

# Tableau Server on the AWS Cloud

## Quick Start Reference Deployment

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## Overview

This Quick Start deployment guide provides step-by-step instructions for deploying Tableau Server on the Amazon Web Services (AWS) Cloud. [Quick Starts](#) are automated reference deployments that use AWS CloudFormation templates to launch, configure, and run the AWS compute, network, storage, and other services required to deploy a specific workload on AWS.

Tableau Server is an online solution for sharing, distributing, and collaborating on business intelligence content created in Tableau. Tableau Server users can create workbooks and views, dashboards, and data sources in Tableau Desktop, and then publish this content to the server. Tableau Server site and server administrators control who has access to server content to help protect sensitive data. Administrators can set user permissions on projects, workbooks, views, and data sources. Users can see and interact with the most up-to-date server content from anywhere, whether they use a browser or a mobile device.

This Quick Start is for IT infrastructure architects, administrators, and DevOps professionals who are planning to implement or extend their Tableau Server workloads to the AWS Cloud.

## Costs and Licenses

You are responsible for the cost of the AWS services used while running this Quick Start reference deployment. There is no additional cost for using the Quick Start.

See the pricing pages for each AWS service you will be using for cost estimates.

This Quick Start requires a license for Tableau Server, as described in the [Prerequisites](#) section. If you choose the standalone deployment option, you can also use a 14-day trial version of Tableau Server, which is free of charge.

## Prerequisites

### Specialized Knowledge

Before you deploy this Quick Start, we recommend that you become familiar with the following AWS services. (If you are new to AWS, see [Getting Started with AWS](#).)

- [AWS Certificate Manager \(ACM\)](#)
- [Amazon Elastic Block Store \(Amazon EBS\)](#)
- [Amazon Elastic Compute Cloud \(Amazon EC2\)](#)
- [Amazon Route 53](#)
- [Amazon Virtual Private Cloud \(Amazon VPC\)](#)
- [Elastic Load Balancing](#)

### Technical Requirements

Before deploying Tableau Server on AWS, you must have the following:

- An AWS account.
- An Amazon EC2 key pair.
- A Tableau Server trial license or product key.
  - For a standalone deployment, you can use a 14-day trial version of Tableau Server, which doesn't require the use of a product key.
  - For a cluster-based deployment, you need a user-based server license (which covers all authorized users of Tableau Server) or a core-based server license (with a minimum of 16 cores). To obtain a product key, contact [sales@tableau.com](mailto:sales@tableau.com).
- (Optional) A domain managed by Amazon Route 53.
- (Optional) An SSL certificate managed by AWS Certificate Manager in the region where you are deploying Tableau Server.

## Deployment Options

This Quick Start supports two standardized architectures and provides three automatic deployment options for Tableau Server:

- **Standalone architecture** – Installs Tableau Server on an Amazon EC2 m4.4xlarge instance running Windows Server 2012 R2 with an Amazon EBS volume of 100 GiB. This architecture is deployed into your [default VPC](#). If you don't have a default VPC in the region you'd like to deploy this Quick Start into, or if the default VPC has been modified, please contact [AWS Support](#) for help in recovering the default VPC.
- **Cluster architecture** – Installs Tableau Server on three EC2 m4.4xlarge instances. Each instance runs Windows Server 2012 R2 and is configured with a 100-GiB EBS volume. The Quick Start provides two deployment options for this scenario:
  - **Deploy Tableau Server into a new VPC** (end-to-end deployment). This option builds a new AWS environment consisting of the VPC, subnets, NAT gateways, security groups, bastion host (on an EC2 t2.micro instance), and other infrastructure components, and then deploys Tableau Server into that new VPC. Optionally, you can use an SSL certificate with this stack for enhanced security.
  - **Deploy Tableau Server into an existing VPC**. This option provisions Tableau Server in your existing AWS infrastructure.

All three deployment options automatically install the latest version of Tableau Server.

**Note** The Quick Start deployments use the default configuration settings of Tableau Server, including local authentication. For deployments with custom configurations, including using Active Directory authentication, see [Additional Resources](#).

## Tableau Server Standalone Deployment Steps

This option deploys Tableau Server on an EC2 m4.4xlarge instance running Windows Server 2012 R2 with a 100-GiB EBS volume in the default VPC of the AWS Region specified in the AWS CloudFormation template.

