

How to extend AWS servers from your VPN Network

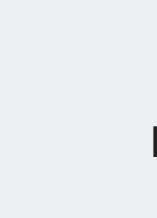
The Amazon Web Services (AWS) platform provides your enterprise with the cloud advantages you need to flexibly meet fluctuating customer demands.

You can extend AWS from your Virtual Private Network (VPN) to gain the network capacity you need while having complete control over your network in terms of security, scalability, cost, and configuration.

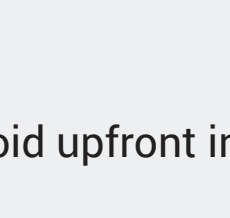
Here's how to do it:

Leverage Amazon Virtual Private Cloud

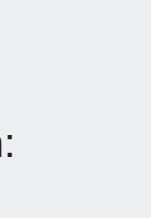
Amazon Virtual Private Cloud (VPC) allows you to:



Provision a private, isolated section of the AWS



Launch AWS resources in a virtual network that you define



Define a virtual network topology based on your need

THE AMAZON VPC ADVANTAGE

Helps you avoid upfront investments in:



Building your own data center



Providing the required hardware



Acquiring security certificates



Hiring and training system administrators

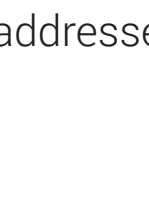


Maintaining the network

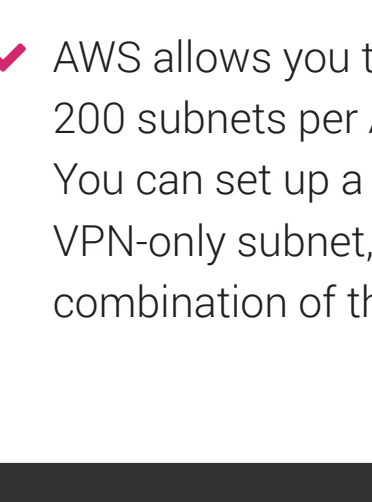
Gives you complete control over your virtual networking environment



Select your own IP address range



Create subnets

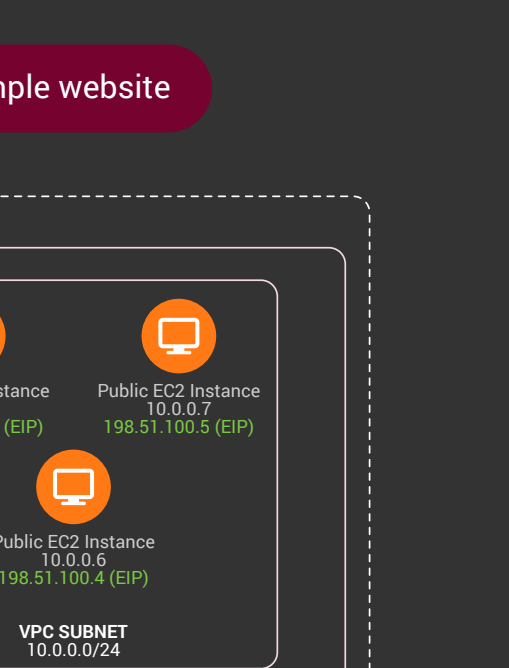


Select your own IP address range

- Specify set of addresses in the form of Classless Inter-Domain Routing (CIDR) block (for example, 10.0.0/16)
- Assign block sizes between /28 (16 IP addresses) and /16 (65,536 IP addresses)

