with. Create a transit gateway AWS CloudFormation templates. AWSTemplateFormatVersion: Description 2010-09-09: Create a Transit Gateway with two routing tables, and optional sharing through Resource Access Manager. Parameter: TgwName: Type: Default String: Transit Gateway ShareWithOrg: Type: String Default: Description: Enter Organization Id (for example. o-12345) if Organization sharing is MasterAccountId enabled: Type: String Description: Master account Id in AWS Organization Metadata: AWS::CloudFormation::Interface: ParameterGroups: - Label: default: Gateway Transit Details Parameter: - TgwName - Label: default: (Optional) Enable sharing with AWS Organizational Parameters: - ShareWithOrg - OrgId -MasterAccountIdLabels Parameter: TgwName: default: Transit Gateway Name ShareWithOrg: default: Enable Sharing with OrgId Organization: default: AWS Organization: default: AWS Organization: default: Same with-- ! Ref ShareWithOrg: default: Same with-- ! Ref ShareWithOrg: default: TransitGateway Name ShareWithOrg: default: Enable Sharing with OrgId Organization: default: AWS Org Properties: AutoAcceptSharedAttachments: enable DefaultRouteTablePropagation: enable DefaultRouteTablePropagation: enable DefaultRouteTablePropagation: enable DefaultRouteTablePropagation: enable DefaultRouteTablePropagation: enable DefaultRouteTablePropagation: EnableRAM Properties: AllowExternalPrincipals: True Name: TGW-Org-Share Principals:- ! Sub 'arn:aws:organizations::\${AWS::AccountId}:ransit-gateway/\${Tgw}' TgwHubRouteDomain: Type: AWS Properties::EC2::TransitGatewayRouteTable: TransitGatewayId: ! Ref Tgw Tags: - Key: Name Value: Hub Routing Domain TgwSpokeRouteDomain: Type: AWS Properties::EC2::TransitGatewayId: ! Ref Tgw Tags: - Key: Name Value: Spoke Routing Domain Outputs: TransitGatewayId: ! Ref Tgw Tags: - Key: Name Value: Spoke Routing Domain Outputs: TransitGatewayId: ! 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Ref Tgw Tags: - Key: Name Value: Name N the following resource: Transit gateway Two transit gateway route tables: hub and RAM sharing resource, if you decide to set Enable Sharing with Organization to Follow these steps: Launch a template using the AWS CloudFormation console. Save the transit gateway ID created by the stack, and confirm that it is in an Available state. Important: If you decide to use RAM sharing resources in a stack, be sure to enable sharing with AWS organizations under an Aws Organization master account. Create transit gateway attachments and configure VPC that speaks the appropriate route Use the following AWS CloudFormation template. AWSTemplateFormatVersion: Description 2010-09-09: Create Transit Gateway Id required VpcId: Type: String Description: Enter Transit Gateway Id AllowedPattern: .+ ConstraintDescription: Transit Gateway Id required VpcId: Type: AWS::EC2::VPC::Id Description: Vpc Id for Transit Gateway Attachment in VPC RouteTable1: Type: String Description: (Optional) Enter Subnet Route Table Id to include the default route to Transit Gateway RouteTable2: Type: String Description: (Optional) Enter the Subnet Route Table Id to include the default route to Transit Gateway RouteTable3: Type: String Description: (Optional) Enter the Subnet Route Table Id to include the default route to The RouteTable4 Transit Gateway : Type: String Description: (Optional) Enter the Subnet Route Table Id to include the default route to The RouteTable4 Transit Gateway : Type: String Description: (Optional) Enter the Subnet Route Table Id to include the default route to The RouteTable4 Transit Gateway : Type: String Description: (Optional) Enter the Subnet Route Table Id to include the default route to The RouteTable4 Transit Gateway : Type: String Description: (Optional) Enter the Subnet Route Table Id to include the default route to The RouteTable4 Transit Gateway : Type: String Description: (Optional) Enter the Subnet Route Table Id to include the default route to The RouteTable4 Transit Gateway : Type: String Description: (Optional) Enter the Subnet Route Table Id to include the default route to The RouteTable4 Transit Gateway : Type: String Description: (Optional) Enter the Subnet Route Table Id to include the default route to The Route Table Id to include the default route to The Route Table Id to include the default route to The Route Table4 Transit Gateway : Type: String Description: (Optional) Enter the Subnet Route Table Id to include the default route to The Route Table4 Transit Gateway : Type: String Description: (Optional) Enter the Subnet Route Table Id to include the default route to The Route Table4 Transit Gateway : Type: String Description: (Optional) Enter the Subnet Route Table4 Transit Gateway : Type: String Description: (Optional) Enter the Subnet Route Table4 Transit Gateway : Type: String Description: (Optional) Enter the Subnet Route Table4 Transit Gateway the Gateway Transit Metadata: AWS::CloudFormation::Interface: ParameterGroups: - Label: default: Gateway Transit Attachment Parameters: - TransitGatewayId - VpcId - SubnetIds - Label: default: (Optional) Update the following Route Table with the default route to the TGW Parameter: - RouteTable1 - RouteTable2 - RuteTable3 -RouteTable4Labels Parameters: TransitGatewayId: default: Transit Gateway Id VpcId: default: VPC Id SubnetIds: default: RouteTable 1RouteTable 2 Route IdTable3: default: Route Table 3 RouteTable 4 Condition Id: EnableTgwRoute1: ! No, no, AWS::EC2::TransitGatewayAttachment Properties: TransitGatewayId: ! Ref TransitGatewayId: ! Ref TransitGatewayId: ! Ref VpcId: ! Ref Vpc Ref TransitGatewayld TgwRoute2: Type: AWS::EC2::Route DependsOn: TgwAttachment Condition: EnableTgwRoute2 RouteTableId: ! Ref Condition: EnableTgwRoute3 Properties: RouteTableId: ! Ref RouteTable3 DestinationCidrBlock: 0.0.0/0 TransitGatewayId: ! Ref TransitGatewayId TgwRoute4: Type: AWS::EC2::Route DependsOn: TgwAttachment Condition: EnableTgwRoute4 Properties: RouteTableId: ! Ref RouteTable4 DestinationCidrBlock: 0.0.0/0 TransitGatewayId: ! Ref TransitGatewayId TgwRoute4: Type: AWS::EC2::Route DependsOn: TgwAttachment Condition: EnableTgwRoute4 Properties: RouteTableId: ! Ref RouteTable4 DestinationCidrBlock: 0.0.0/0 TransitGatewayId: ! Ref TransitGa TransitGatewayId: ! Ref TransitGatewayId This template creates the following resource: VPC as an attachment to the transit gateway for your personal subnet route table, with the default route pointing to the transit gateway for your personal subnet route table. console using AWS CloudFormation. Provide the following parameters: Transit ID Gateway Spoke VPC (transit gateway attachment) route table ID (subnet route table ID that passes their outbound traffic to the transit gateway) 3. Note the transit gateway attachment IDs, and confirm that they are in Available status. Create a stack of firewalls The Fortinet firewall is configured in an active/passive configuration and hosted from VPC Security Hub with public and private subnets. The VPN interface, management interface, and outbound interface are on a public subnet and require internet connectivity via an internet gateway. A high availability synchronization subnet (HA-sync) is a private subnet (internal only) used for the heartbeat between two instances i.e. HA. Before you deploy the security solution, complete the following prerequisite: Create an Elastic IP address and note its allocation ID. It is used as the IP address of the customer gateway on the master FortiGate firewall for VPN connections. For more information, see Elastic IP Addresses (created in the previous step) to associate with the active FortiGate firewall for each Availability Zone of the transit gateway. For more information, see Transit Gateway VPN Attachments. Download the VPN connection for the VPN connection created by navigating to the Site-to-AWS Site VPN connection about creating VPNs, see Your Site-to-Site VPN Tunnel Options for Site-to-Site VPN Connections. Confirm that your VPN subnet ACL network and the security