### Architecture

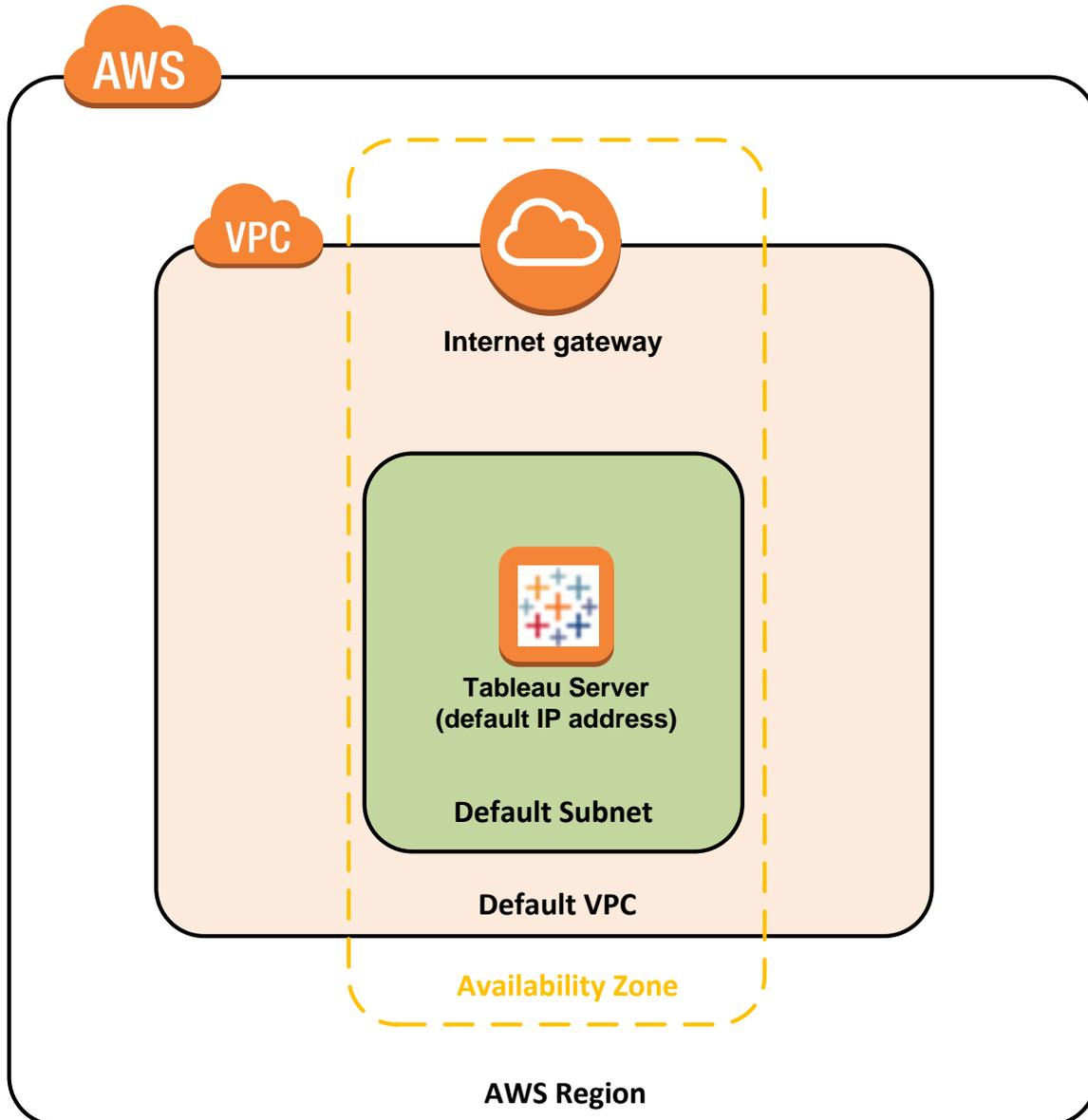


Figure 1: Quick Start Tableau Server standalone architecture on AWS

## Step 1. Prepare an AWS Account

1. If you don't already have an AWS account, create one at <http://aws.amazon.com> by following the on-screen instructions.
2. Use the region selector in the navigation bar to choose the AWS Region where you want to deploy Tableau Server on AWS.
3. Create a [key pair](#) in your preferred region. To do this, in the navigation pane of the Amazon EC2 console, under **Network & Security**, choose **Key Pairs**, and then click **Create Key Pair**.
4. If necessary, [request a service limit increase](#) for the EC2 m4.4xlarge instance. You might need to do this if you already have an existing deployment that uses this instance type, and you think you might exceed the [default limit](#) with this reference deployment.

