


Software Defined Networking: PaaS-only

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When you implement a platform as a service (PaaS) resource, the deployment process automatically creates an assumed underlying network with a limited number of controls over that network, including load balancing, port blocking, and connections to other PaaS services.

In Azure, several PaaS resource types can be [deployed into](#) or [connected to](#) a virtual network, allowing these resources to integrate with your existing virtual networking infrastructure. Other services, such as [App Service Environments](#), [Azure Kubernetes Services](#), and [Service Fabric](#) must be deployed within virtual network. However, in many cases a PaaS only networking architecture, relying only on the default native networking capabilities provided by PaaS resources, is sufficient to meet a workload's connectivity and traffic management requirements.

If you are considering a PaaS only networking architecture, be sure you validate that the required assumptions align with your requirements.

PaaS-only assumptions

Deploying a PaaS-only networking architecture assumes the following:

- The application being deployed is a standalone application or depends only on other PaaS resources that do not require a virtual network.
- Your IT operations teams can update their tools, training, and processes to support management, configuration, and deployment of standalone PaaS applications.
- The PaaS application is not part of a broader cloud migration effort that will include IaaS resources.

These assumptions are minimum qualifiers aligned to deploying a PaaS-only network. While this approach may align with the requirements of a single application deployment, each cloud adoption team should consider these long-term questions:

- Will this deployment expand in scope or scale to require access to other non-PaaS resources?
- Are other PaaS deployments planned beyond the current solution?
- Does the organization have plans for other future cloud migrations?

The answers to these questions would not preclude a team from choosing a PaaS only option but should be considered before making a final decision.