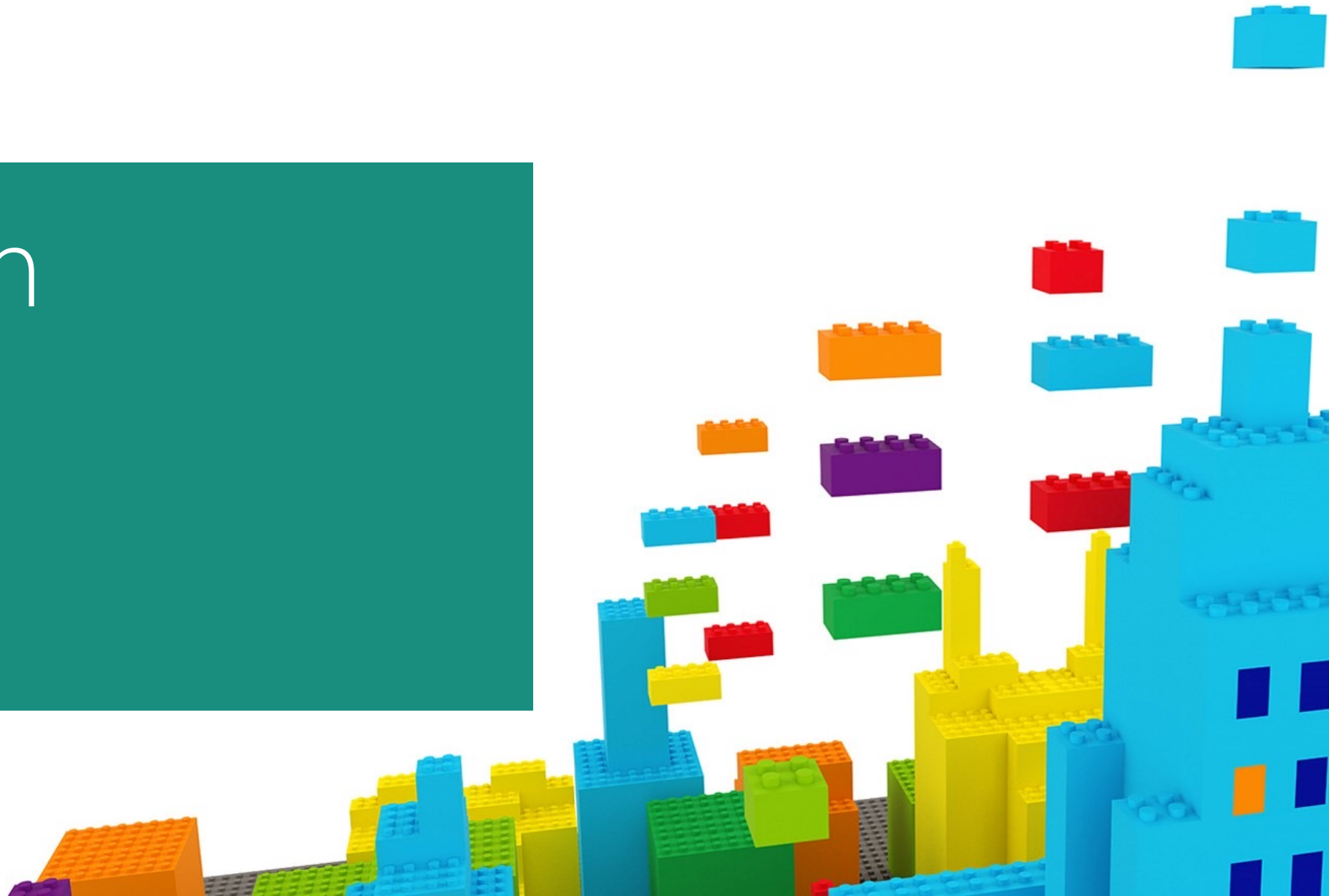# Session 12
Azure networking

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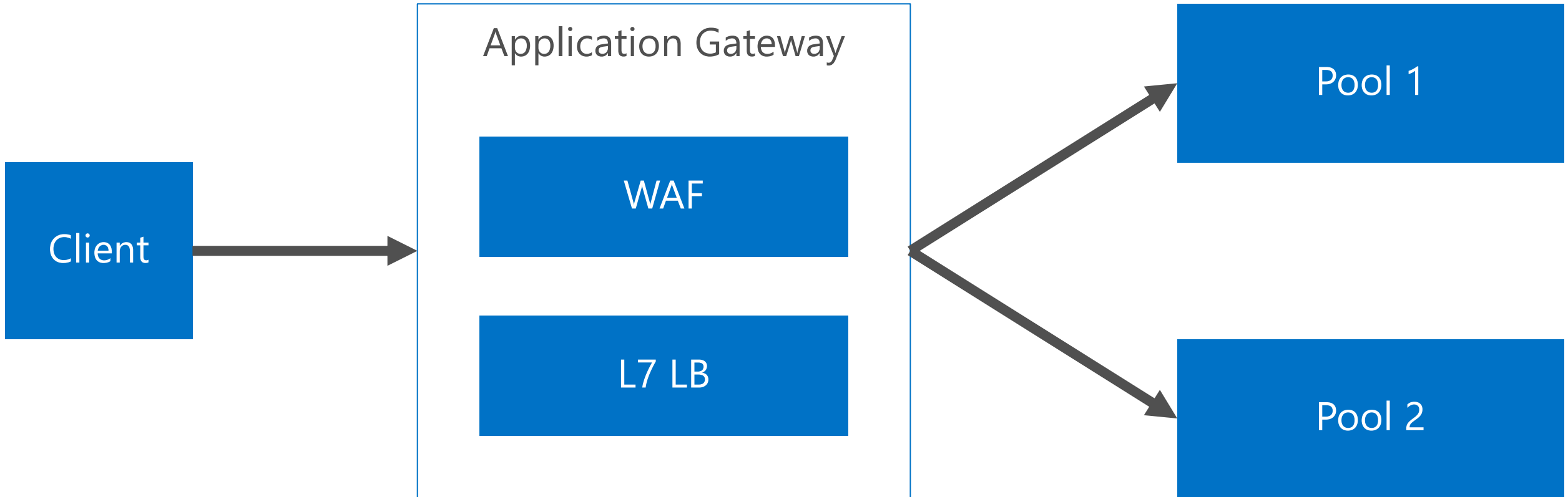
Housekeeping