groups associated with the FortiGate firewall allow traffic from the public IP address of the transit gateway VPN attachment. Use the following AWS CloudFormation templates. AWSTemplateFormatVersion: Description 2010-09-09: template >- AWS CloudFormation for implementing FGCP-based HA solution with two FortiGates v6.0.5 in same AZ Metadata: 'AWS::CloudFormation::Interface': ParameterGroups: - Label: default: VPC Configuration Parameters: - VPCID - VPCCIDR - VPNSubnet - HAsyncSubnet - HAsyncSubnet -HAmgmtSubnet - Label: default: FortiGate Instance Configuration Parameters: - InstanceType - CIDRForInstanceAccess - AZForInstanceAccess - AZForInstanceAccess - AZForInstanceS - KeyPair - VPNSubnetRouterIP - Label: default: IP Interface Configuration for FortiGate1VPNIP - FortiGate1VPNIP - FortiGate1EgIPress - KeyPair - VPNSubnetRouterIP - Label: default: IP Interface Configuration for FortiGate1VPNIP - FortiGate1VPNIP - FortiGate1EgIPress - KeyPair - VPNSubnetRouterIP - Label: default: IP Interface Configuration for FortiGate1VPNIP - FortiGate1EgIPress - KeyPair - VPNSubnetRouterIP - EgressSubnetRouterIP - Label: default: IP Interface Configuration for FortiGate1VPNIP - FortiGate1EgIPress - KeyPair - VPNSubnetRouterIP - EgressSubnetRouterIP - Label: default: IP Interface Configuration for FortiGate1VPNIP - FortiGate1EgIPress - KeyPair - VPNSubnetRouterIP - EgressSubnetRouterIP - EgressSubnetRouterIP - Label: default: IP Interface Configuration for FortiGate1VPNIP - FortiGate1EgIPress - KeyPair - VPNSubnetRouterIP - EgressSubnetRouterIP - Label: default: IP Interface Configuration for FortiGate1VPNIP - FortiGate1EgIPress - KeyPair - VPNSubnetRouterIP - EgressSubnetRouterIP - EgressSubnetRouter FortiGate1HAsyncIP - FortiGate1HAmgmtIP - Label: default: INTERFACE IP Configuration for FortiGate2HAmgmtIP - Label: default: INTERFACE IP Configuration for the Cluster Parameters: - ClusterVPNIP - ClusterEgressIP - Label: default: VPN configuration Parameters: - RemoteGatewayIP - CustomerGatewayIP - AllocationIDCustomerGatewayIP - PresharedKey - Label: default: B CONFIGURATION PARAMETERS: - LocalAS - RemoteAS - LocalAS to use VPCCIDR: Type: String Default: 192.168.0.0/16 Description: Provide a network CIDR for the VPC VPNSubnet: Type: Description 'AWS::EC2::Subnet::Id': Select subnet for Egress HAsyncSubnet: Type: 'AWS::EC2::Subnet::Id': Select subnet for VPN EgressSubnet: Type: Description: Select subnet for VPN EgressSubnet::Id': Select subnet for VPN EgressSubnet::Id': Select subnet for VPN Egress HAsyncSubnet::Id': Select subnet::Id': Se subnet for HAsync HAm Description: Select subnet for HAmgmt VPNSubnetRouterIP: Type: Description 'AWS::EC2::Subnet::Id': Select subnet for HAmgmt VPNSubnetRouterIP: Type: Description: >- Provide the IP address of the AWS intrinsic router (First IP of VPN Subnet) Egress Sub Description: >- Provide the IP address of the AWS intrinsic router (First IP of VPN Subnet) Egress Sub Description: >- Provide the IP address of the AWS intrinsic router (First IP of VPN Subnet) Egress Sub Description: >- Provide the IP address of the AWS intrinsic router (First IP of VPN Subnet) Egress Sub Description: >- Provide the IP address of the AWS intrinsic router (First IP of VPN Subnet) Egress Sub Description: >- Provide the IP address of the AWS intrinsic router (First IP of VPN Subnet) Egress Sub Description: >- Provide the IP address of the AWS intrinsic router (First IP of VPN Subnet) Egress Sub Description: >- Provide the IP address of the AWS intrinsic router (First IP of VPN Subnet) Egress Sub Description: >- Provide the IP address of the AWS intrinsic router (First IP of VPN Subnet) Egress Sub Description: >- Provide the IP address of the AWS intrinsic router (First IP of VPN Subnet) Egress Sub Description: >- Provide the IP address of the AWS intrinsic router (First IP of VPN Subnet) Egress Sub Description: >- Provide the IP address of the AWS intrinsic router (First IP of VPN Subnet) Egress Sub Description: >- Provide the IP