

# Infrastructure as a Service

Infrastructure as a Service, or IaaS is a service offering by most cloud providers that provides *virtual machines* and the accompanying infrastructure as a service. This lecture will discuss the details of how an IaaS service is built.

Virtual machines

**Virtualization technology**

**Typical instance types**

**Automation**

**Virtual machine pools**

Storage

**Local storage**

**Block storage**

**Network file systems**

**Object storage**

Network

**Firewalling**

**Network load balancers**

**Private networks**

**DNS**

**VPNs, private interconnects, and routing services**

Monitoring

Automation