## Step 2. Launch the Quick Start

1. [Launch the AWS CloudFormation template into your AWS account](#) to deploy Tableau Server on a standalone EC2 instance.

A blue rectangular button with rounded corners containing the word "Launch" in white text.

This stack takes approximately 35 minutes to create.

This template is launched in the US West (Oregon) region by default. You can change the region to match what you selected in [step 1](#) by using the region selector in the navigation bar.

**Note** You are responsible for the cost of the AWS services used while running this Quick Start reference deployment. There is no additional cost for using this Quick Start. See the pricing pages for each AWS service you will be using for full details.

You can also [download the template](#) to use as a starting point for your own implementation.

2. On the **Select Template** page, keep the default setting for the template URL, and then choose **Next**.

- On the **Specify Details** page, review the parameters for the template. Enter values for the parameters that require your input. For all other parameters, you can customize the default settings provided by the template.

#### *AWS Environment:*

Parameter label (name)	Default	Description
<b>Key Pair Name</b> (KeyPairName)	<i>Requires input</i>	Public/private key pair, which allows you to connect securely to your instance after it launches. When you created an AWS account, this is the key pair you created in your preferred region.
<b>Target Availability Zone</b> (ResourceAvailabilityZone)	<i>Requires input</i>	The <a href="#">Availability Zone</a> where the server and storage volume will reside.
<b>Source CIDR for Access</b> (SourceCIDR)	<i>Requires input</i>	The CIDR address from which you will connect to the instance.  <i>We recommend that you set this value to a trusted CIDR block to restrict access to IP addresses from only your network.</i>

#### *Configure Initial Tableau Admin User:*

Parameter label (name)	Default	Description
<b>Portal Admin Username</b> (ContentAdminUser)	admin	The Tableau Server administrator's user name.
<b>Portal Admin Password</b> (ContentAdminPassword)	<i>Requires input</i>	The Tableau Server administrator's password.

#### *Registration:*

Parameter label (name)	Default	Description
<b>Tableau Activation Key</b> (TableauServerLicenseKey)	—	The Tableau Server license key. To obtain a license key, contact <a href="mailto:sales@tableau.com">sales@tableau.com</a> .  <i>If the license key isn't specified, Tableau Server will automatically be activated with a 14-day trial.</i>
<b>First Name</b> (RegFirstName)	<i>Requires input</i>	First name of the Tableau Server user.
<b>Last Name</b> (RegLastName)	<i>Requires input</i>	Last name of the Tableau Server user.
<b>Email Address</b> (RegEmail)	<i>Requires input</i>	Email address of the Tableau Server user.
<b>Company</b> (RegCompany)	<i>Requires input</i>	Company that the Tableau Server user works for.

Parameter label (name)	Default	Description
<b>Title</b> (RegTitle)	<i>Requires input</i>	Job title of the Tableau Server user.
<b>Department</b> (RegDepartment)	<i>Requires input</i>	Department of the Tableau Server user.
<b>Industry</b> (RegIndustry)	<i>Requires input</i>	Industry that the Tableau Server user works in.
<b>Phone</b> (RegPhone)	<i>Requires input</i>	Telephone number of the Tableau Server user.
<b>City</b> (RegCity)	<i>Requires input</i>	City that the Tableau Server user lives in.
<b>State</b> (RegState)	<i>Requires input</i>	State that the Tableau Server user lives in.
<b>Zip/Postal Code</b> (RegZip)	<i>Requires input</i>	Zip code or postal code of the Tableau Server user.
<b>Country</b> (RegCountry)	<i>Requires input</i>	Country that the Tableau Server user lives in.

