

Optimizing and Deploying a Website

HOSTING YOUR WEBSITE ON THE WORLD WIDE WEB



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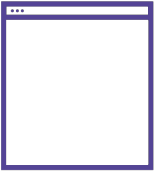
The **World Wide Web**, commonly known as **the Web**, is an information system where **documents** and other web resources are identified by **Uniform Resource Locators**, which may be interlinked by hypertext, and are accessible over **the Internet**.

The resources of the World Wide Web are transferred via the **Hypertext Transfer Protocol (HTTP)** and may be accessed by users by a software application called a **web browser** and are published by a software application called a **web server**

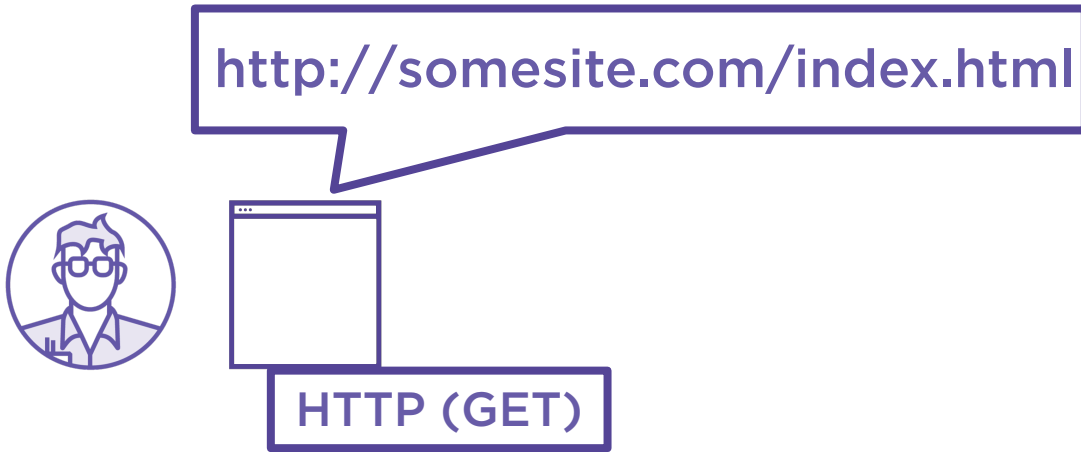


The World Wide Web

<http://somesite.com/index.html>



The World Wide Web



somesite.com



The World Wide Web



HTTP (GET)

somesite.com

index.html



styles.css



code.js



audio.mp3



video.mp4



The World Wide Web



somesite.com

index.html



styles.css



code.js



audio.mp3



video.mp4



The World Wide Web



[Click here for more info!](#)

<http://anothersite.com/linkedpage.html>

anothersite.com

linkedpage.html



The World Wide Web



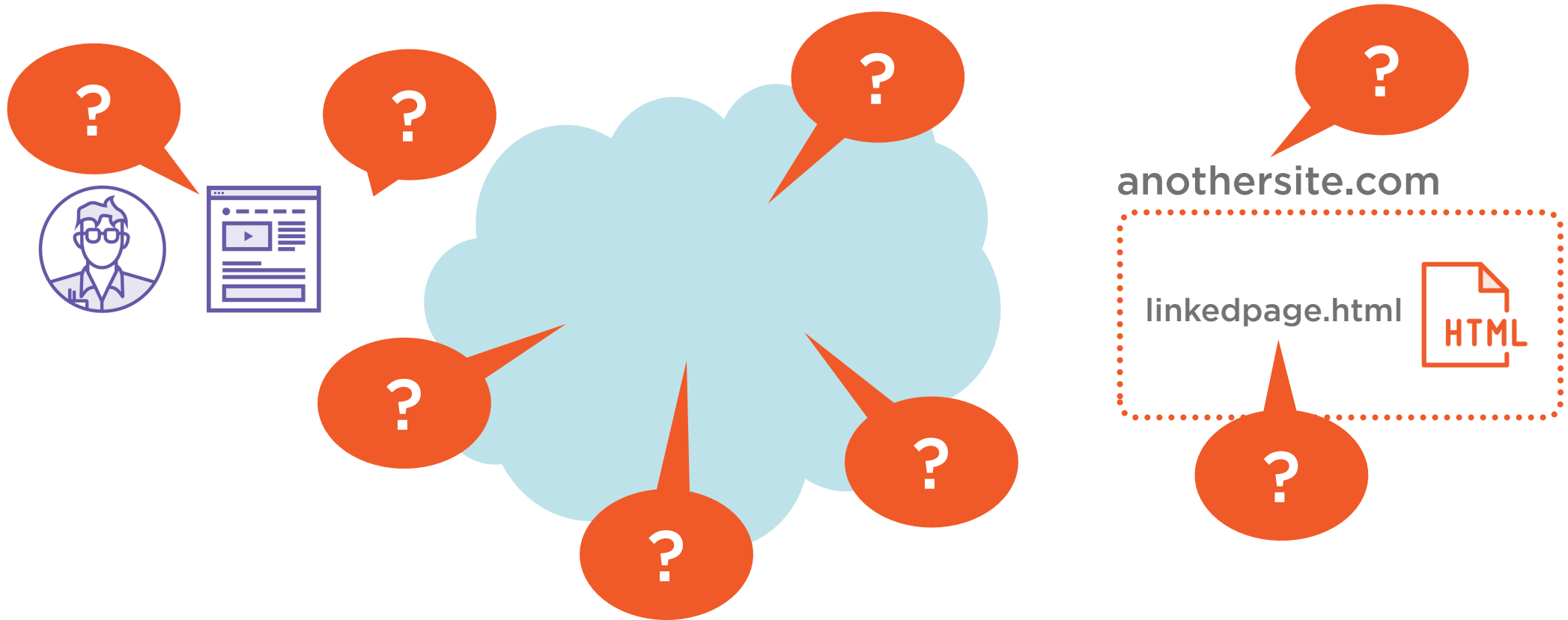
HTTP (GET)

