



Azure Landing Zone

Technical proposition

BT Enterprise Virtual WAN solution

Internal only. Version 1.0. BT Enterprise Digital Solutions



BT Enterprise Cloud Framework

Strategy and Vision

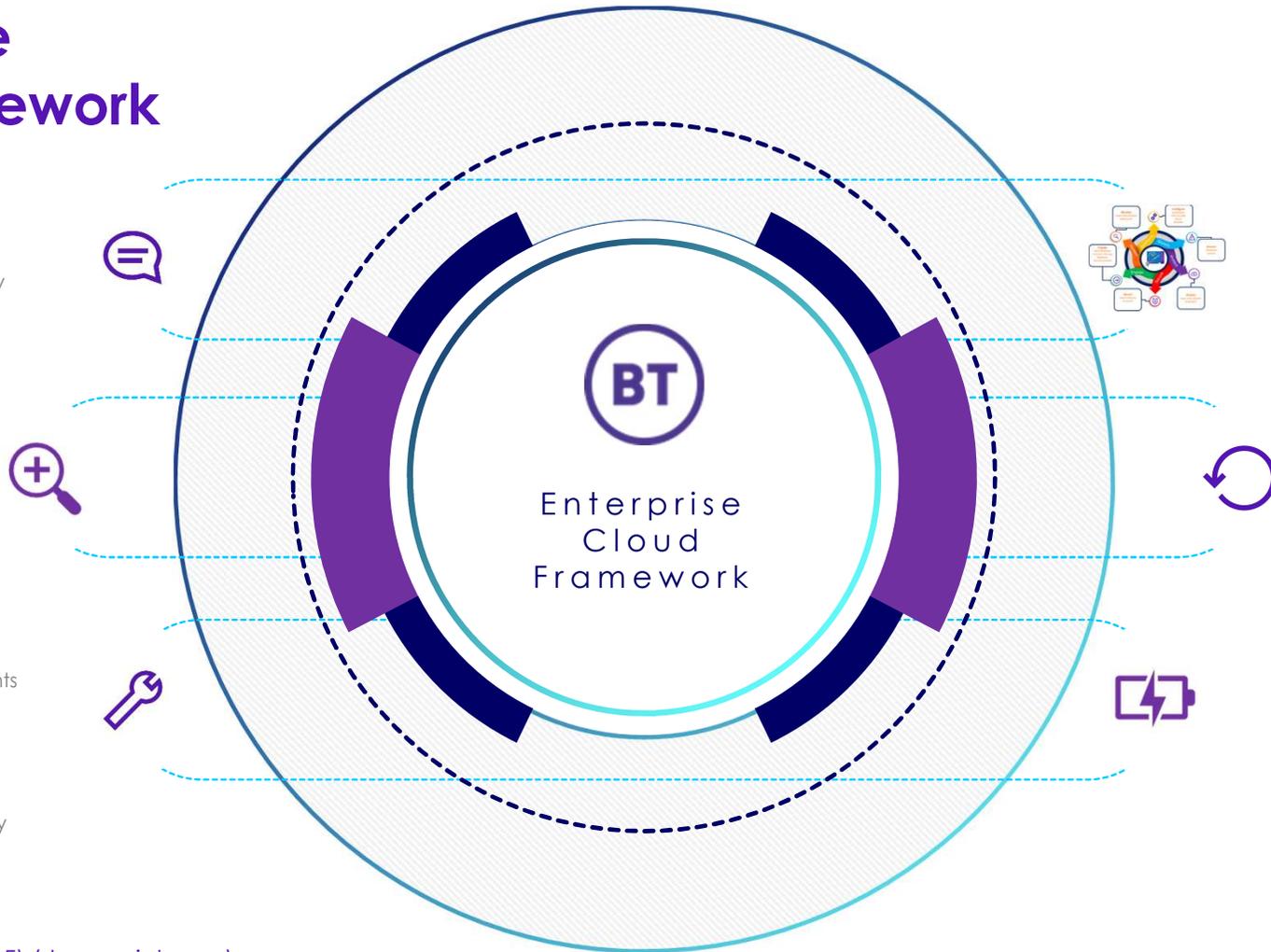
A series of workshops focused on educating you on the value of the Cloud, reviewing challenges faced by the business and assessing how this can be positively impacted by a Cloud transition.

Discovery and Assess

Review, assess and understand how you use application services across the organisation. With particular emphasis on application services / interdependencies, current investment and operational skills.

Design

Design focuses on ensuring all elements of the transition are reviewed and mapped into a series of recommendations and services. The services are then mapped against Digital Solutions to provide a costed solution based on the best technology for the service.



CEF

The Cloud Engagement Framework ensures all aspect of a solution design have been taken into consideration.