address of the AWS intrinsic router (First IP of VPN Subnet) Egress Sub Description: >- Provide the IP address of the AWS intrinsic router (First IP of VPN Subnet) Egress Sub Description: >- Provide the IP address of the AWS intrinsic router (First IP of VPN Subnet) Egress Sub Description: >- Provide the IP address of the AWS intrinsic router (First IP of VPN Subnet) Egress Sub Description: >- Provide the IP address of the AWS intrinsic router (First IP of VPN Sub Provide the IP address of the AWS intrinsic router (First IP of VPN Sub Provide the IP a Provide the IP address of the AWS intrinsic router (First IP of Egress Subnet) HAmgmtSubnetRouterIP: Type: Default String: 192.168.1.11/24 Description: > AWS Intrinsic Router (First IP of HAmgmt Subnet) FortiGate 1 vpr interface (IP of VPN Subnet) FortiGate2VPNIP : Type: Default String : 192.168.1.12/24 Description: & gt;- Provide an IP address in the form of CIDR for the outgoing interface of FortiGate 1 (IP of Egress Subnet) FortiGate2EgressIP: Type: String Default: 192.168.2.12/24 Description: >- Provide IP address in CIDR form for ha synchronization interface 1 (IP of HAsync Subnet) FortiGate 2 ha synchronization interface (IP of HAsync Subnet) FortiGate 1 ha synchronization interface (IP of HAsync Subnet) FortiGate 2 ha synchronization interface (I form of CIDR for management interface (IP of HAmgmt Subnet) FortiGate 1 (IP of HAmgmt Subnet) FortiGate 2HAmgmtIP: Type: Default String: 192.192.00168.4.12/24 Description: >- Provide the IP address in the CIDR form for the FortiGate 2 ha management interface (IP of HAmgmt Subnet) ClusterVPNIP: Type: Default String: 192.168.1.13/24 Description: >- IP address in the form CIDR for Cluster vpn interface (IP of VPN Subnet) ClusterEgressIP: Type: Default String: 192.168.2.13/24 Description: >- Provide IP address in CIDR form for exit interface of Cluster (IP of Egress Subnet) Instance Type: Default String: c5.xlarge Description: Select instance type for FortiGates AllowedValues: - c4.xlarge - c4.2xlarge - c4.2xlarge - c4.2xlarge - c4.2xlarge - c5.2xlarge - c4.2xlarge - c5.2xlarge - c5.2 keypair for associate with FortiGates AZForInstances: Type: 'AWS::EC2::AvailabilityZone::Name' Description: Enter the public ip of VPN endpoint in AWS CustomerGatewayIP: Type: String Description: Enter the Router ID to be used for BGP PresharedKey: Type: String Description: Enter the Local ASN for BGP RemoteAS: Type Remote PeerIP: Type: String Description: Enter the network to be advertised via BGP Netmask: Type: String Description: Enter network to be advertised via BGPIDCustomerGatewayIP Allocation: Type: String Description: Enter id for CGW Allocation Mapping: RegionMap: ap-northeast-1: fgtami: ami-0b7ea934fc0a83064 ap-northeast-1: fgtami: ami-0b1d312dc1c41030e eu-central-1: fgtami: ami-0b1d312dc1c41030e eu-c fgtami: ami-0a4498f9a72cf2537 eu-west-1: fgtami: ami-0c1f71f51fb106a31 eu-west -2: fgtami: ami-0d333d8821f37aa36 eu-west-2: fgtami: ami-0a97f4194a0515b21 sa-east-1: fgtami: ami-0a97f4194a0515b21 sa-east-1: fgtami: ami-0a33d8821f37aa36 eu-west-2: fgtami: ami-0a97f4194a0515b21 sa-east-1: fgtami ami-00a5f7f2848b21194 Resource: InstanceRole: Type: 'AWS::IAM::Role' Property: AssumeRolePolicyDocument: Version: 2012-10-17 Statement: - Effect: Allow Principal: Services: - ec2.amazonaws.com: - 'sts:AssumeRole' Path: / Policy: - PolicyName: ApplicationPolicy PolicyDocument: Version: 2012-10-17 Statement: - Effect: Allow Principal: Services: - ec2.amazonaws.com: - 'sts:AssumeRole' Path: / Policy: - PolicyName: ApplicationPolicyDocument: Version: 2012-10-17 Statement: - Effect: Allow Principal: Services: - ec2.amazonaws.com: - 'sts:AssumeRole' Path: / Policy: - PolicyName: ApplicationPolicyDocument: Version: 2012-10-17 Statement: - Effect: Allow Principal: Services: - ec2.amazonaws.com: - 'sts:AssumeRole' Path: / Policy: - PolicyName: ApplicationPolicyDocument: Version: 2012-10-17 Statement: - Effect: Allow Principal: Services: - ec2.amazonaws.com: - 'sts:AssumeRole' Path: / Policy: - PolicyName: ApplicationPolicyDocument: Version: 2012-10-17 Statement: - Effect: Allow Principal: Services: - ec2.amazonaws.com: - 'sts:AssumeRole' Path: / Policy: - PolicyName: ApplicationPolicyDocument: Version: 2012-10-17 Statement: - Effect: Allow Principal: Services: - 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Ref VPCCIDR FortiGateSecGrpHArule: DependsOn: FortiGateSecGrp Type: 'AWS::EC2::SecurityGroupIngress' Properties: GroupId: ! Ref FortiGateSecGrp Description: Allow FGTs to access each other IpProtocol: '-1' FromPort: '0' ToPort: '65535' SourceSecurityGroupId:! Ref FortiGateSecGrp Egt1: Type: Property 'AWS::EC2::Instance': ImageId: ! FindInMap - RegionMap - ! Ref 'AWS::Region' - fgtami InstanceType: ! Ref InstanceType IamInstanceProfile: ! Ref InstanceProfile KeyName: ! Ref fgt1eni1 DeviceIndex: '0' - NetworkInterfaceId: ! Ref fgt1eni2 DeviceIndex: '2' - NetworkInterfaceId: ! Ref fgt1eni3 DeviceIndex: '3' Tags: - Key: Name Value: ! Join -' -- - ! Ref 'AWS::StackName' - '-FortiGate1' UserData: ! Base64 'Fn::Join': - |+ - - global configuration settings - set enable allow-subnet-overlap - end - system interface configuration - edit port1 - set alias vpn set static mode - ! Sub 'set ip \${ClusterVPNIP}' - set allowaccess ping - set mtu-override enable - set mtu-override enabl allowaccess ping - set mtu-override enable - set mtu 9001 - next - edit port4 - set aka hamgmt - set static mode - ! Sub 'set ip \${FortiGate1HAmgmtIP}' - set mtu 9001 - next - end - config static router - edit 1 - ! Sub 'set etc\${RemoteGatewayIP}' - set device port1 - ! Sub 'set gateway \${VPNSubnetRouterIP}' - next - edit 2 - set gort perangkat2 - ! 'set gateway \${EgressSubnetRouterIP}' - next - end - configuration firewall policy - - 1 - set outbound-all name - set schedule always - set service ALL - set logtraffic all - set nat enable - next - end - config system ha - set group-name group1 - set mode a-p - set hbdev port3 50 - set session-pickup enable - set ha-mgmt-interface - edit 1 - set interface port4 - ! Sub 'set gateway \${HAmgmtSubnetRouterIP}' - next - end - set override disable - set priority 255 - set unicast-hb enable - ! Sub - 'set unicast-hb-peerip \${peerip}' - peerip: ! Pick -- '0'- ! Separate -- -! Ref FortiGate2HAsyncIP - end- ipsec vpn configuration phase1-interface port1 - ! Sub 'set local-gw \${ClusterVPNIP}' - set dhgrp 2 - attachment dhgrp 14 - proposal set aes128-sha1 - add proposal aes128-sha256 - add proposal aes256-sha1 - add propasal aes256-sha256 - set keylife 28800 - ! Sub 'set remote-gw \${RemoteGatewayIP}' - ! Sub 'set psksecret \${PresharedKey}' - next - end - config vpn ipsec phase2-interface - edit tunnel0-tgw - set phase1name tunnel0-tgw - set proposal aes128-sha1 - add proposal aes128-sha256 - add proposal aes256-sha1 add proposal aes256-sha256 - set dharp 2 - set dharp 2 - set dharp 2 - set dharp 2 - set dharp 14 - set proceerIP} 255.255.255' - set allowaccess ping - set type tunnel - set set snmp-index 6 - set interface port1 - next - end - config router bgp - ! Sub 'set as \${RemoteAs}' - ! Sub 'set router-id \${RemoteAs}' - ! 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Ref fgt2eni3 DeviceIndex: '1' - NetworkInterfaceId: ! Ref fgt2eni3 DeviceIndex: '1' - NetworkInterfaceId: ! Ref fgt2eni3 DeviceIndex: '1' - NetworkInterfaceId: ! Ref fgt2eni3 DeviceIndex: '2' - Netw FortiGate2' UserData: ! Base64 'Fn::Join': - |+ - - sistem konfigurasi global - atur nama host Fgt2 - atur adminitimeout 60 - akhir - pengaturan sistem konfigurasi - edit port1 - atur alias vpn - atur mode statis - ! Sub 'set ip \${FortiGate2VPNIP}' - set allowaccess ping https ssh fgfm - next - edit port2 - set alias egress - set mode statis - ! Sub 'set ip \${FortiGate2EgressIP}' - set allowaccess ping - set mtu-override enable - set mtu 9001 - next - edit port3 - set mode statis - ! Sub 'set ip \${FortiGate2HAsyncIP}' - set allowaccess ping - set mtu 9001 - next - edit port3 - set mtu 9001 - next - edit port3 - set mode statis - ! Sub 'set ip \${FortiGate2HAsyncIP}' - set allowaccess ping - set mtu 9001 - next - edit port3 - set mtu 9001 - next - edit port3 - set mode statis - ! 