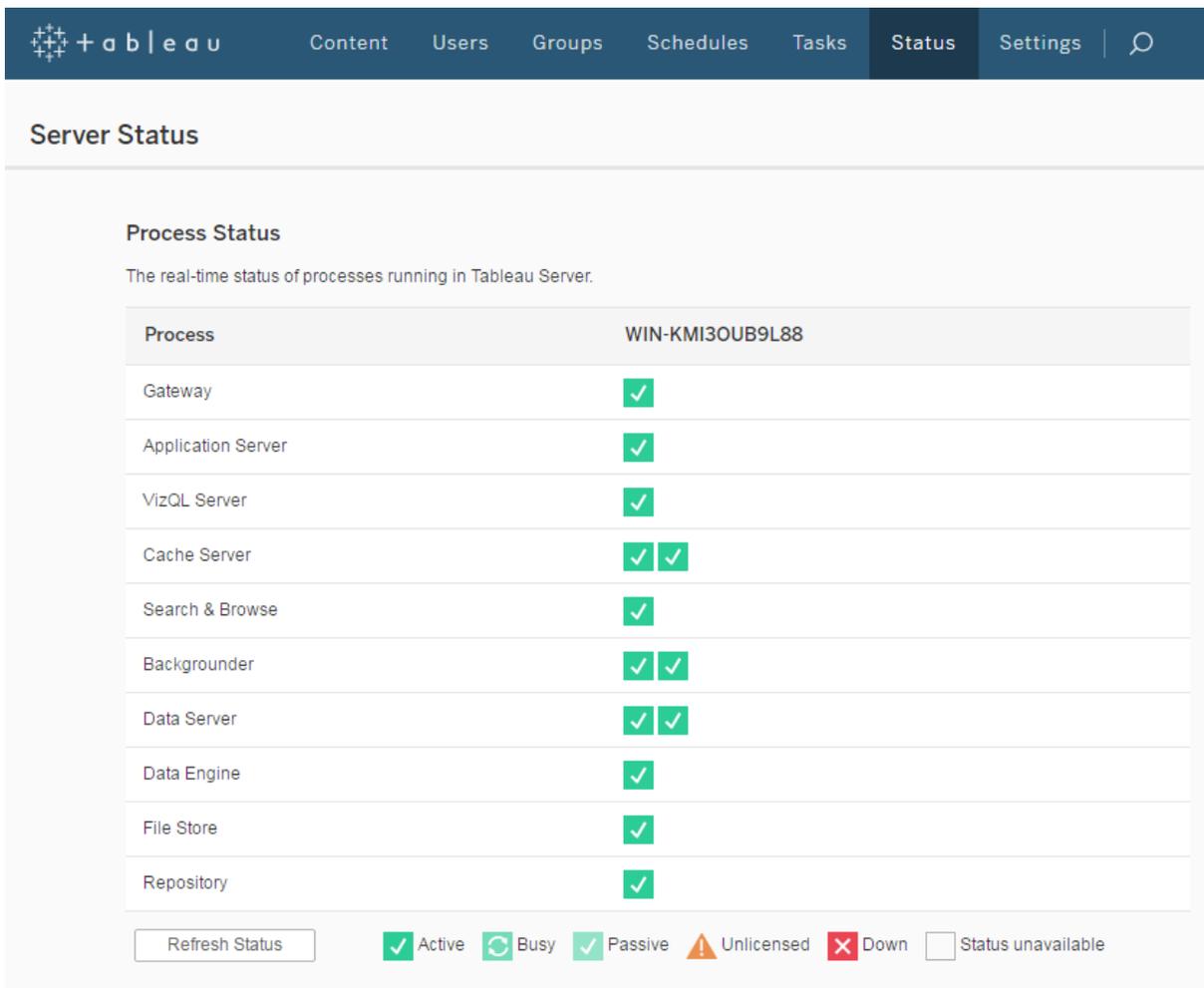
When you finish reviewing and customizing the parameters, choose **Next**.

- On the **Options** page, [specify tags](#) (key-value pairs) for resources in your stack and [set advanced options](#). When you're done, choose **Next**.
- On the **Review** page, review and confirm the template settings. Under **Capabilities**, acknowledge that the template will create IAM resources.
- Choose **Create** to deploy the stack.
- Monitor the status of the stack. When the status is **CREATE\_COMPLETE**, the deployment is complete.
- Use the information displayed in the **Outputs** tab for the stack to view the resources that were created. The AWS CloudFormation template for Tableau Server creates the following outputs:

Output	Description
<b>InstanceID</b>	ID of the EC2 instance running Tableau Server.
<b>PublicIPAddress</b>	Public IP address of the EC2 instance running Tableau Server.
<b>PublicDNSName</b>	Public DNS name of the EC2 instance running Tableau Server.

