# Analysis

## ExpressRoute

* Design and implement ExpressRoute
* Design and implement ExpressRoute Global Reach
* Design and implement ExpressRoute FastPath
* Troubleshoot ExpressRoute connection issues

1. Pricing
2. Options
3. How should you configure
4. Minimum number of Express Route circuits
5. Order / how do you connect sth with sth using ExpressRoute
6. Diffirence : ExpressRoute -vs- etc etc
7. Comble needs : link sth to sth / how

## NAT Gateway

* Describe the Azure NAT Gateway service.
* Recognize scenarios where Azure NAT Gateway is applicable.
* Perform basic deployment of the Azure NAT Gateway service.

1. Choose best tool for specyfic needs
2. What is supported

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| --- | --- |
| ExpressRoute | ExpressRoute lets you extend your on-premises networks into the Microsoft cloud over a   * private connection * to Microsoft Azure * to Microsoft 365. * from an any-to-any (IP VPN) network, * from a point-to-point Ethernet network, * from a virtual cross-connection through a connectivity provider at a colocation facility. * As no public offer more reliability, faster speeds, consistent latencies, and higher security. |
| Options   * ExpressRoute FastPath * ExpressRoute Global Reach * ExpressRoute Direct * ExpressRoute Local   Provide reliable and secure connectivity to Azure services.-vs-Connect your network to the public internet. |  |
| SKU  PRICING  Site-to-site vs point-to-site |  |
| ExpressRoute gateway |  |
| ExpressRoute circuit |  |
| peering for an ExpressRoute |  |
| ExpressRoute circuit to a virtual network |  |
| ExpressRoute circuit to a virtual network |  |
| Improve data path performance between networks with ExpressRoute FastPath |  |
| connection issues   * properties |  |

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| NAT Gateway | Network Address Translation  used for decades for mapping local IP addresses to public addresses. |
| Problem solves | resolving connectivity problems |
| Can’t | can’t use Azure NAT Gateway to configure inbound connections handling. |
| Can |  |

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