anothersite.com

linkedpage.html



The World Wide Web



Overview



The World Wide Web

The Web and the Internet

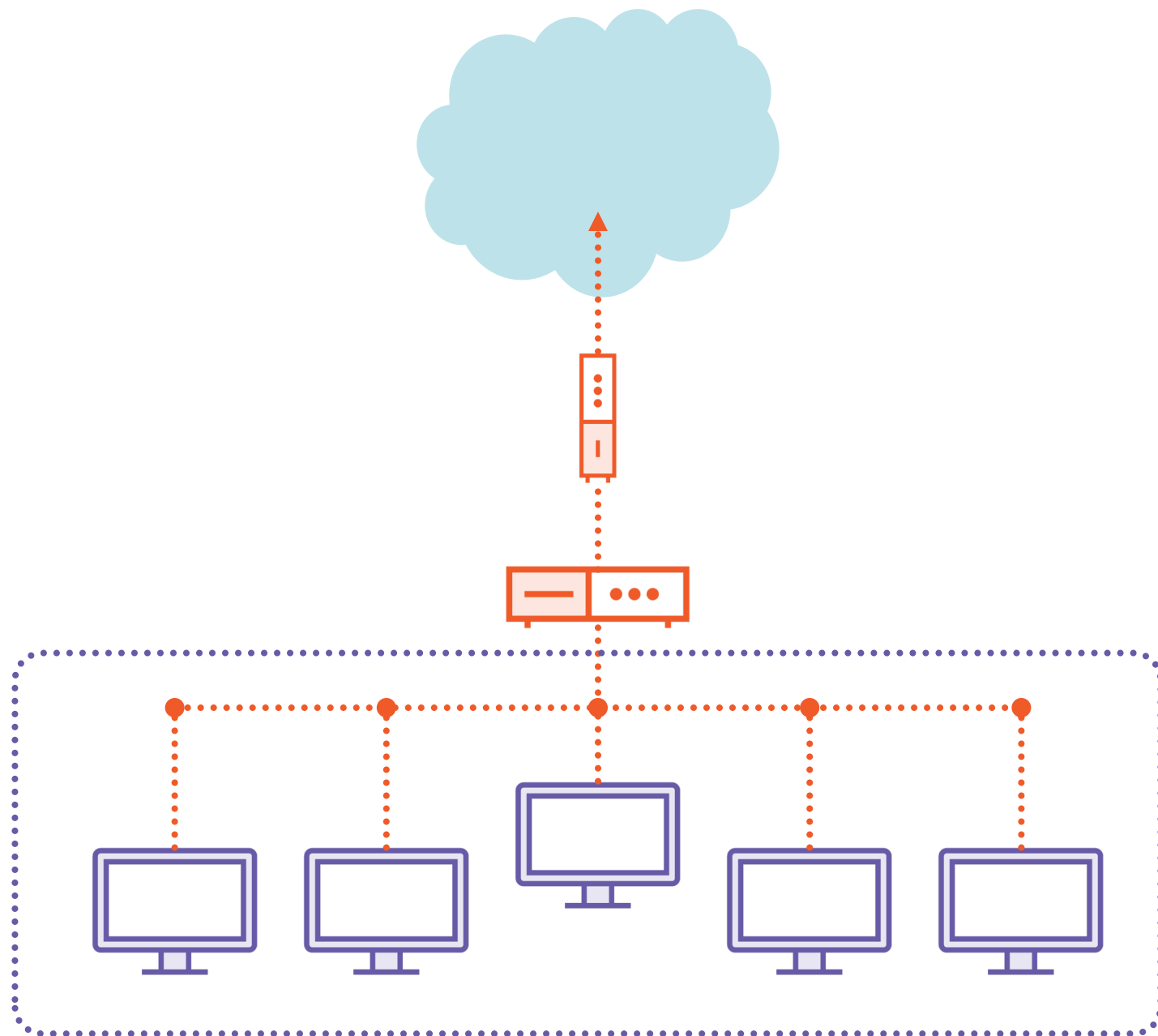
Understanding web servers

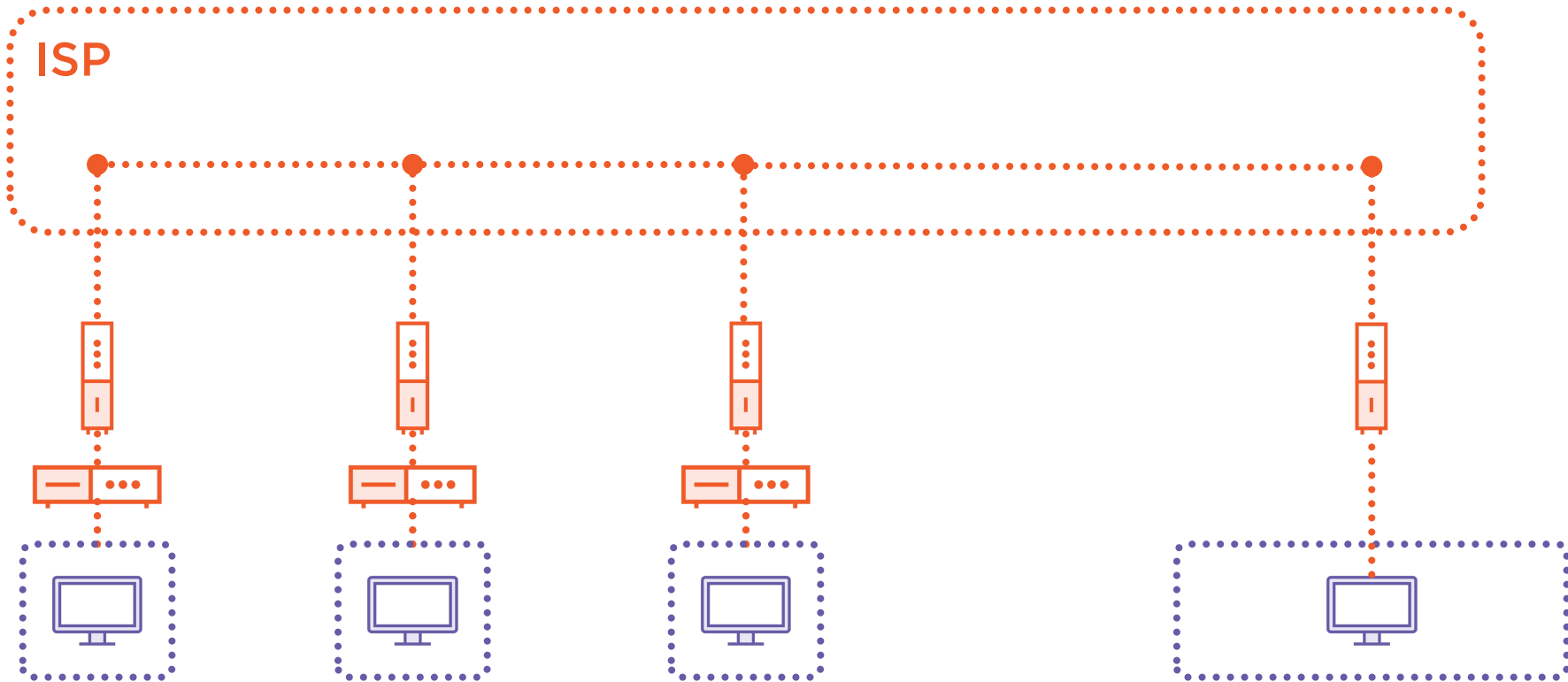