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Sub 'set gateway \${HAmgmtSubnetRouterIP}' - next - end - set override disable - set priority 1 - set unicast-hb enable - ! Sub - 'set unicast-hb-peerip \${peerip}' - peerip? + Pilih - '0' - ! Pisahkan - / - ! Ref FortiGate1HAsyncIP end - ipsec vpn configuration phase1-interface - edit tunnel0-tgw - set the interface port1 - ! Sub 'set local-gw \${ClusterVPNIP}' - set dhgrp 2 - add dhgrp 14 - set proposal aes128-sha1 - proposal aes128-sha256 - add proposal aes256-sha1 - add proposal aes256-sha1 - add proposal aes128-sha1 - add proposal aes128-sha remote-ip \${RemotePeerIP} 255.255.255.252: - set snmp-index 6 - set interface port1 - next - end - config router bgp - ! Sub 'set router-id \${CustomerGatewayIP}' - ! Sub 'set remote-as \${RemotePeerIP}' - ! Sub 'set remote-as \${RemotePeerIP}' - ! Sub 'set router-id \${CustomerGatewayIP}' - ! Sub 'set router bgp - ! Sub 'set router-id \${CustomerGatewayIP}' - ! Sub 'set router-id \${RemotePeerIP}' - ! Sub 'set router bgp - ! Sub 'set router bgp - ! Sub 'set router-id \${CustomerGatewayIP}' - ! Sub 'set router-id \${Cu \${RemotePeerIP}' - set capability-default-originate function - end - config router bgp - network configuration - edit 1 - ! Sub 'set prefix \${AdvertiseNetwork} + next - end - config router bgp - config router bgp - network configuration - edit 1 - ! Sub 'set prefix \${Netmask}' - next - end - config router bgp - network configuration - edit 1 - ! Sub 'set prefix \${Netmask}' - next - end - config router bgp - config router bgp - network configuration - edit 1 - ! Sub 'set prefix \${Netmask}' - next - end - config router bgp - network configuration - edit 1 - ! Sub 'set prefix \${Netmask}' - next - end - config router bgp - network configuration - edit 1 - ! Sub 'set prefix \${Netmask}' - next - end - config router bgp - network configuration - edit 1 - ! Sub 'set prefix \${Netmask}' - next - end - config router bgp - network configuration - edit 1 - ! 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Sub 'set prefix \${Netmask}' - next - end - config router bgp - network configuration - end - config router bgp - network config router bgp end - config router prefix-list - edit default_route - config rule - edit 1 - set prefix 0.0.0 0.0 0.0.0.0 - next - end - configuration firewall policy - edit 1 - set forwardvpn name - set srcintf port1 - set match-ip-address default_route - next - end set dstintf tunnel0-tgw srcaddr all - set dstaddr all - set action accept - set schedule always - set service ALL - set fsso disable - set name returnypn - set srcintf tunnel0-tgw - set dstintf port1 - set schedule always - set all services - set

fsso disable - set nat enable - next - end - configuration firewall policy - edit 3 - set awsinternet name - set scintf tunnel0-tgw - set the always schedule - set the ALL service - set fsso disable - set logtraffic all - set av-profile defaults - set the default ips-sensor - set the default application-list - set ssl-ssh-profile inspection-certificate - set the default dnsfilter profile - set nat enable - next - end fgt1eni0: Type: 'AWS::EC2::NetworkInterface' Properties: Description: port1 GroupSet: - ! Ref FortiGateSecGrp SourceDestCheck: SubnetId 'false': ! Ref VPNSubnet Tags: - Key: Value Name:! Join -' -- ! Ref 'AWS::StackName' - '-fgt1eni0' - Key: Value eth0 PrivateIpAddresse:- PrivateIpAddresse:- PrivateIpAddress:! Select - '0' - - - / - ! Ref FortiGateSecGrp SourceDestCheck: SubnetId 'false': ! Ref VPNSubnet Tags: - Key: Value Name:! Join -' -- - ! Ref 'AWS::StackName' - '-fgt2eni0' - Key: Interface Value: eth0 PrivateIpAddress: ! Pick -- '0'- ! Separate -- - ! Ref FortiGate2VPNIP Fgt1EIP: Type: 'AWS::EC2::EIP': Domain: vpc DependsOn: Fgt1 Fgt2EIP: Type: 'AWS::EC Property: Domain: vpc DependsOn: Fgt2 ClusterEgressEIP: Type: 'AWS::EC2::EIPAssociation' Property: AlokasilDCustomerGatewayIP NetworkInterfaceId: ! Ref fgt1eni0 PrivateIpAddress: ! Pick -- '0'- ! Separate -- - ! Ref ClusterVPNIP fgt1eni1: Type: Properties 'AWS::EC2::NetworkInterface': Description: port2 GroupSet: - ! Ref FortiGateSecGrp SourceDestCheck: SubnetId 'false': ! Ref EgressSubnet Tags: - Key: Value Name:! Join -' -- ! Ref 'AWS::StackName' - '-fgt1eni1' PrivateIpAddresses: - PrivateIpAddresses: - PrivateIpAddress: ! Pick -- '0'- ! Separate -- - ! Ref FortiGate1EgressIP Primary: 'true' - PrivateIpAddress: ! Pick -- '! Ref ClusterEgressIP Primary: 'false' fgt2eni1: Type: 'AWS::EC2::NetworkInterface' Property: Description: port2 GroupSet: -! Ref FortiGateSecGrp SourceDestCheck: SubnetId 'false': ! Ref EgressSubnet Tags: - Key: Value Name:! Join -' -- ! Ref 'AWS::StackName' - '-fgt2eni1' PrivateIpAddress: ! Pick -- '0'- ! Separate -- - ! Ref FortiGate2EgressIP fgt1eni2: Type: Properties 'AWS::EC2::NetworkInterface': Description: port3 GroupSet: - ! Ref FortiGate2EgressIP fgt1eni2: Type: Properties 'AWS::EC2::NetworkInterface': Description: port3 GroupSet: - ! Ref FortiGate2EgressIP fgt1eni2: Type: Properties 'AWS::EC2::NetworkInterface': Description: port3 GroupSet: - ! Ref FortiGate2EgressIP fgt1eni2: Type: Properties 'AWS::EC2::NetworkInterface': Description: port3 GroupSet: - ! Ref FortiGate2EgressIP fgt1eni2: Type: Properties 'AWS::EC2::NetworkInterface': Description: port3 GroupSet: - ! Ref FortiGate2EgressIP fgt1eni2: Type: Properties 'AWS::EC2::NetworkInterface': Description: port3 GroupSet: - ! Ref FortiGate2EgressIP fgt1eni2: Type: Properties 'AWS::EC2::NetworkInterface': Description: port3 GroupSet: - ! Ref FortiGate2EgressIP fgt1eni2: Type: Properties 'AWS::EC2::NetworkInterface': Description: port3 GroupSet: - ! 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Ref FortiGate2ecGrp SourceDestCheck: SubnetId 'false': ! Ref HAmgmtSubnet Tags: - Key: Value Name:! Join -' -- - ! Ref 'AWS::StackName' - '-fgt1eni3' PrivatelpAddress: ! Pick -- '0'- ! Separate -- - ! Ref FortiGate1HAmgmtIP fgt2eni2: Type: 'AWS::EC2::NetworkInterface' Property: Description: port3 GroupSet: - ! Ref HAsyncSubnet Tags: - Key: Value Name:! Join -' -- - ! Ref 'AWS::StackName' - '-fgt2eni2' PrivateIpAddress: ! Pick --'0'- ! Separate -- - ! Ref FortiGate2HAsyncIP fgt2eni3: Type: 'AWS::EC2::NetworkInterface' Property: Description: port4 GroupSet:- ! Ref FortiGate2EAmgmtIP Fgt1EIPASSOCIATION: Fgt1EIPASSOCIATION: Fgt1EIPASSOCIATION: Property 'AWS::EC2::EIPAssociation': Alokasild: ! GetAtt - Fgt1EIP - Network AllocationInterfaceId: ! Ref fgt1eni3 PrivateIpAddress: ! Pick -- - ! Ref FortiGate1HAmgmtIP DependsOn: Fgt1EIP Fgt2EIPASSOCIATION: Type: Property 'AWS::EC2::EIPAssociation': Alokasild: ! GetAtt - Fgt1EIP - Network AllocationInterfaceId: ! Ref fgt1eni3 PrivateIpAddress: ! 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Description: Username for the FortiGates FortiGates FortiGates FortiGates I Description: Login URL for HAmgmt fortiGate 1 FortiGate2LoginURL interface: Value: ! Join - " - 'https://' - ! Ref Fgt2EIP Description: The login URL for the HAmgmt fortiGate 2 template instance in ha pairs per Availability Zone. Configures the required firewall policies. Configure VPN and BGP on each of your FortiGate firewalls. To implement it, follow these steps: Launch the following template using AWS CloudFormation in the console. Provide the appropriate parameters necessary to configuration parts: FortiGate firewall. There are five configuration parts: FortiGate firewall. with the subnet information on which the FortiGate firewall is launched. CloudFormation VPC Settings Configuration FortiGate 1 and FortiGate 2. CloudFormation Active Fortigate Settings CloudFormation Passive Fortigate Settings CloudFormation Cluster VPN IP address and cluster outgoing IP address are configured in the FortiGate firewall as secondary IP addresses on VPNs and the interface exits appropriately. They are required to achieve