### Step 3. Test the Deployment

1. Navigate to the public IP address/host name for Tableau Server from an IP address within the CIDR you specified.
2. Log in to Tableau Server using the administrator credentials you provided as the **Portal admin username** and **Portal admin password** in the AWS CloudFormation template.
3. Navigate to the **Server Status** tab and verify that all processes have green checkmarks.



The screenshot shows the Tableau Server interface with the 'Status' tab selected. The 'Server Status' section displays the real-time status of processes running on the server instance WIN-KMI3OUB9L88. All processes are shown with green checkmarks, indicating they are active. A legend at the bottom identifies the status icons: Active (green checkmark), Busy (green refresh icon), Passive (green checkmark), Unlicensed (orange warning icon), Down (red X icon), and Status unavailable (grey square icon).

Process	WIN-KMI3OUB9L88
Gateway	✓
Application Server	✓
VizQL Server	✓
Cache Server	✓ ✓
Search & Browse	✓
Backgrounder	✓ ✓
Data Server	✓ ✓
Data Engine	✓
File Store	✓
Repository	✓

**Figure 2: Checking server status after standalone deployment**

4. Navigate to the **Tableau Samples** project, where you can view and interact with the workbooks stored there.
5. Now that you have your Tableau Server running, check out [Getting Started with Tableau Server](#) on ideas on how to get the most out of your Tableau Server instance.

## Tableau Server Cluster Deployment Steps

This option deploys Tableau Server on three EC2 m4.4xlarge instances: a primary server and two worker servers. Each instance runs Windows Server 2012 R2 and is configured with a 100-GiB EBS volume. In addition, if you use the end-to-end (new VPC) deployment option, this stack also creates a bastion host on an EC2 t2.micro instance. Optionally, you can use an SSL certificate with this stack for enhanced security.

### Architecture

To improve the security of your Tableau Server installation, Tableau recommends the use of SSL for protected communication with clients. Note that all examples that use SSL assume the use of AWS Certificate Manager and Amazon Route 53.

Deploying Tableau Server in a cluster with SSL using this Quick Start with the **default parameters** builds the following Tableau Server environment in the AWS Cloud.

**Note** The following resources are not shown: associations, route tables, route table entries, security groups, IAM roles, and instance profiles.