Create your VPC subnets

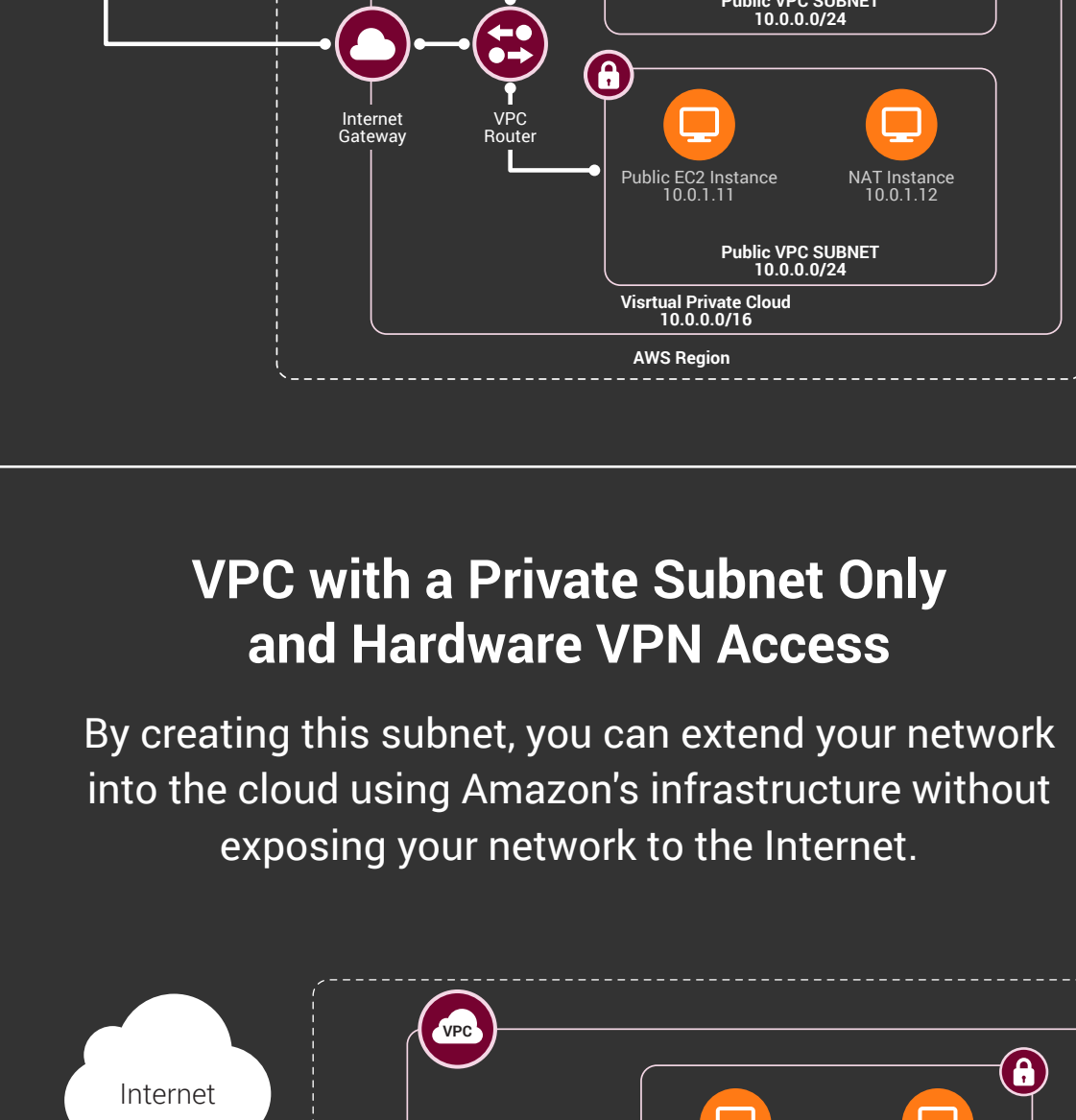
- AWS allows you to create up to 200 subnets per Amazon VPC. You can set up a public, private, VPN-only subnet, or a combination of these subnets.



VPC with a Single Public Subnet Only

This subnet allows you to run a single-tier, public-facing web application:

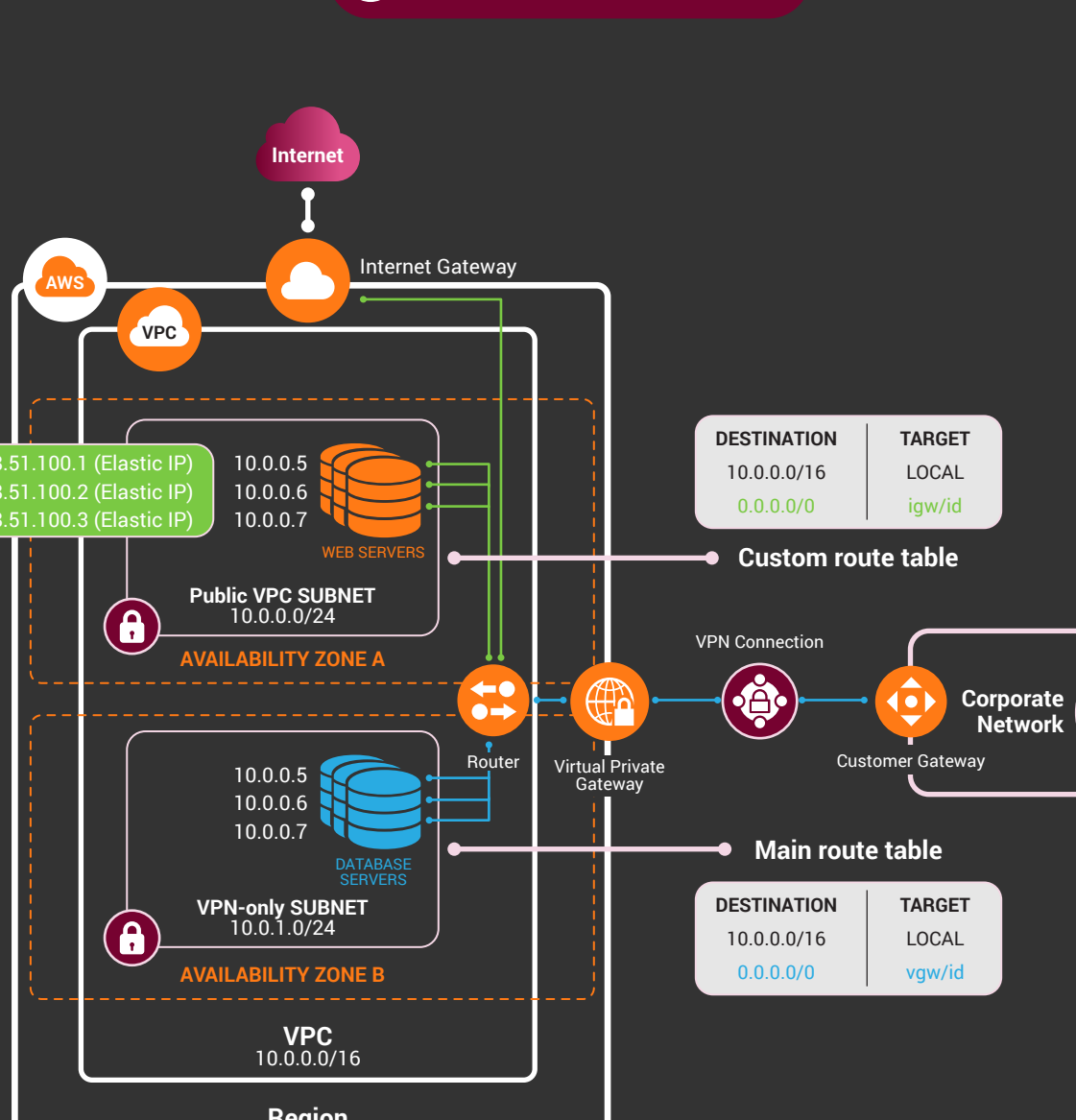
- blog
- simple website



VPC with Public and Private Subnets

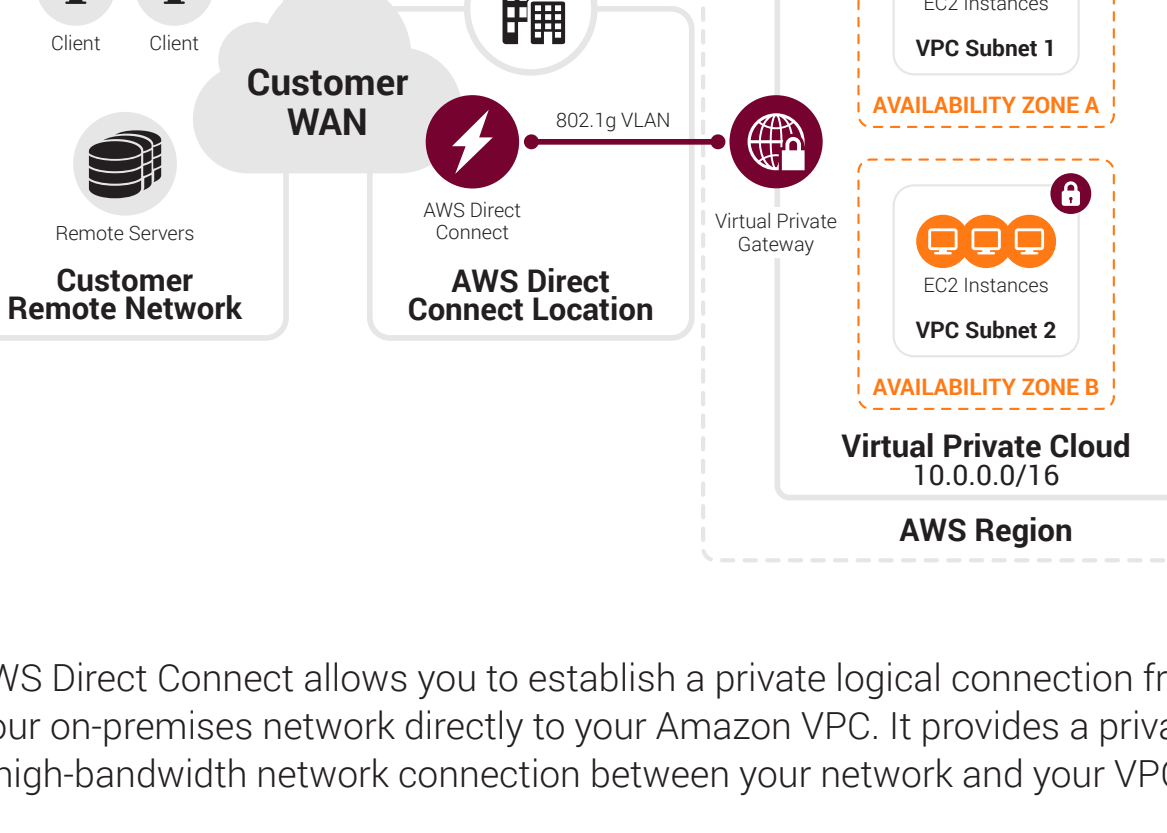
Create this subnet to be able to run a public-facing web application, while maintaining back-end servers that aren't publicly accessible.

- multi-tier website



VPC with a Private Subnet Only and Hardware VPN Access

By creating this subnet, you can extend your network into the cloud using Amazon's infrastructure without exposing your network to the Internet.