❏ Please keep yourself muted unless you are participating in the conversation, so we can have a more clear recording.

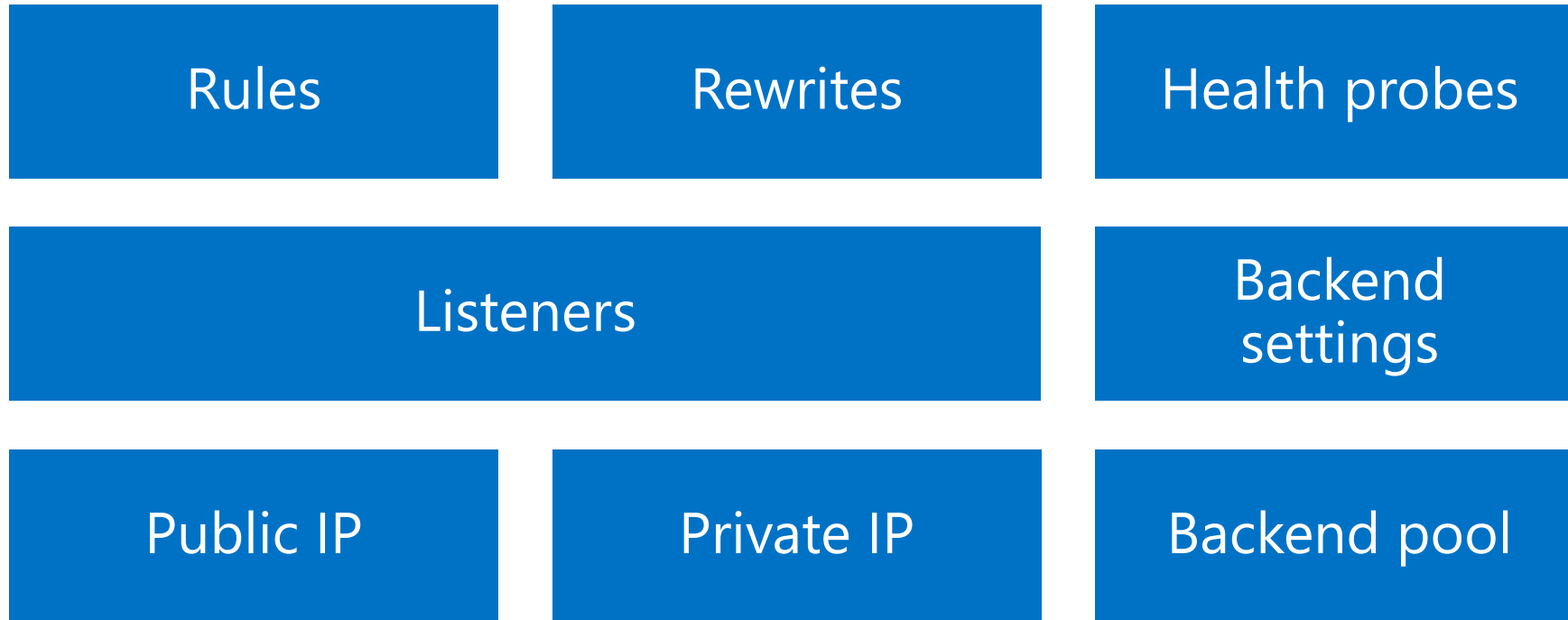❏ If you have questions – don't hesitate and ask.

High level schema

Components schema

Rules	Rewrites	Health probes

Listeners		Backend settings

Public IP	Private IP	Backend pool

V1

- URL-based routing
- Multiple-site hosting
- Traffic redirection
- Web Application Firewall
- TLS/SSL termination
- End-to-end TLS encryption
- Session affinity
- Custom error pages
- WebSocket support
- HTTP/2 support
- Connection draining

V2

- Autoscaling
- Zone redundancy
- Static VIP
- AKS Ingress controller
- Azure Key Vault integration
- Rewrite HTTP(S) headers
- Mutual Authentication (mTLS)
- Private Link support
- WAF custom rules
- WAF policy associations

DEMO

Questions?

Homework

Do (1)

Create infrastructure templates using <u>ARM</u>, <u>Bicep</u> and <u>Terraform</u>.

Do (2)

Template that can creates VNET with subnets.

Input parameters:

Region
VNet name
VNet address space
Array of subnets (names and address spaces)

Do (3)

Template that can creates NSG.

Input parameters:

Region
Name
Array of rules

Do (4)

Template that assigns NSG to VNet subnet.

Input parameters:

NSG name
VNet and subnet name

Do (5)

Template that creates VMs.

Input parameters:

VM name
VM image
VM pricing tier
VM disk pricing tier
VNet and subnet name

Do (6)

Template that creates Application Gateway.

Input parameters:

Region
Name
Array of endpoints
WAF rules

Deadline

Recommended – by the end of the day 02.09.2022

Maximum – by the end of the day 09.09.2022