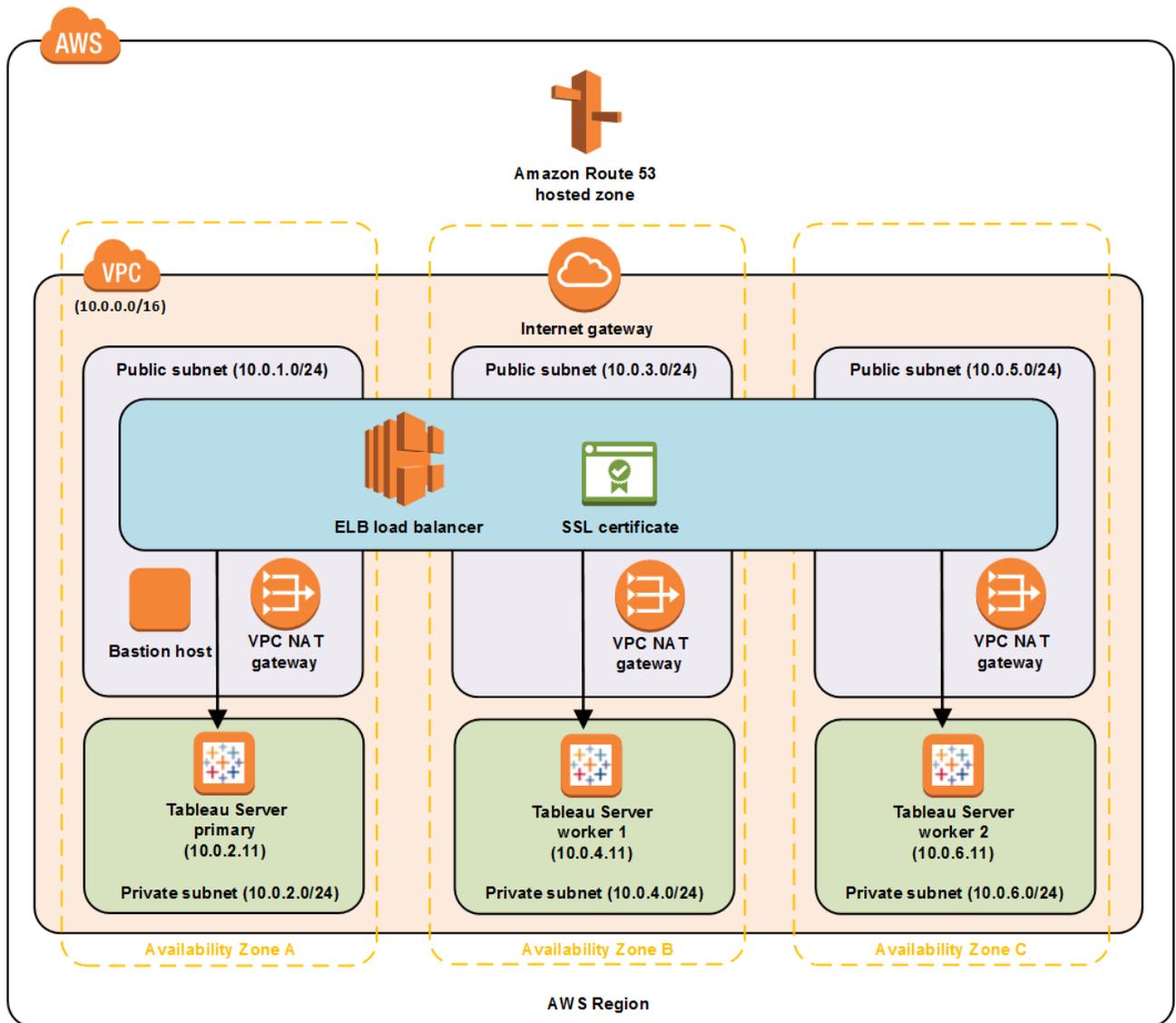


Figure 3: Quick Start Tableau Server cluster architecture on AWS

## Step 1. Prepare an AWS Account

1. If you don't already have an AWS account, create one at <http://aws.amazon.com> by following the on-screen instructions.
2. Use the region selector in the navigation bar to choose the AWS Region where you want to deploy Tableau Server on AWS. **You must deploy in a region that has at least three Availability Zones.**
3. Create a [key pair](#) in your preferred region. To do this, in the navigation pane of the Amazon EC2 console, under **Network & Security**, choose **Key Pairs**, and then click **Create Key Pair**.
4. If necessary, [request a service limit increase](#) for the EC2 m4.4xlarge instance. You might need to do this if you already have an existing deployment that uses this instance type, and you think you might exceed the [default limit](#) with this reference deployment. The same applies for Elastic IP addresses.
5. If you plan to deploy Tableau Server into an existing VPC, you'll need an existing Elastic Load Balancing (ELB) load balancer. For more information about creating a load balancer, see [Create a Classic Load Balancer](#) in the AWS documentation.

## Step 2. Launch the Quick Start

**Note** You are responsible for the cost of the AWS services used while running this Quick Start reference deployment. There is no additional cost for using this Quick Start. For full details, see the pricing pages for each AWS service you will be using in this Quick Start. Prices are subject to change.

1. Choose one of the following options to launch the AWS CloudFormation template into your AWS account. For help choosing an option, see [deployment options](#) earlier in this guide.

<p><b>Option 1</b></p> <p>Deploy Tableau Server into a new VPC on AWS</p> <p><b>Launch</b></p>	<p><b>Option 2</b></p> <p>Deploy Tableau Server into an existing VPC on AWS</p> <p><b>Launch</b></p>
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**Important** If you're deploying Tableau Server into an existing VPC, make sure that your VPC has three private subnets in three different Availability Zones for the Tableau Server instances. You should also have three public subnets for the ELB load balancer. These subnets require [NAT gateways or NAT instances](#) in their route tables, to allow the instances to download packages and software without exposing them to the Internet. You'll also need the domain name option configured in the DHCP options as explained in the [Amazon VPC documentation](#). You'll be prompted for your VPC settings when you launch the Quick Start.

Each deployment takes approximately one hour to complete.

2. Check the region that's displayed in the upper-right corner of the navigation bar, and change it if necessary. This is where Tableau Server will be deployed. The template is launched in the US West (Oregon) Region by default. You must choose a region that has at least three Availability Zones.
3. On the **Select Template** page, keep the default setting for the template URL, and then choose **Next**.
4. On the **Specify Details** page, change the stack name if needed. Review the parameters for the template. Provide values for the parameters that require input. For all other parameters, review the default settings and customize them as necessary. When you finish reviewing and customizing the parameters, choose **Next**.