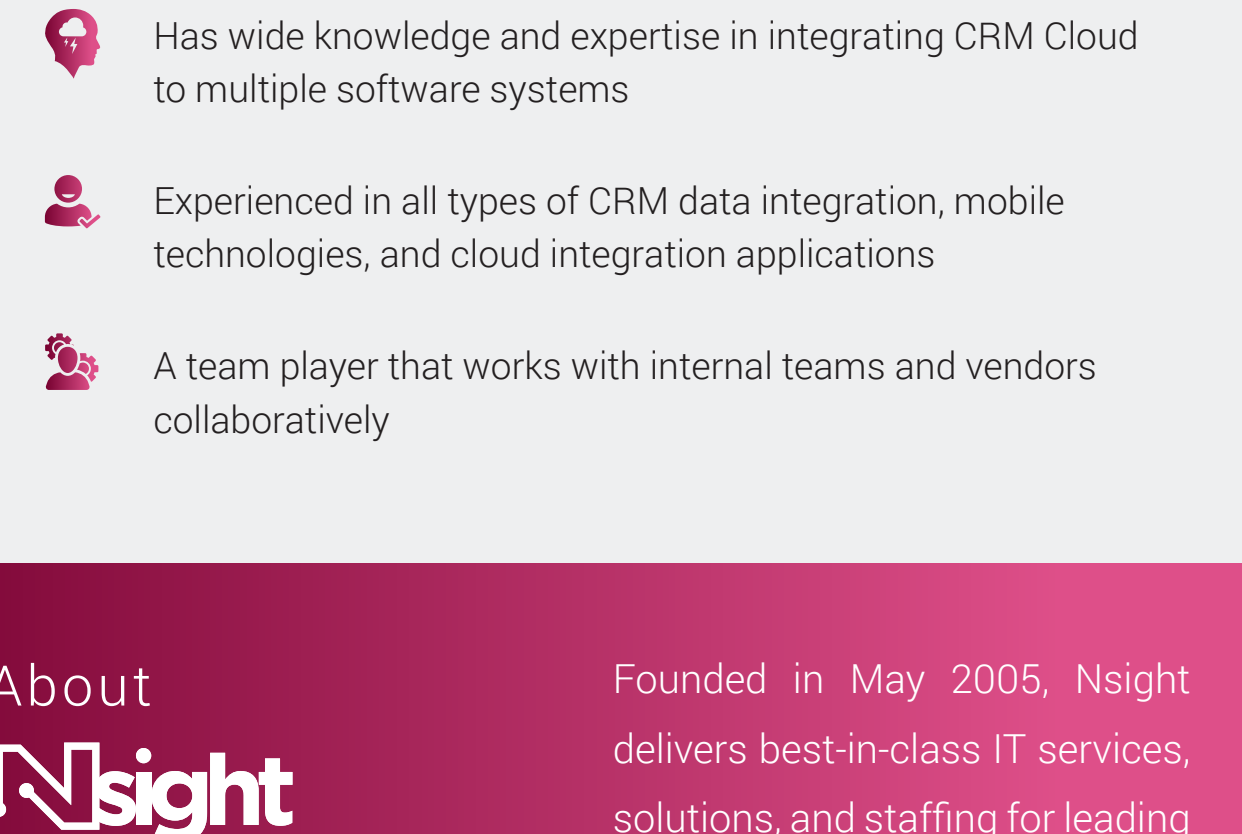
VPC with Public and Private Subnets and Hardware VPN Access

With this subnet, you can extend your network from the cloud and also directly access the Internet from your VPC.

- multi-tiered applications



Use AWS Direct Connect



AWS Direct Connect allows you to establish a private logical connection from your on-premises network directly to your Amazon VPC. It provides a private, high-bandwidth network connection between your network and your VPC.

AMAZON VPC USE CASES

Amazon VPC is inherently flexible, allowing you to create a virtual network topology that best fits different use cases such as the following:

- Host a PCI-compliant e-commerce website
- Build a development and test environment
- Plan for disaster recovery and business continuity
- Extend your data center into the cloud
- Create branch office and business unit networks

AMAZON VPC BEST PRACTICES

To fully maximize the benefits of Amazon VPC, consider these best practices:

- Automate infrastructure deployment
- Enable high availability using multi-AZ deployments in VPC
- Use security groups and network ACLs
- Control access with IAM users and policies
- Use Amazon CloudWatch for health monitoring of your VPC instances and VPN link

Make Amazon VPC Deployment Easier with Nsight



Although Amazon VPC on AWS is designed for easy implementation, setting it up may still require deep AWS expertise to avoid errors and additional costs. Nsight understands that it can be complicated and difficult for non-AWS experts.

Why Nsight?

- A system integrator with deep expertise and competency
- Extremely familiar with AWS Cloud Integration
- Has wide knowledge and expertise in integrating CRM Cloud to multiple software systems
- Experienced in all types of CRM data integration, mobile technologies, and cloud integration applications
- A team player that works with internal teams and vendors collaboratively

About

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Founded in May 2005, Nsight delivers best-in-class IT services, solutions, and staffing for leading organizations. Its capabilities include high-value consulting services and solutions around SAP, Oracle, Microsoft, Cloud and Mobility where it brings Big Four consulting experience and talent to deliver successful projects for its clients.

References:

- <https://d0.awsstatic.com/whitepapers/extend-your-it-infrastructure-with-amazon-vpc.pdf>
- <http://docs.aws.amazon.com/AmazonVPC/latest/UserGuide/VPC.Scenarios.html>
- <https://aws.amazon.com/vpc/faqs/>