Tour of a locally deployed web server

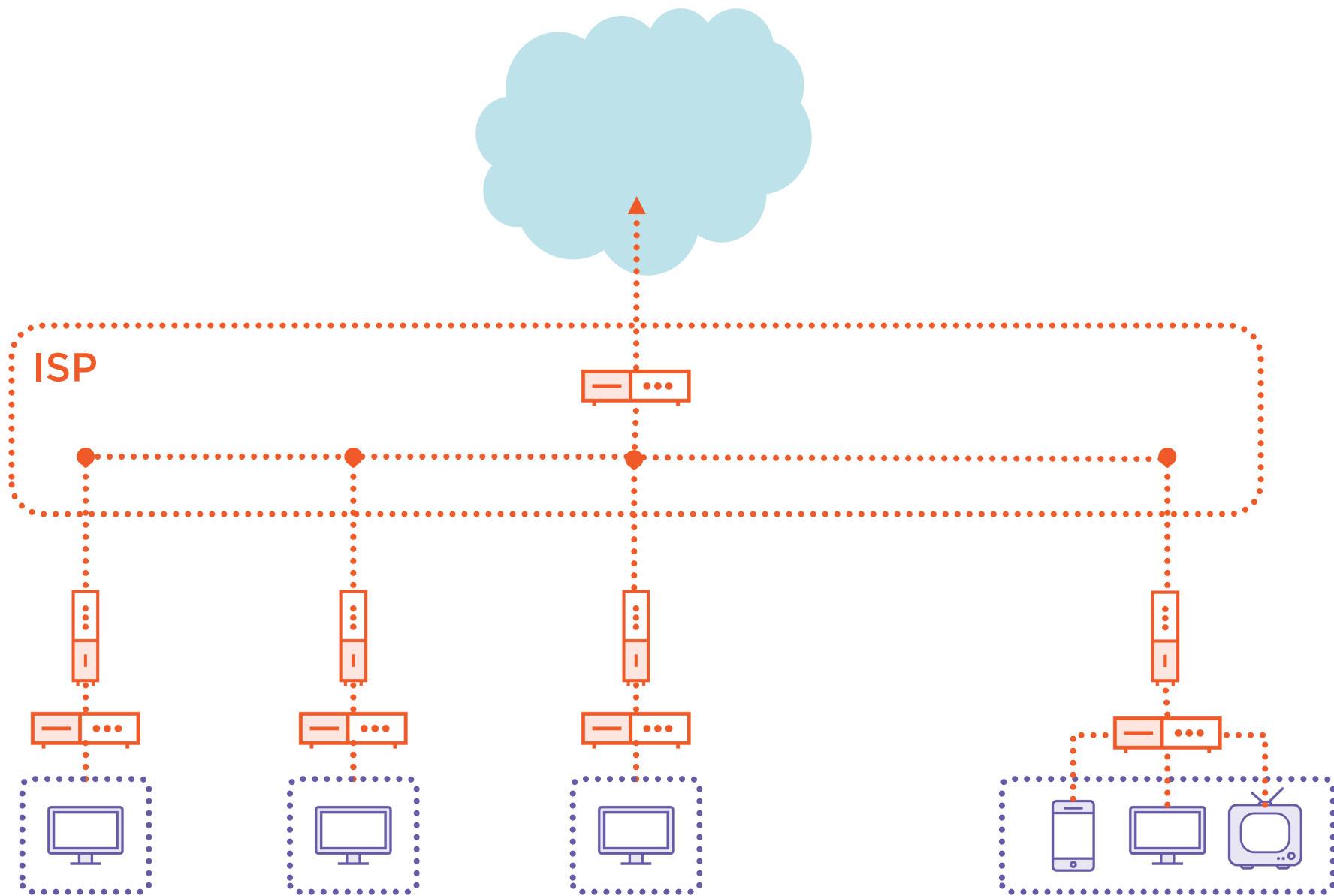


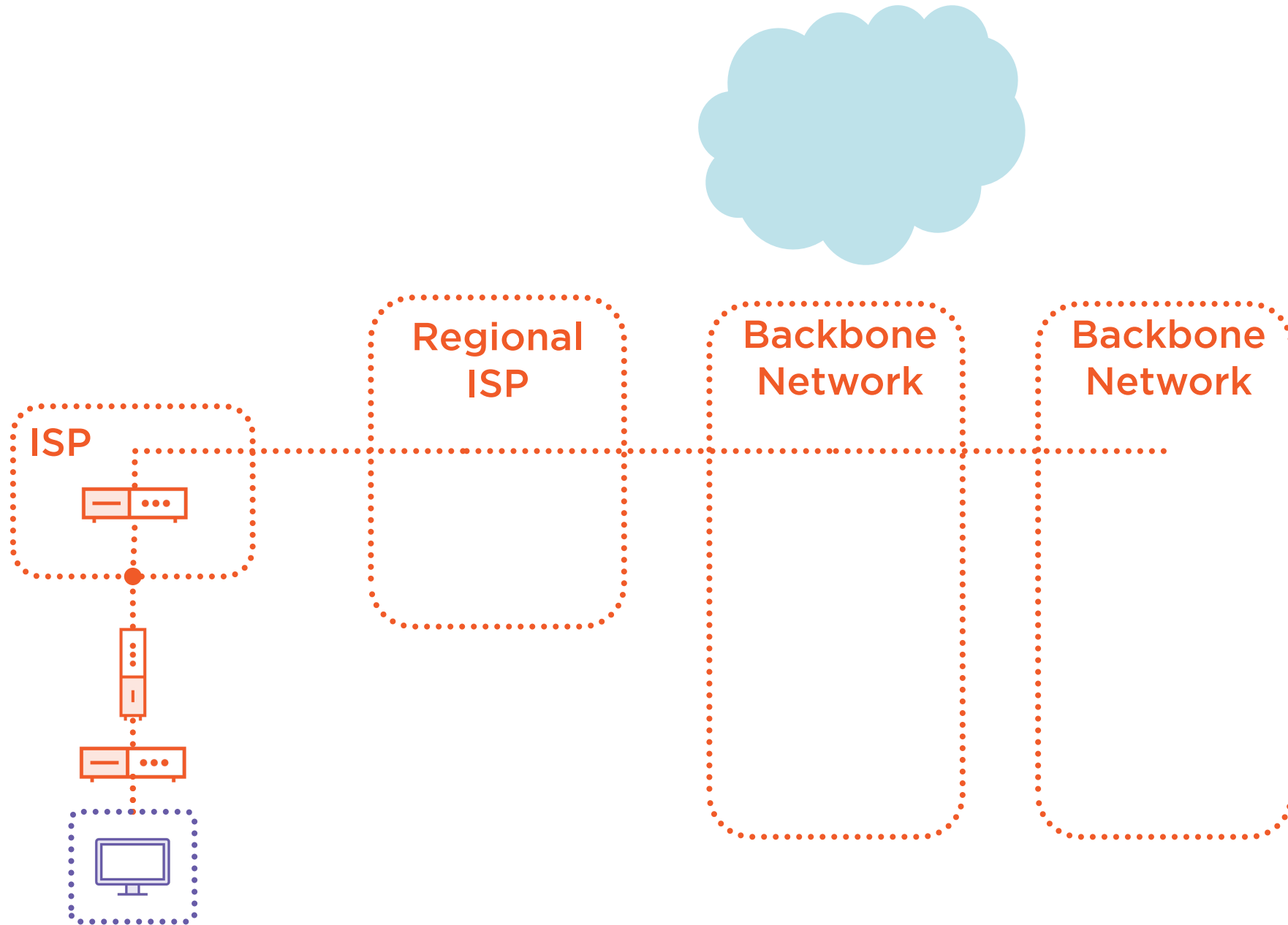
The Web and the Internet

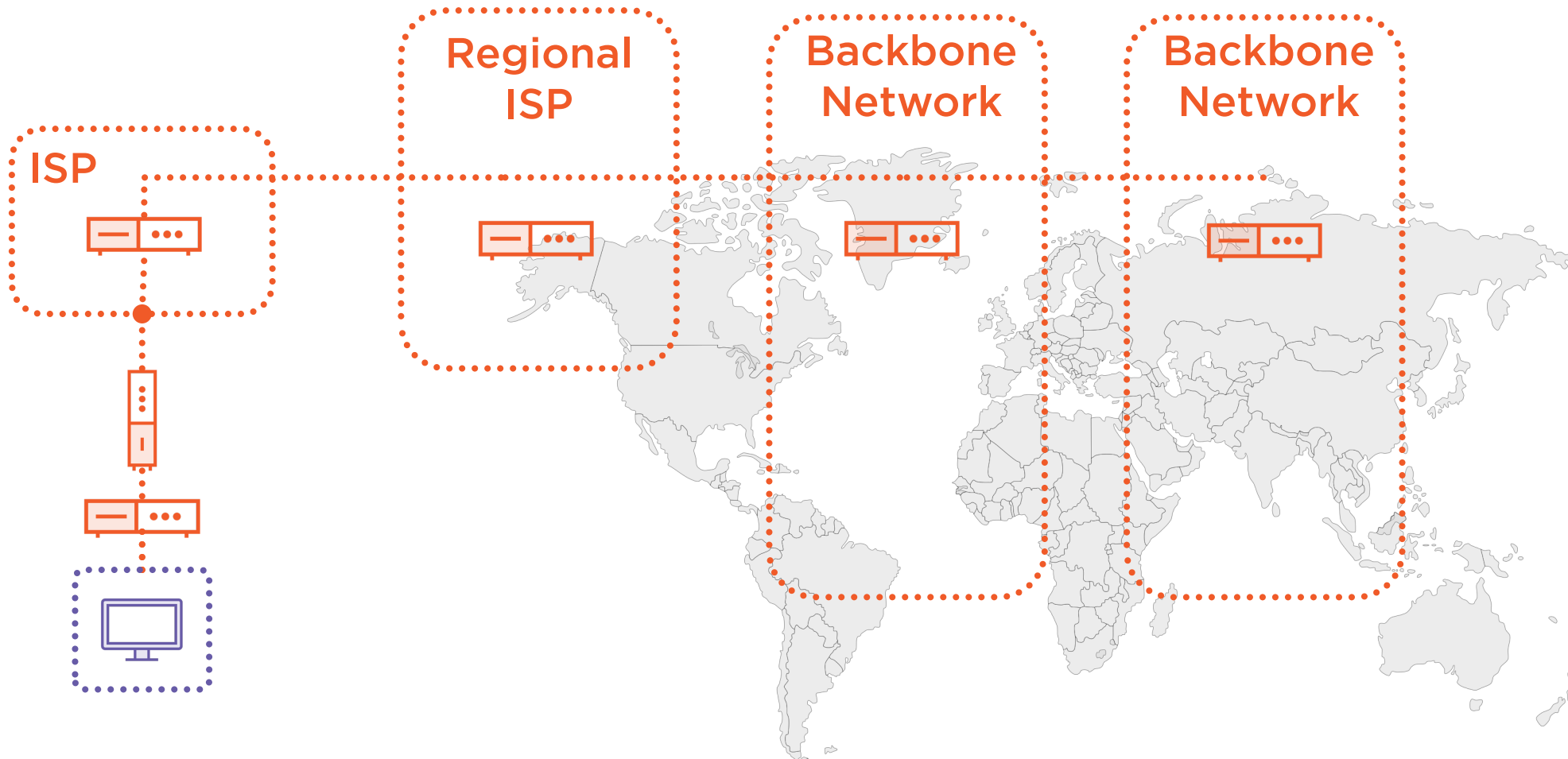