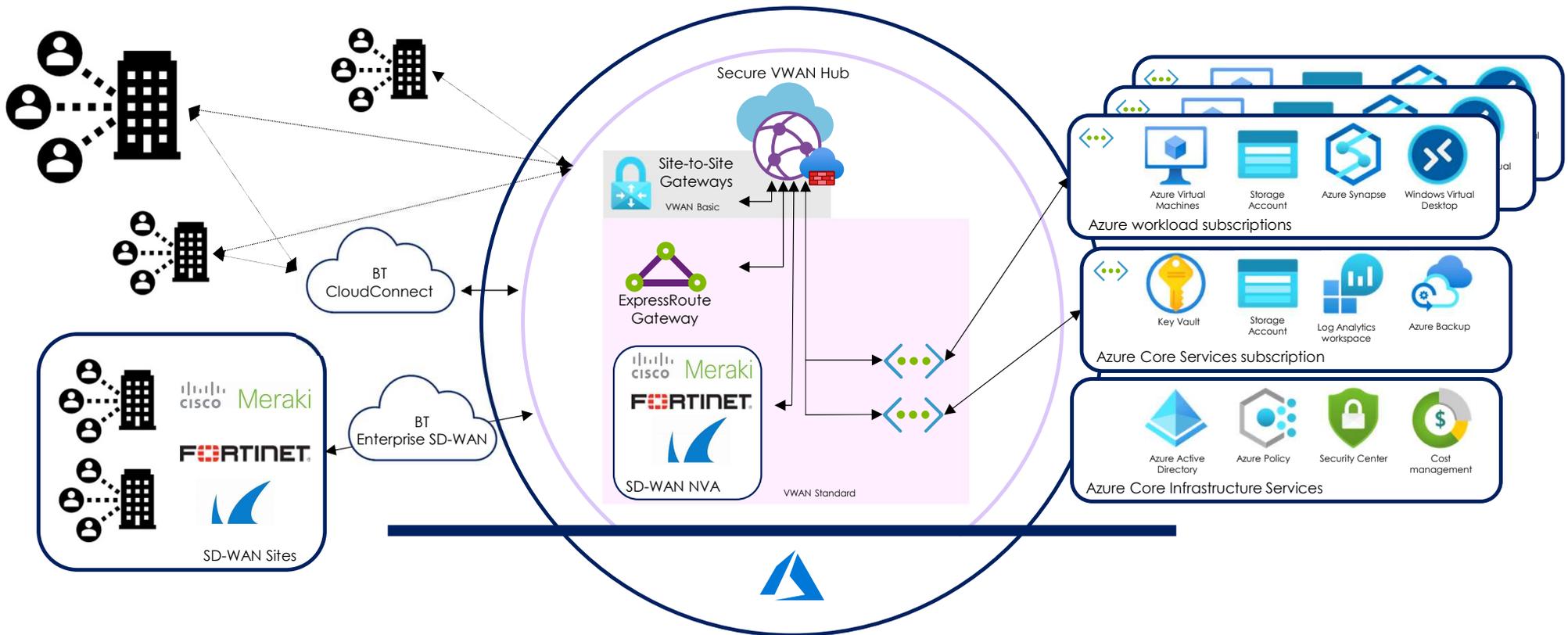
Transform

Be it an individual application or a series of application services, our transform phase handles all elements of the transformation process and ensures the relevant stakeholders are full engaged.

Optimise

It's imperative to ensure application services transformed into the Cloud are maintained, monitored and reviewed on a regular basis. Our optimisation services allow you to automate many of these processes and allow internal resources to be reallocated.

Virtual WAN landing zone



NVA: Network Virtual Appliance





Deployed as Infrastructure as Code

```
wan.tf - caf-landingzones-terraform - Visual Studio Code
...  wan.tf  X
landingzones > landingzone_caf_foundations > blueprint_foundations_wan > wan.tf
23 #####
24 ###          Virtual WAN          ###
25 #####
26
27 resource "azurerm_virtual_wan" "vwan" {
28     name                = var.vwan_settings.vwan_name
29     resource_group_name = azurerm_resource_group.rg_vwan.name
30     location             = var.location
31     type                 = var.vwan_settings.type
32     office365_local_breakout_category = var.vwan_settings.office365_local_breakout_category
33     disable_vpn_encryption = var.vwan_settings.disable_vpn_encryption
34     allow_branch_to_branch_traffic = var.vwan_settings.allow_branch_to_branch_traffic
35     allow_vnet_to_vnet_traffic = var.vwan_settings.allow_vnet_to_vnet_traffic
36     tags                 = local.tags
37 }
38
39 #####
40 ###          Virtual WAN Hub        ###
41 #####
42
43 resource "azurerm_virtual_hub" "vwan_hub" {
44     name                = var.vwan_settings.vwan_hub_name
45     resource_group_name = azurerm_resource_group.rg_vwan.name
46     location             = var.location
47     virtual_wan_id      = azurerm_virtual_wan.vwan.id
48     address_prefix      = var.vwan_settings.address_prefix
49     tags                 = local.tags
50 }
51
52 #####
53 ###          Virtual Network        ###
54 #####
55
56 resource "azurerm_virtual_network" "vnet" {
57     name                = var.vwan_settings.vwan_vnet_name
58     address_space       = var.vwan_settings.vwan_vnet_address_space
59     location             = var.location
60     resource_group_name = azurerm_resource_group.rg_vwan.name
61 }
62
```

What is the Microsoft Virtual WAN solution?

What is Microsoft Virtual WAN

Azure Virtual WAN is a networking service that brings many networking, security, and routing functionalities together to provide a single operational interface. These functionalities include:

- Branch connectivity (via connectivity automation from Virtual WAN Partner devices such as SD-WAN or VPN CPE)
- Site-to-site VPN connectivity
- Remote user VPN (Point-to-site) connectivity
- Private (ExpressRoute) connectivity
- ExpressRoute with encrypted VPN connection
- Intra-cloud connectivity (transitive connectivity for virtual networks)
- Routing
- Azure Firewall
- Encryption for private connectivity

