Enterprise Security Considerations for the Cloud – Containers, Perimeters, and Access Controls

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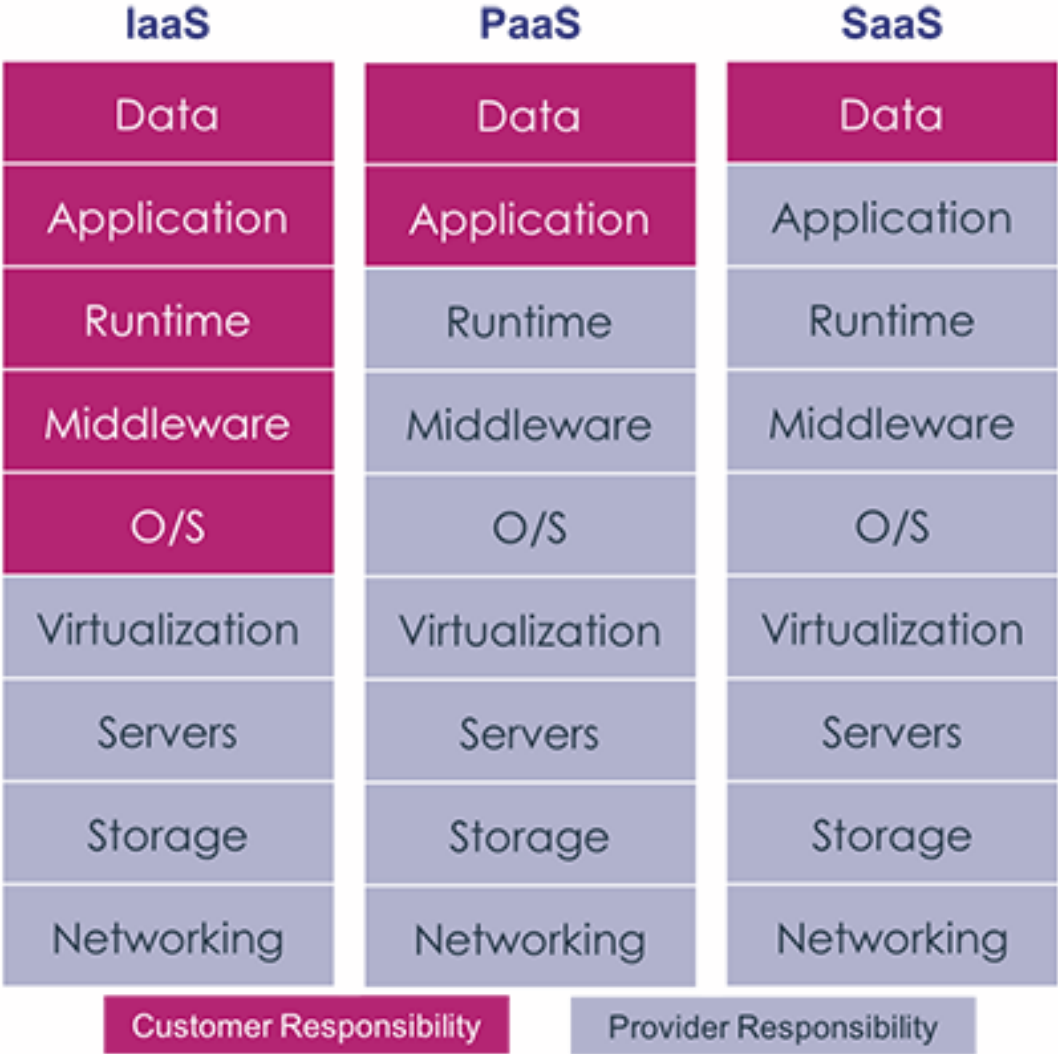
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Agenda