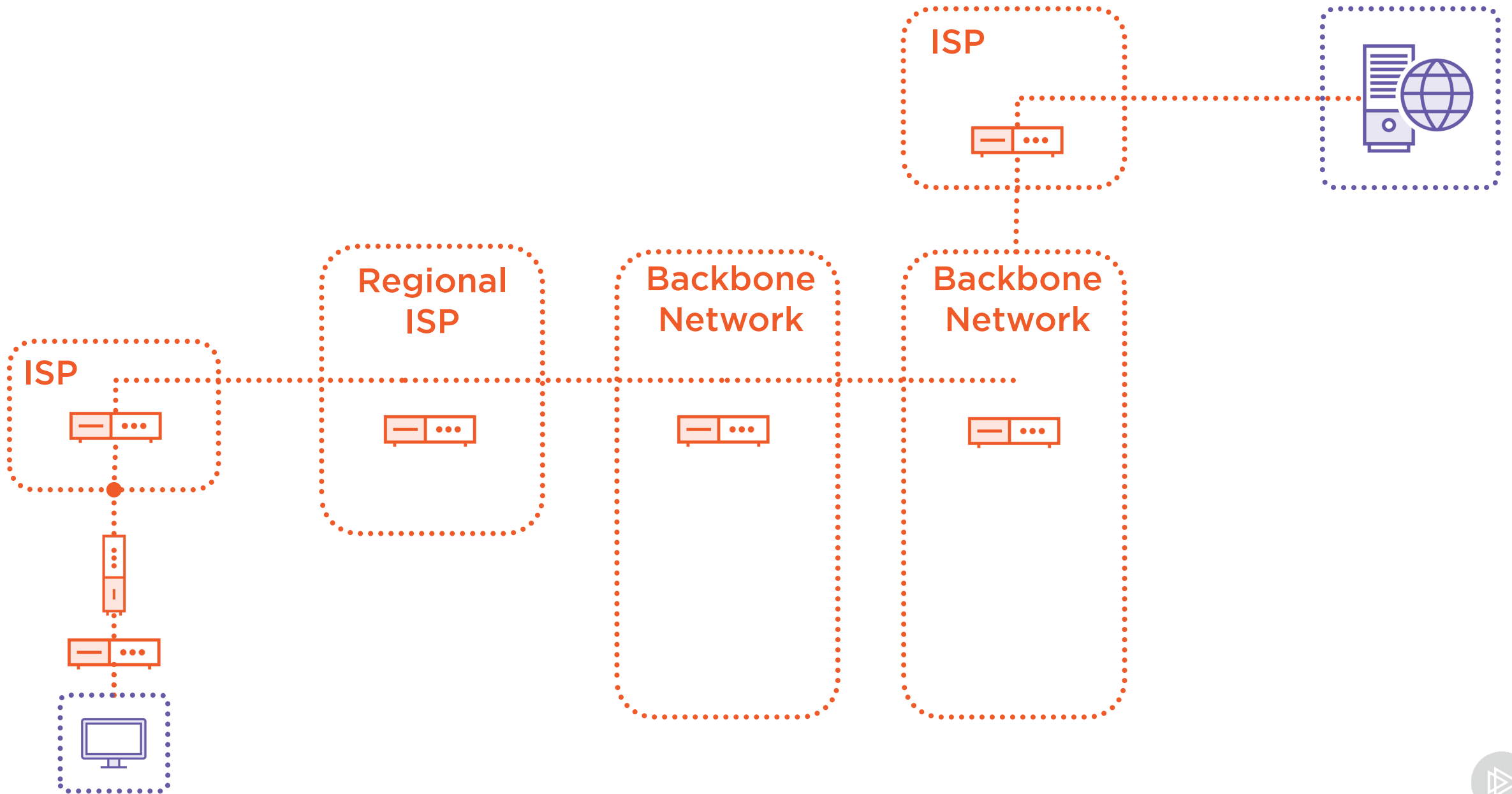


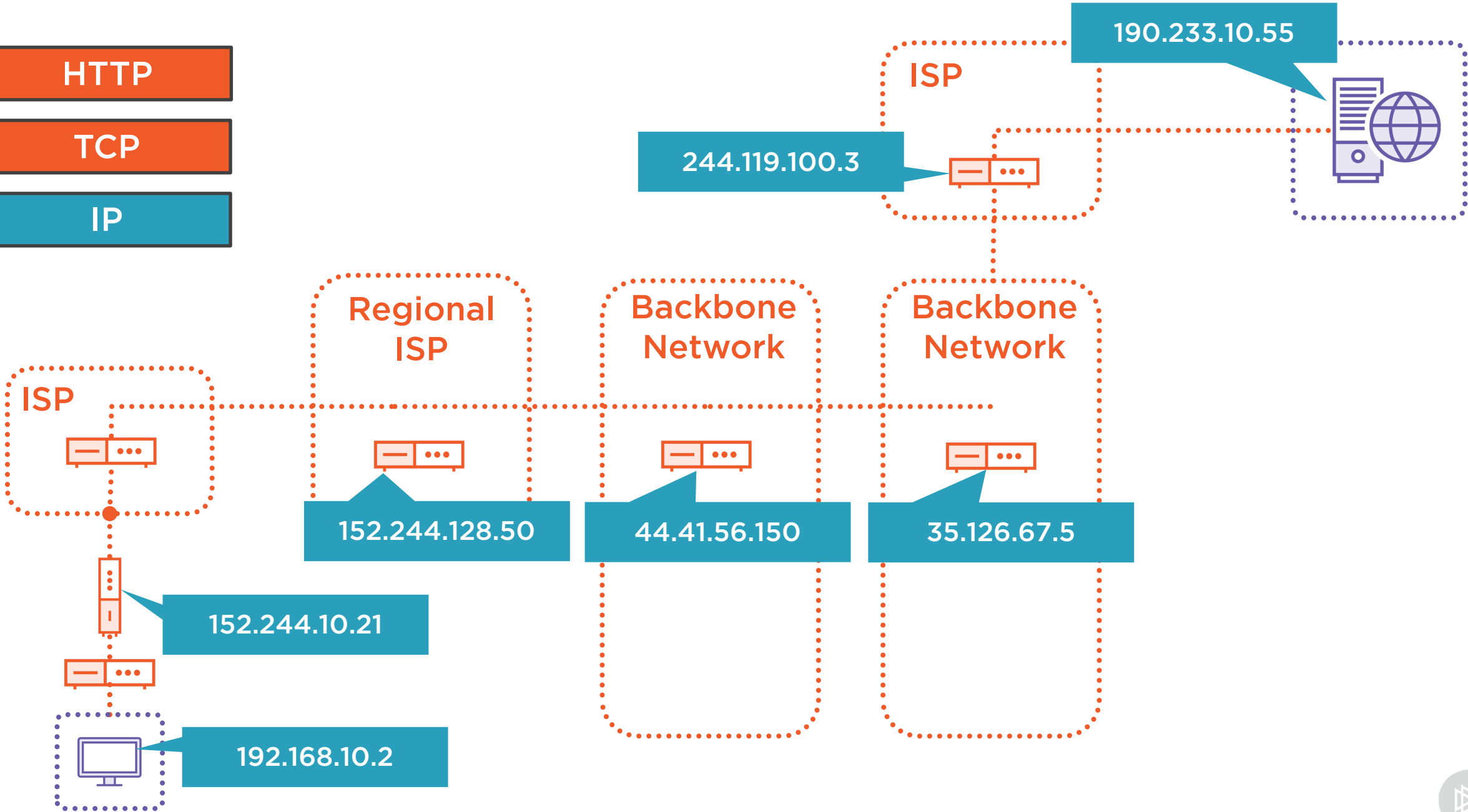
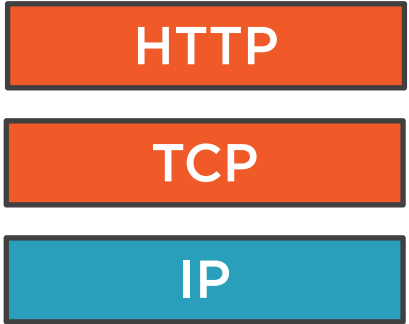


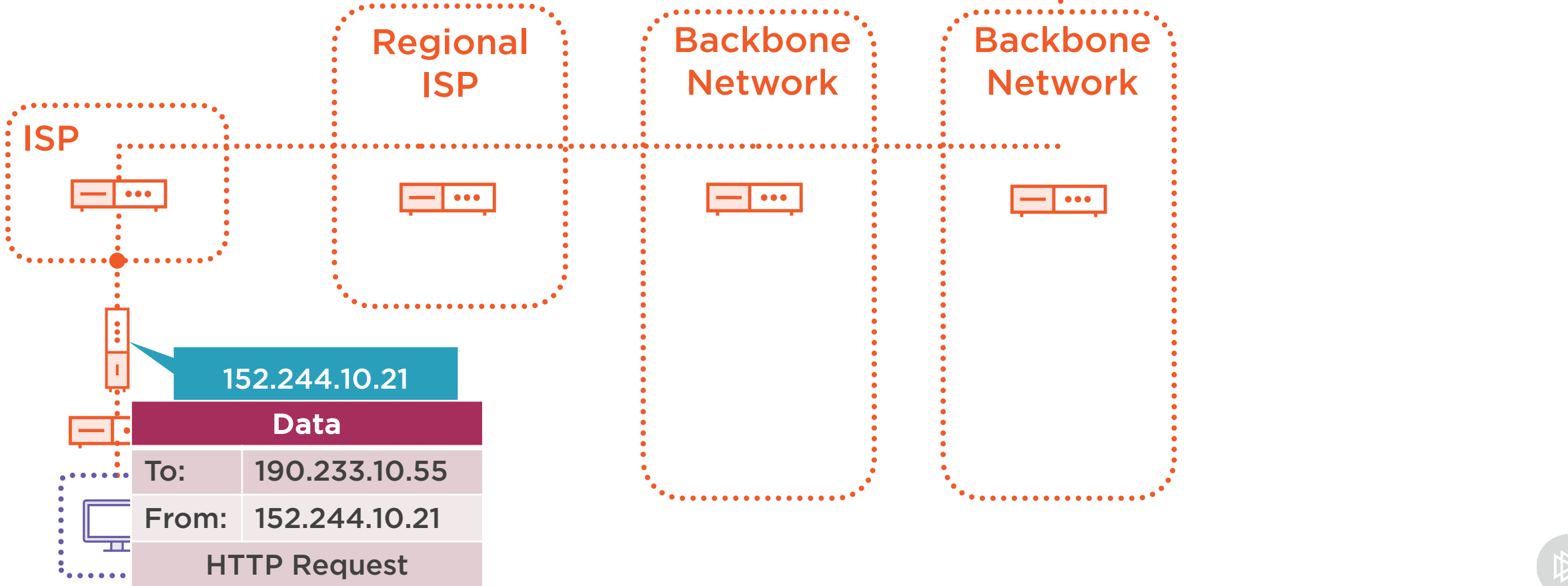
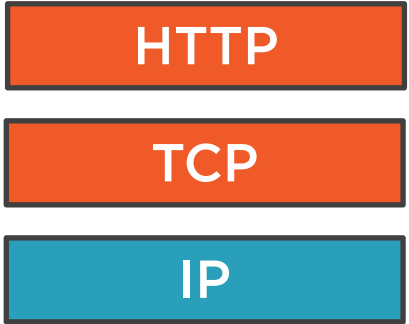