high availability (HA). In the event of a failure, this secondary IP address is moved to the standby node via an API call initiated from FortiOS on its management interface. Provide cluster VPN IP address and cluster outgoing IP address for Fortinet. CLOUDFormation Fortigate firewall to create a VPN connection to a transit gateway: Remote gateway IP address: The AWS public IP address for a VPN connection created at the transit gateway. Customer gateway IP address: The public IP address (Elastic IP address) to be used in the FortiGate firewall interface stops the VPN. Elastic IP address allocation ID: The ID used for ip address of the gateway. IPsec pre-divide key. Enter a value for the VPN parameter of the VPN configuration file you downloaded earlier, based on the following screenshot. CloudFormation VPN settings Examples of how you can retrieve the BGP parameter from the VPN configuration file are provided in the screenshot below. parameters to create a relationship between the FortiGate firewall and the transit gateway: Autonomous System Number Local (customer) Autonomous System Number also provide CIDR for VPC Security Hub along with netmask, to advertise with this VPN attachment to the transit gateway. BGP CloudFormation. Sign in to the FortiGate1 instance using its administrator's public IP address and instance ID as a password. Change the default initial password. By default, templates launch FortiGate1 as active and FortiGate2 as passive. Confirm that the FortiGate firewall has synchronized its configuration, and that their HA health status is OK. Verify that the tunnel interface is up and the CIDR of the talking VPC is learned through BGP on the FortiGate firewall. Configure the required route entries in the transit gateway routes table. This allows VPC on different spoke accounts to reach the internet through security solutions hosted on hub accounts. To do this, create the necessary associations and propagations. In the VPC console, in the left navigation pane, select Gateway Transit Route Table, Hub Route Table. In the bottom pane, select Associations, and create an association. Select one of the VPN attachments you created with the Active FortiGate instance in the previous section. Repeat this process for all VPN attachments that you have created with other active FortiGate firewalls. In the bottom pane, under the same routing table, select Propagation. Create a docking route for each existing VPC attachment. In the VPC attachments you created earlier. Repeat this process for all remaining VPC attachments that you create. Below the same route table, create a docking route for each VPN attachment. Summary In this post, We introduce solutions using AWS Transit Gateway to check outbound Internet traffic and filter it according to your security policy requirements. You achieve this by creating the following resources: A transit gateway that centralizes communication between the talking VPC and the VPC Security Hub hosting security equipment that checks outgoing internet traffic inspection. You can deploy similar security solutions from several other partners from the AWS Marketplace, such as Palo Alto Networks, Check Point, and Cisco. Additional Resources Other ISV Product Configuration Templates can be found here Palo Alto Networks, Check Point, and Cisco. Additional Resources Other ISV Product Configuration, and lead implementation projects to customers who ensure their success on AWS. Prior to joining AWS, he had worked on several research projects to customers who ensure their success on AWS. Prior to joining from New York University. Abdul Kittana is a Senior Security Architect with AWS Professional Services. He has been part of AWS for over 2 years, and before joining AWS, he was a security consultant for various vendors and security-focused lawmakers for more than 12 years. He holds a BSC in Computer Engineering from Eastern Mediterranean University. University.

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