1. Cloud Security
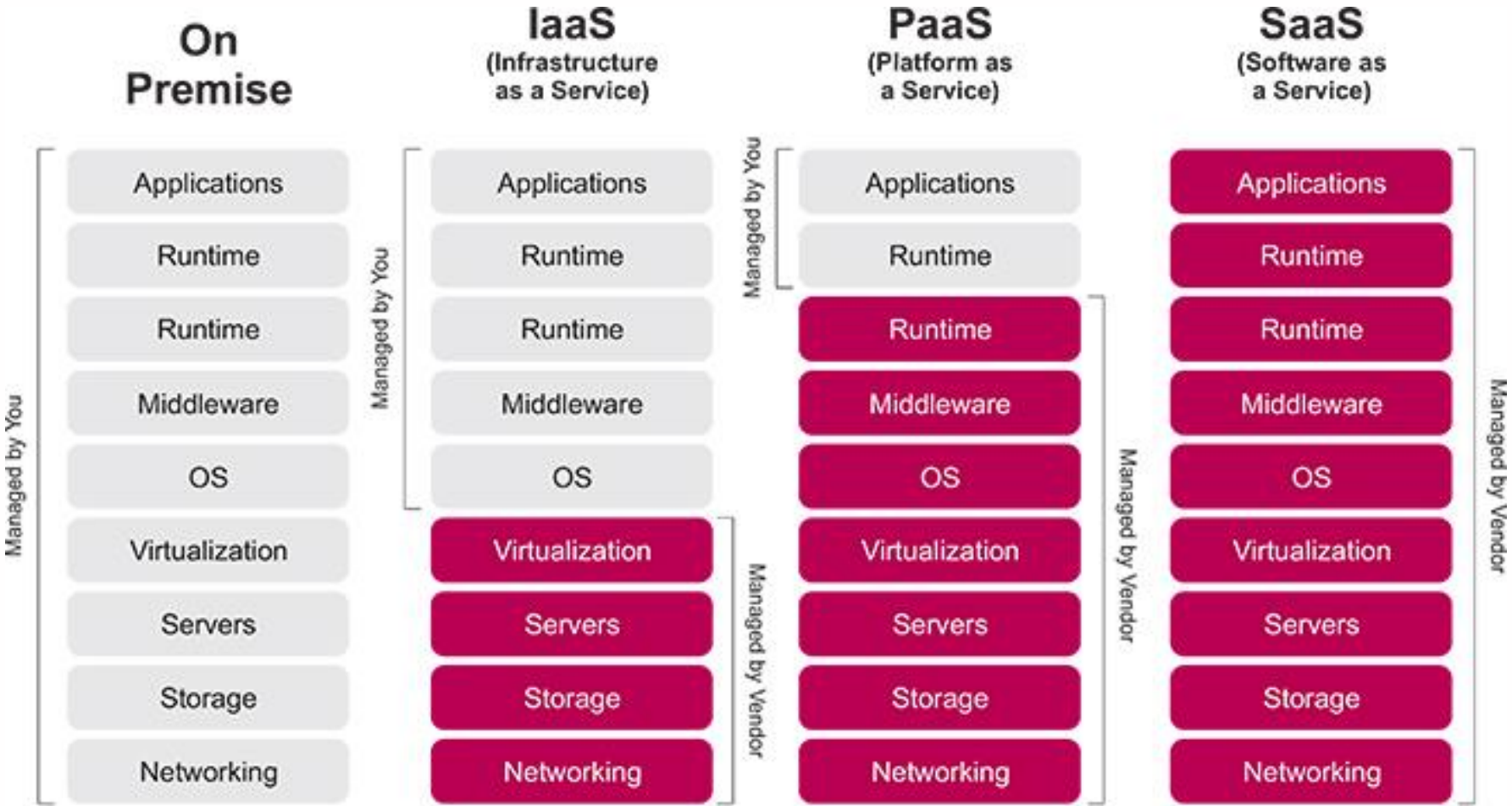