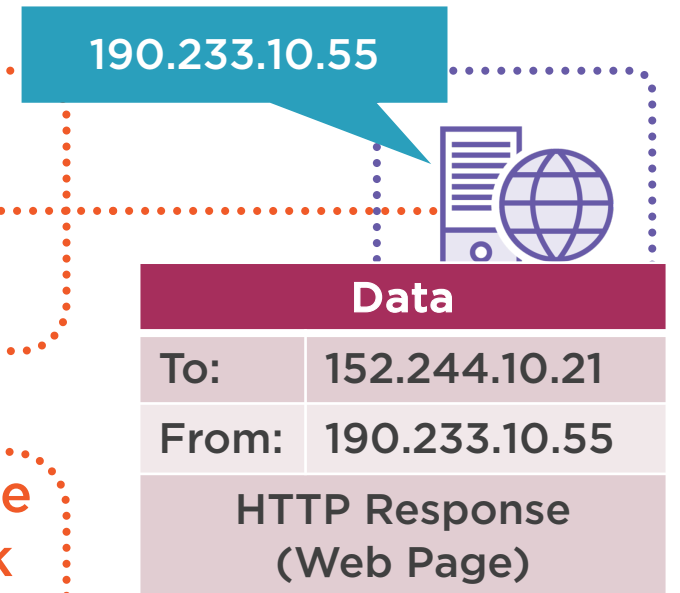
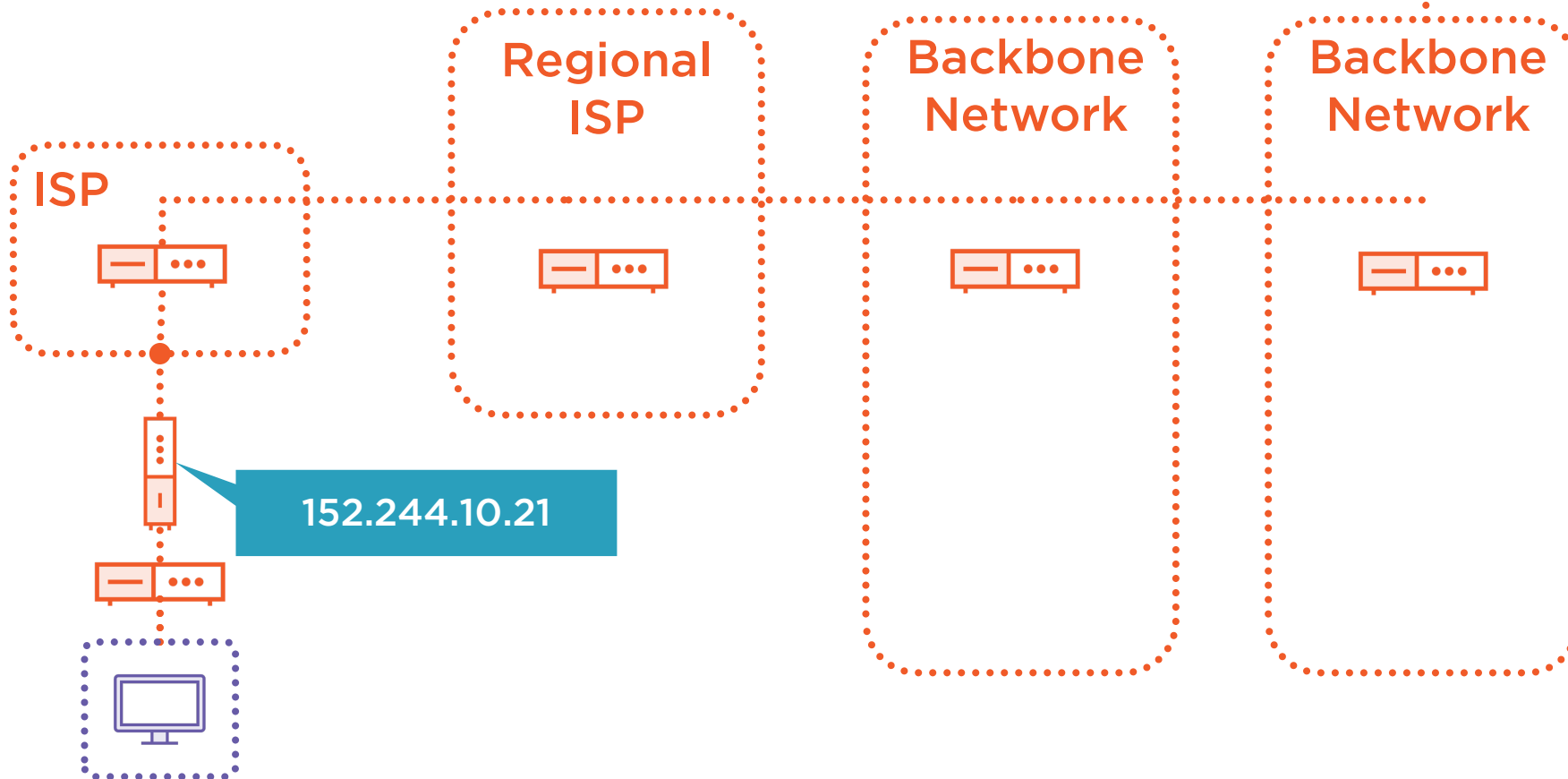
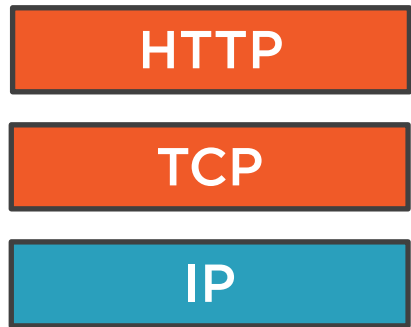


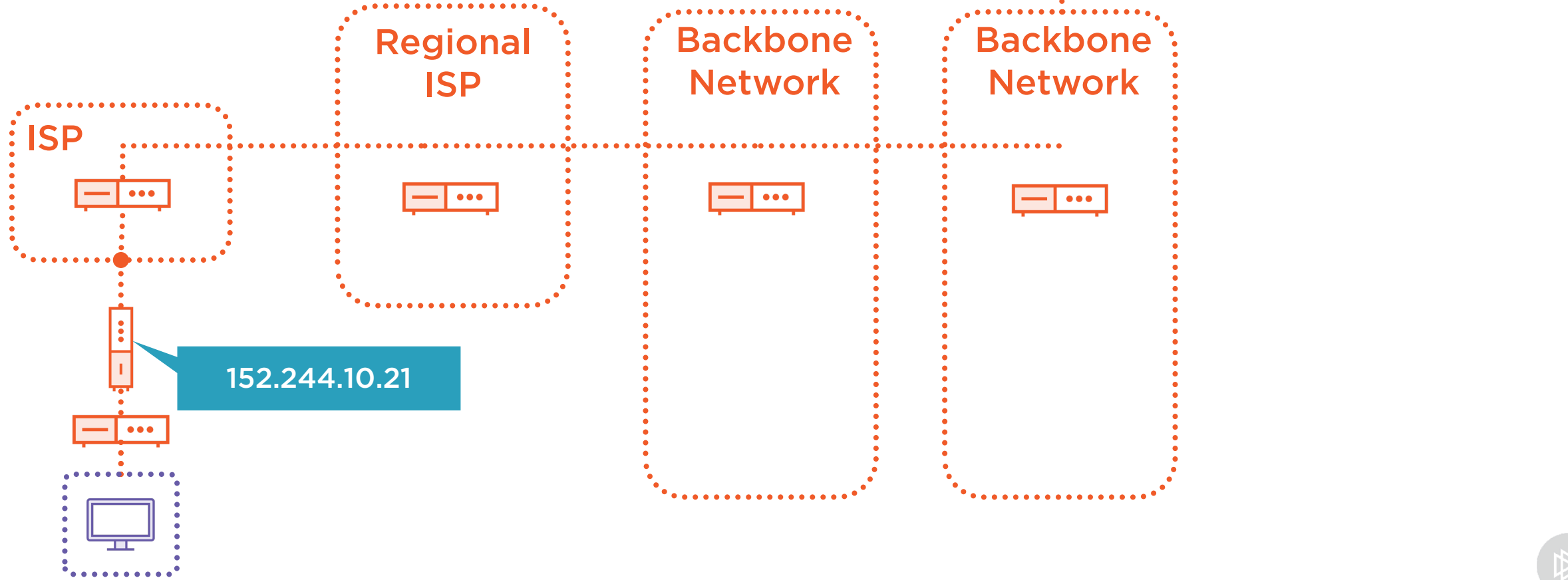
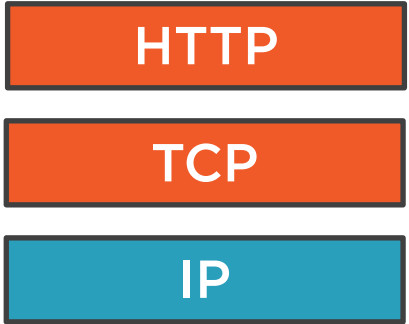