In the following tables, parameters are listed by category and described separately for the two deployment options:

- [Parameters for deploying Tableau Server into a new VPC](#)
- [Parameters for deploying Tableau Server into an existing VPC](#)

- **Option 1: Parameters for deploying Tableau Server into a new VPC**

[View template](#)

#### Network Configuration:

Parameter	Default	Description
<b>Availability Zones</b> (AvailabilityZones)	<i>Requires Input</i>	Select three Availability Zones appropriate for the region where you're installing Tableau Server on AWS. The Quick Start requires three Availability Zones and preserves the logical order you specify.
<b>Source CIDR for Access</b> (SourceCIDR)	<i>Requires input</i>	The CIDR address from which you will connect to the instance. <i>We recommend that you set this value to a trusted CIDR block to restrict access to IP addresses from only your network.</i>

#### Server DNS Configuration:

Parameter	Default	Description
<b>SSL Certificate ARN</b> (SSLCertificateARN)	—	The Amazon Resource Name (ARN) for the existing SSL certificate you want to use. Leave blank if you don't want to use an SSL certificate. <i>For use only when installing on an SSL-enabled cluster.</i>
<b>Full DNS Name for Cluster</b> (AWSPublicFQDN)	—	The DNS address for the Tableau Server portal. <i>Leave blank if you aren't assigning a DNS name.</i>
<b>DNS Zone ID</b> (AWSHostedZoneID)	—	The DNS zone ID that contains the cluster's DNS entry. <i>Leave blank if you aren't assigning a DNS name.</i>

#### Amazon EC2 Configuration:

Parameter	Default	Description
<b>Key Pair Name</b> (KeyPairName)	<i>Requires input</i>	Public/private key pair, which allows you to connect securely to your instance after it launches. When you created an AWS account, this is the key pair you created in your preferred region.

*Configure Initial Tableau Admin User:*

Parameter	Default	Description
<b>Portal Admin Username</b> (ContentAdminUser)	admin	The Tableau Server administrator's user name.
<b>Portal Admin Password</b> (ContentAdminPassword)	<i>Requires input</i>	The Tableau Server administrator's password.

*Registration:*

Parameter	Default	Description
<b>Tableau Activation Key</b> (TableauServerLicenseKey)	<i>Requires input</i>	The Tableau Server license key. To obtain a license key, contact <a href="mailto:sales@tableau.com">sales@tableau.com</a> .
<b>First Name</b> (RegFirstName)	<i>Requires input</i>	First name of the Tableau Server user.
<b>Last Name</b> (RegLastName)	<i>Requires input</i>	Last name of the Tableau Server user.
<b>Email Address</b> (RegEmail)	<i>Requires input</i>	Email address of the Tableau Server user.
<b>Company</b> (RegCompany)	<i>Requires input</i>	Company that the Tableau Server user works for.
<b>Title</b> (RegTitle)	<i>Requires input</i>	Job title of the Tableau Server user.
<b>Department</b> (RegDepartment)	<i>Requires input</i>	Department of the Tableau Server user.
<b>Industry</b> (RegIndustry)	<i>Requires input</i>	Industry that the Tableau Server user works in.
<b>Phone</b> (RegPhone)	<i>Requires input</i>	Telephone number of the Tableau Server user.
<b>City</b> (RegCity)	<i>Requires input</i>	City that the Tableau Server user lives in.
<b>State</b> (RegState)	<i>Requires input</i>	State that the Tableau Server user lives in.
<b>Zip/Postal Code</b> (RegZip)	<i>Requires input</i>	Zip code or postal code of the Tableau Server user.
<b>Country</b> (RegCountry)	<i>Requires input</i>	Country that the Tableau Server user lives in.