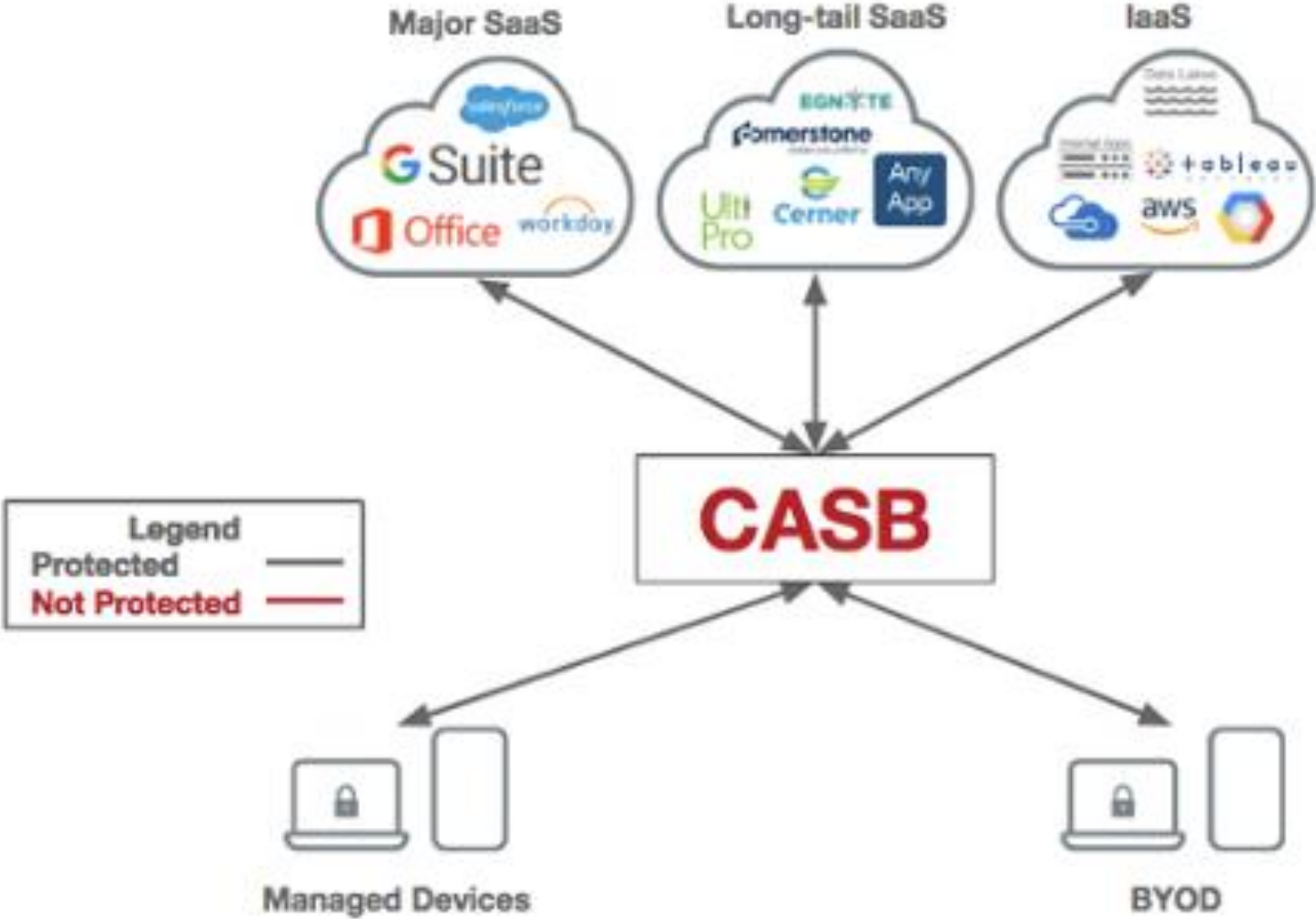
2. Perimeters and Access Control