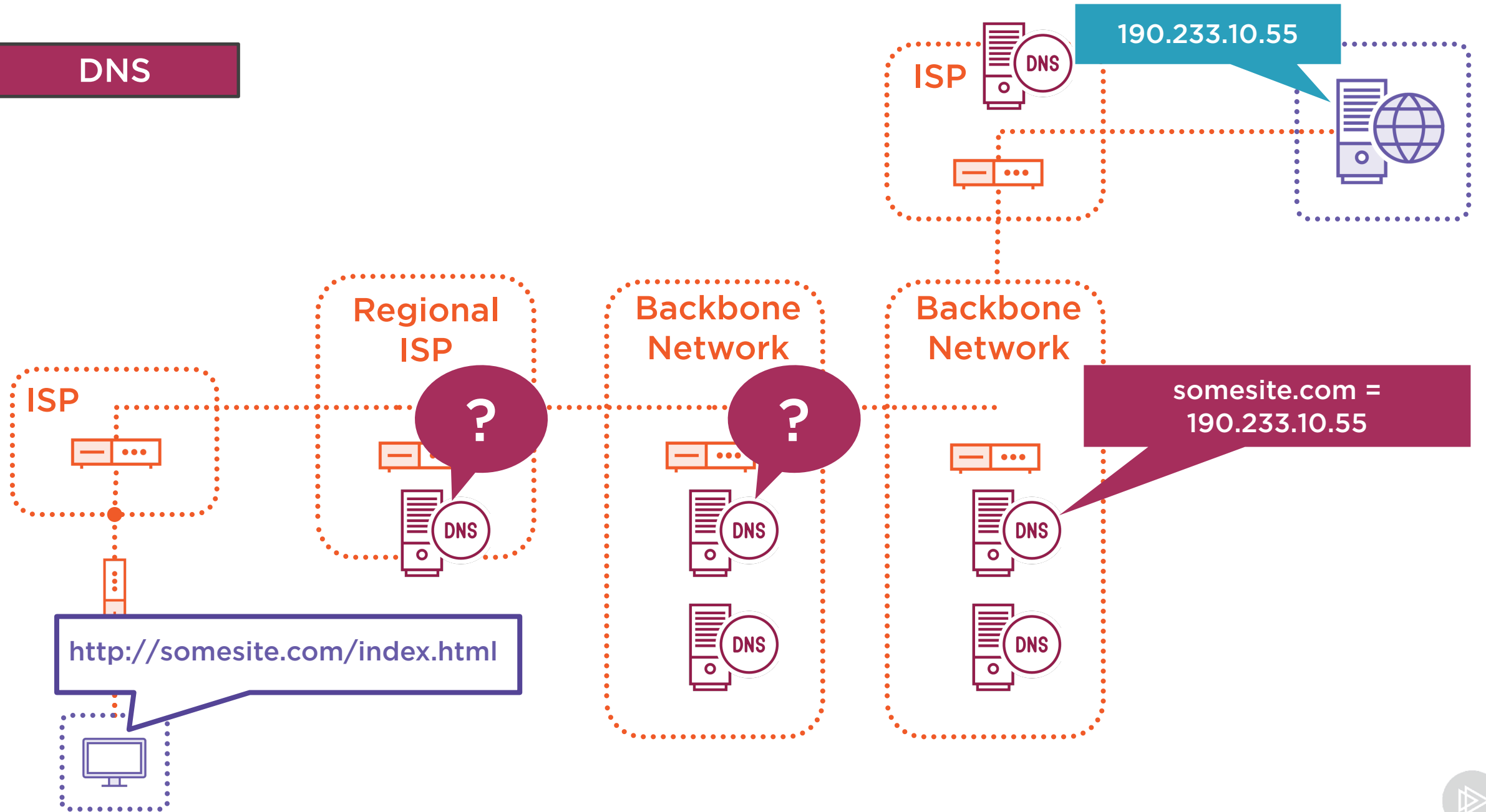






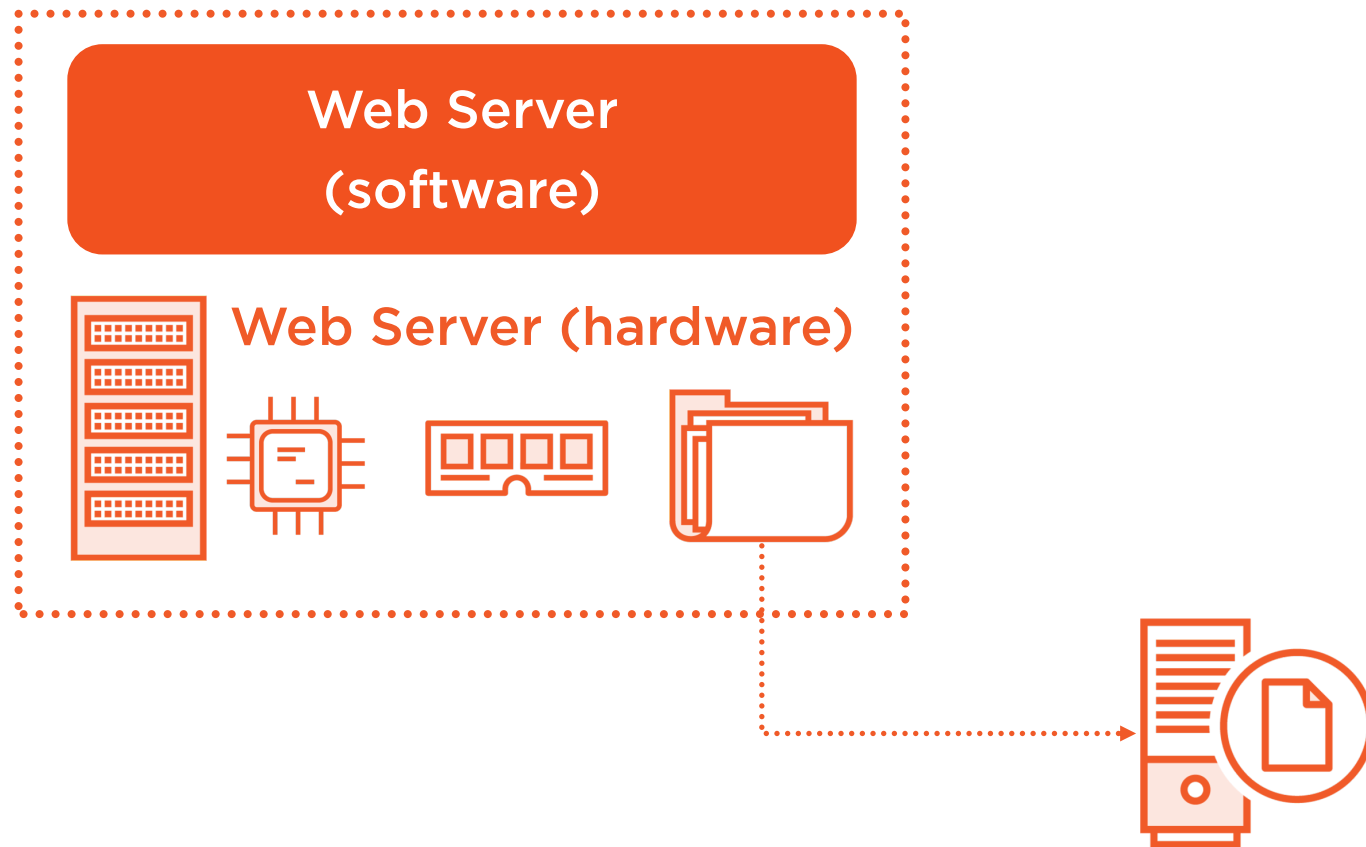


DNS



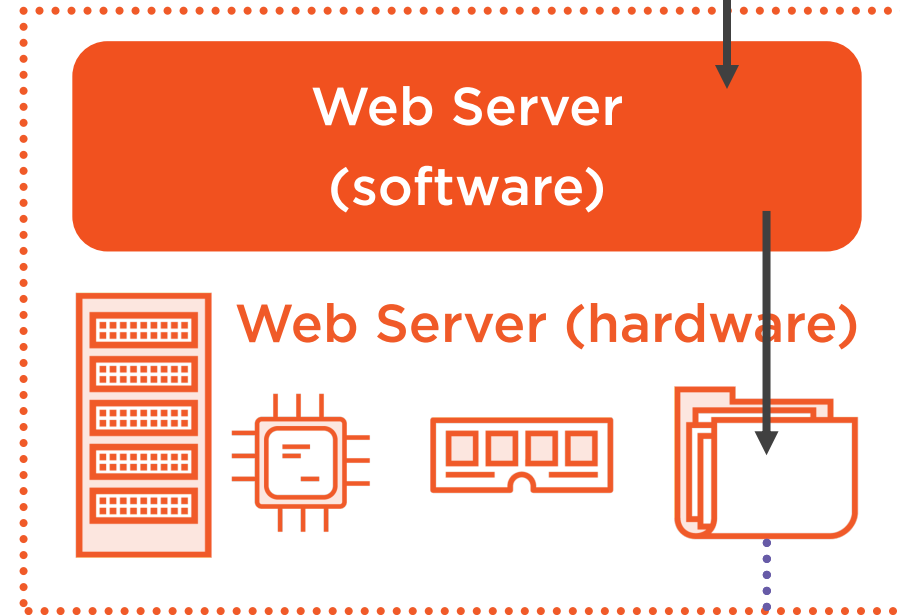
Understanding Web Servers





HTTP Request

<http://pieshop.com/products/pie-list.html>

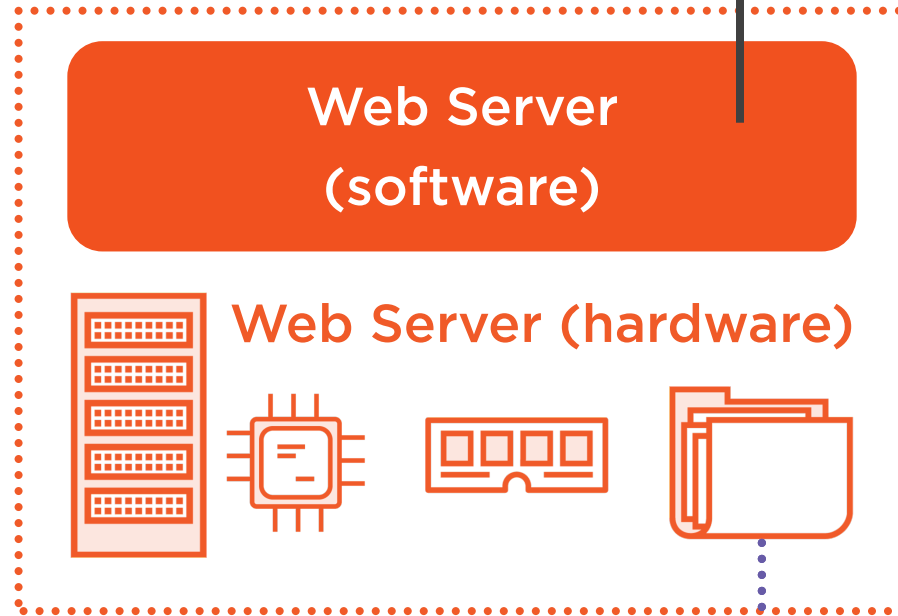


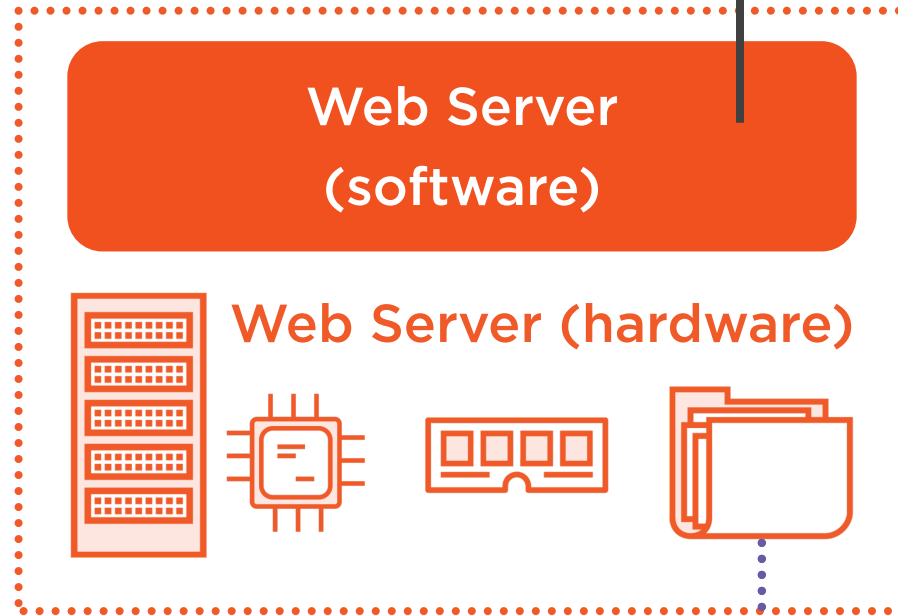
HTML

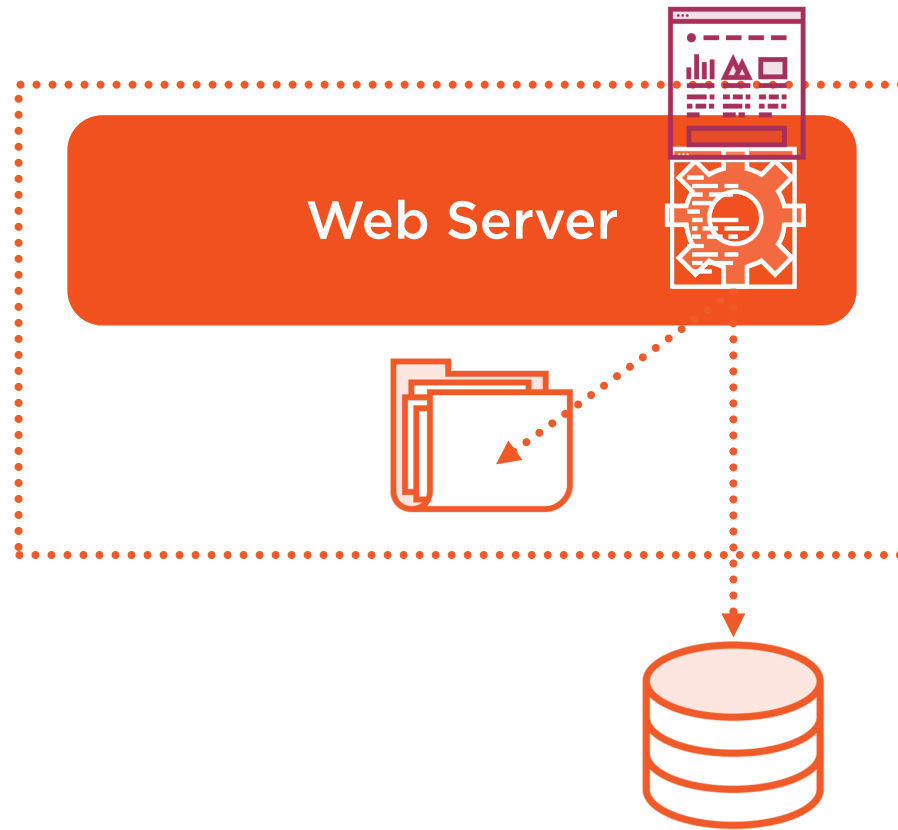
CSS

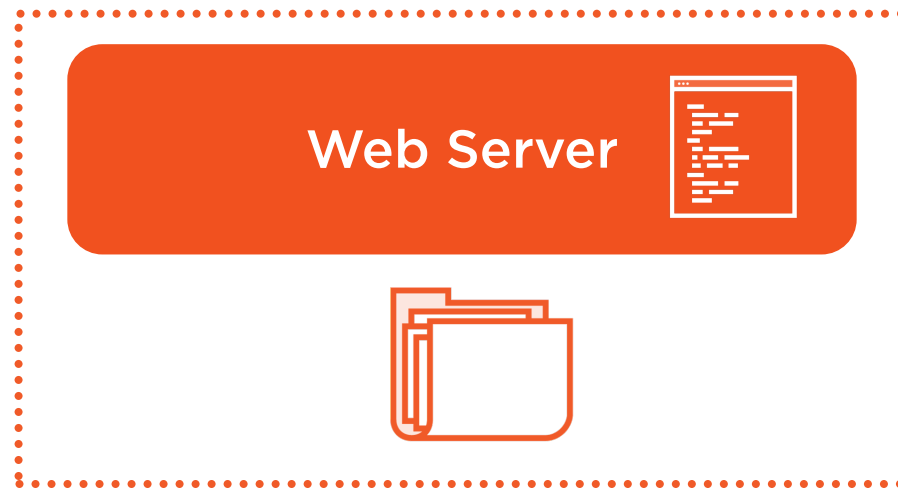
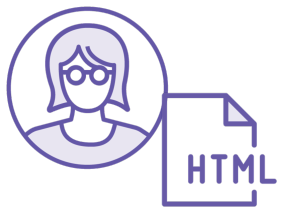
JS