Cloud Security

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The Shared Responsibility Model for Cloud Security

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The Shared Responsibility Model for Cloud Security

SaaS security – Cloud Access Security Brokers (CASBs)

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IaaS and PaaS – Where Cloud is going

Virtual Machines (VMs) → Containers → Microservices/ Serverless

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Cloud Workload Protection Platforms (CWPP)

- protect against malware and file-less attacks
- detect and stop East-West reconnaissance activity

CWPP

CSPM

Cloud Security Posture Management (CSPM)

- protect against VM sprawl
- detect and alert on compliance violations
- fix?

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Differences with Containers

- Small packages of code with open source components
- DevSecOps a requirement
- Speed of the CI/CD pipeline
- Container immutability

Serverless

- Even more ephemeral!
- No time to detect and respond
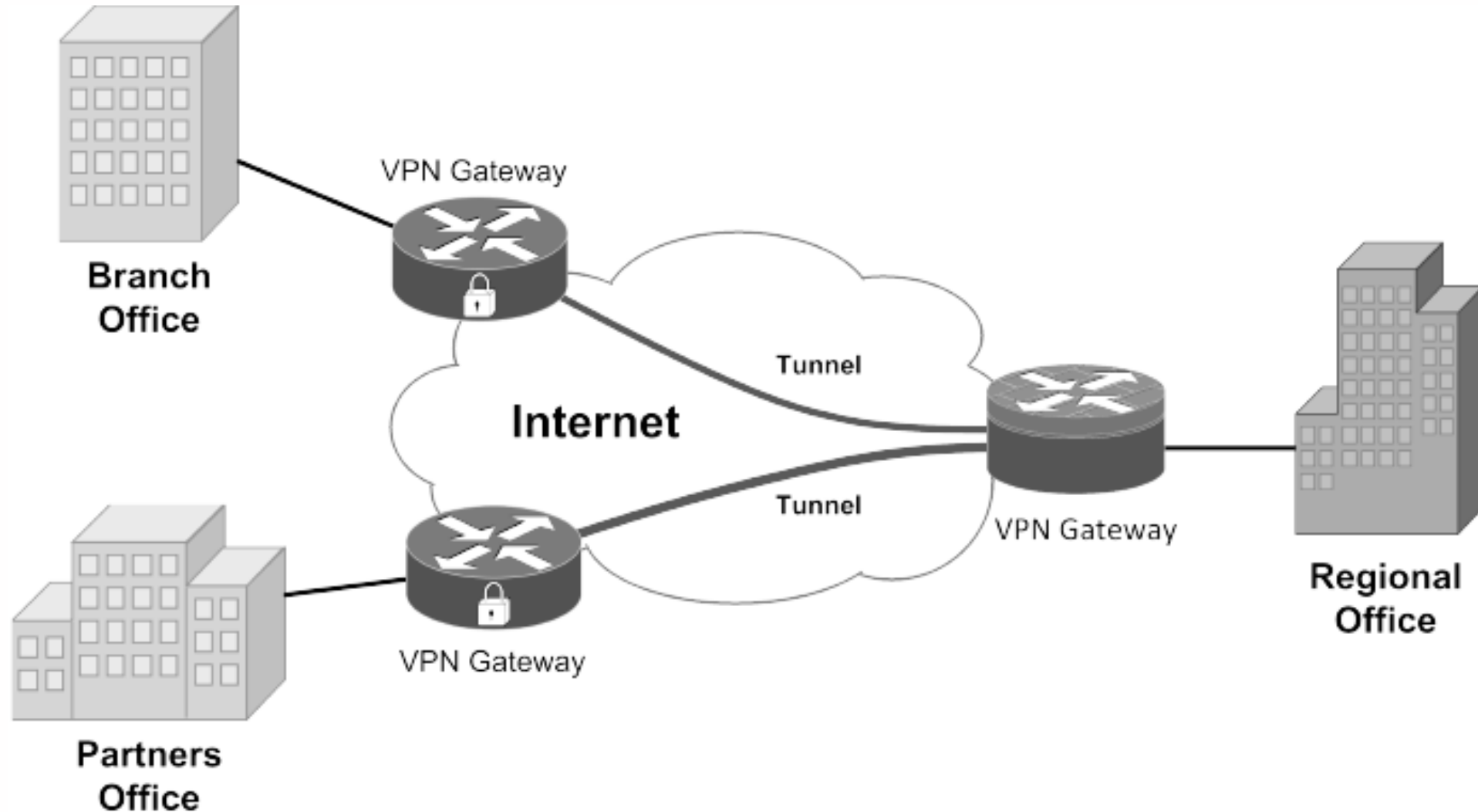- Perform function assurance
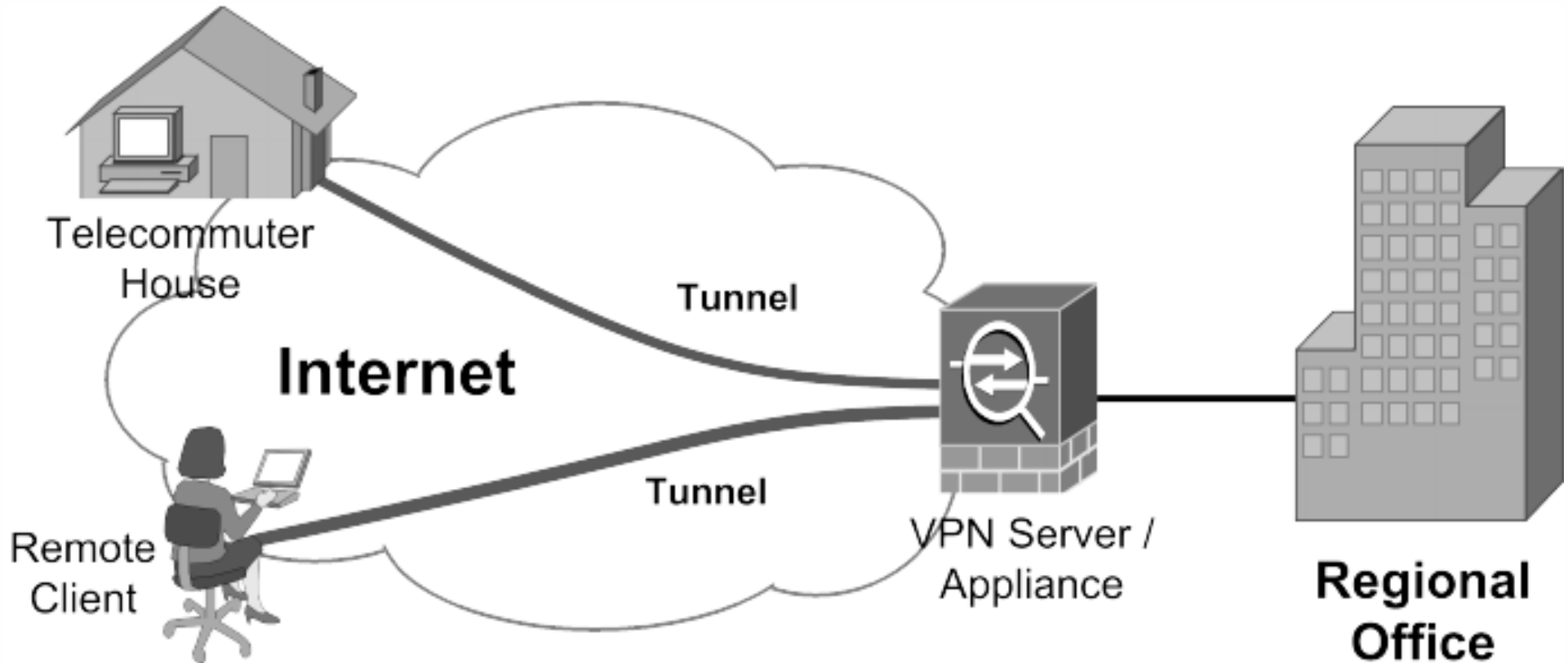- Enforce least privilege

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Perimeters and Access Control

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The Virtual Private Network (VPN) paradigm for site-to-site connectivity

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The Virtual Private Network (VPN) paradigm for remote access

But now…

HQ **Branch Office** **Remote Users**

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