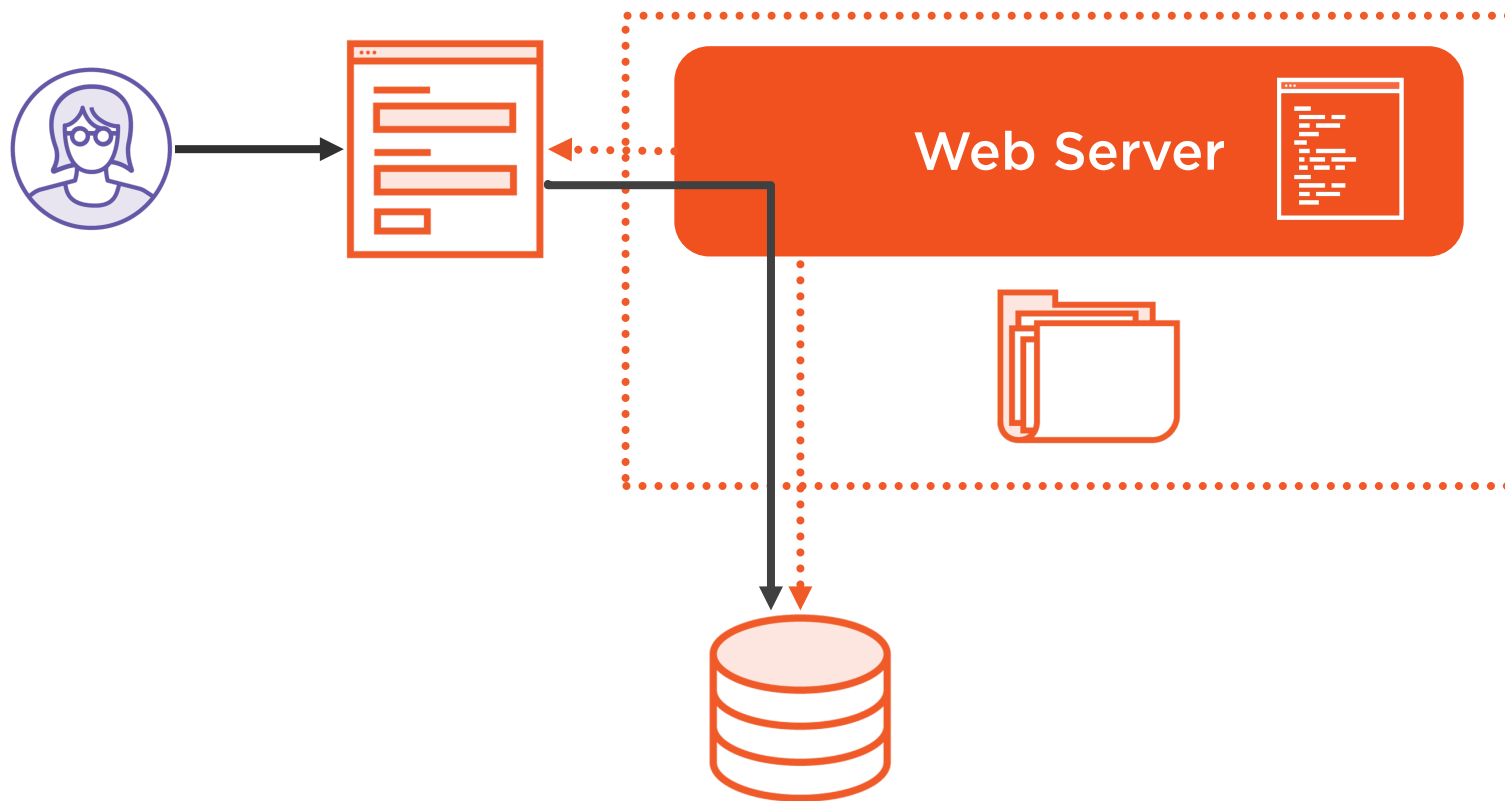












Popular Server-side Frameworks:

ASP.NET

Java

Node.js

PHP

Ruby

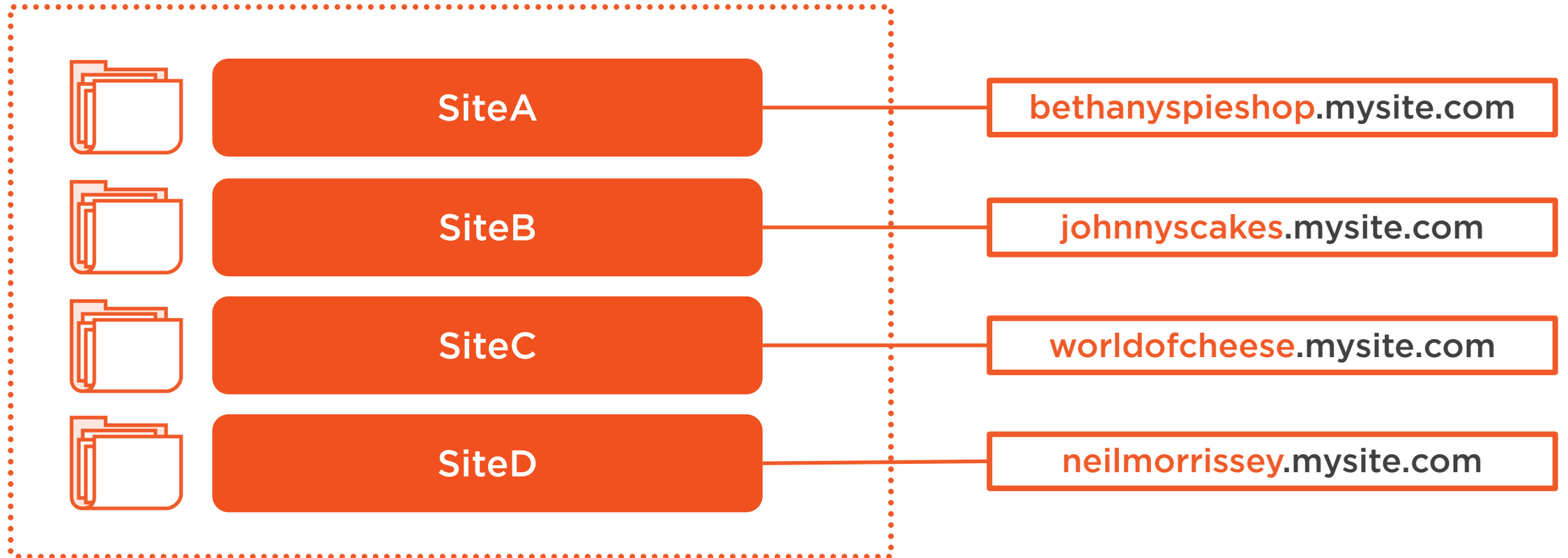
And more...



Code Frameworks







190.233.10.55



SiteA



SiteB



SiteC



SiteD

bethanyspieshop.mysite.com



190.233.10.55

HTTP Service

● 190.233.10.55:80

www.bethanyspieshop.com:80



190.233.10.55

<https://bethanyspieshop.com>

HTTPS Service

● 190.233.10.55:443

HTTP Service

● 190.233.10.55:80

SMTP Service

● 190.233.10.55:25



FTP Service

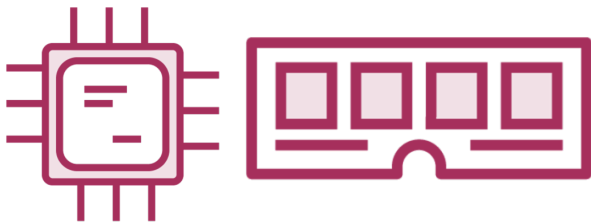
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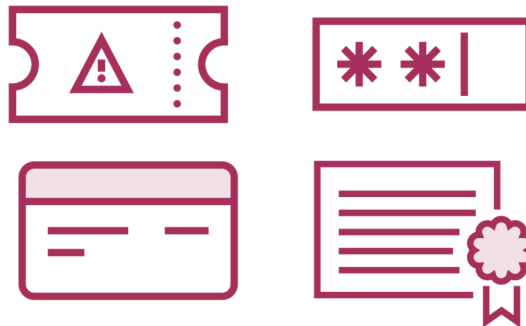
More Web Server Features



Performance



Authentication



Encryption in Transit



Popular Web Server Software

Apache

nginx

IIS



Module Summary



The World Wide Web

The Web and the Internet

Understanding web servers

Tour of a locally deployed web server



Up Next:

Deploying Your Website to a Web Hosting Provider