*AWS Quick Start Configuration:*

Parameter	Default	Description
<b>Quick Start S3 Bucket Name</b> (QSS3BucketName)	quickstart-reference	S3 bucket where the Quick Start templates and scripts are installed. Use this parameter to specify the S3 bucket name you've created for your copy of Quick Start assets, if you decide to customize or extend the Quick Start for your own use. The bucket name can include numbers, lowercase letters, uppercase letters, and hyphens, but should not start or end with a hyphen.
<b>Quick Start S3 Key Prefix</b> (QSS3KeyPrefix)	tableau/server/latest	The <a href="#">S3 key name prefix</a> used to simulate a folder for your copy of Quick Start assets, if you decide to customize or extend the Quick Start for your own use. This prefix can include numbers, lowercase letters, uppercase letters, hyphens, and forward slashes, but should not start or end with a forward slash (which is automatically added).

- **Option 2: Parameters for deploying Tableau Server into an existing VPC**

[View template](#)

*Network Configuration:*

Parameter label (name)	Default	Description
<b>Source CIDR for Access</b> (SourceCIDR)	<i>Requires input</i>	The CIDR address from which you will connect to the instance. <i>We recommend that you set this value to a trusted CIDR block to restrict access to IP addresses from only your network.</i>
<b>SSL Certificate ARN</b> (SSLCertificateARN)	—	The Amazon Resource Name (ARN) for the existing SSL certificate you want to use. Leave blank if you don't want to use an SSL certificate. <i>For use only when installing on an SSL-enabled cluster.</i>
<b>Full DNS Name for Cluster</b> (AWSPublicFQDN)	—	The DNS address for the Tableau Server portal. <i>Leave blank if you aren't assigning a DNS name.</i>
<b>VPC ID</b> (VPCID)	<i>Requires input</i>	ID of your existing VPC (e.g., vpc-0343606e).
<b>Primary AZ Public Subnet ID</b> (PrimaryPublicSubnetID)	<i>Requires input</i>	The ID of the public subnet in the primary server's Availability Zone.

Parameter label (name)	Default	Description
<b>Primary Server Subnet ID</b> (PrimarySubnetID)	<i>Requires input</i>	ID of the private subnet in the first Availability Zone in your existing VPC for the primary server (e.g., subnet-a0246dcd).
<b>Worker1 AZ Public Subnet ID</b> (Worker1PublicSubnetID)	<i>Requires input</i>	The ID of the public subnet in the first worker server's Availability Zone.
<b>Worker1 Server Subnet ID</b> (Worker1Subnet1ID)	<i>Requires input</i>	ID of the private subnet in the second Availability Zone in your existing VPC for the first worker server (e.g., subnet-b58c3d67).
<b>Worker2 AZ Public Subnet ID</b> (Worker2PublicSubnetID)	<i>Requires input</i>	The ID of the public subnet in the second worker server's Availability Zone.
<b>Worker2 Server Subnet ID</b> (Worker2Subnet1ID)	<i>Requires input</i>	ID of the private subnet in the third Availability Zone in your existing VPC for the second worker server (e.g., subnet-b58c3d67).

### Amazon EC2 Configuration:

Parameter	Default	Description
<b>Key Pair Name</b> (KeyPairName)	<i>Requires input</i>	Public/private key pair, which allows you to connect securely to your instance after it launches. When you created an AWS account, this is the key pair you created in your preferred region.
<b>Primary Server IP</b> (PrimaryIP)	10.0.2.11	Fixed IP for the primary server in your existing VPC.
<b>Worker1 IP</b> (Worker1IP)	10.0.4.11	Fixed IP for the first worker server in your existing VPC.
<b>Worker2 IP</b> (Worker2IP)	10.0.6.11	Fixed IP for the second worker server in your existing VPC.

### Configure Initial Tableau Admin User:

Parameter	Default	Description
<b>Portal admin username</b> (ContentAdminUser)	admin	The Tableau Server administrator's user name.
<b>Portal admin password</b> (ContentAdminPassword)	<i>Requires input</i>	The Tableau Server administrator's password.

*Registration:*

Parameter	Default	Description
<b>Tableau Activation Key</b> (TableauServerLicenseKey)	<i>Requires input</i>	The Tableau Server license key. To obtain a license key, contact <a href="mailto:sales@tableau.com">sales@tableau.com</a> .
<b>First name</b> (RegFirstName)	<i>Requires input</i>	First name of the Tableau Server user.
<b>Last name</b> (RegLastName)	<i>Requires input</i>	Last name of the Tableau Server user.
<b>Email address</b> (RegEmail)	<i>Requires input</i>	Email address of the Tableau Server user.
<b>Company</b> (RegCompany)	<i>Requires input</i>	Company that the Tableau Server user works for.
<b>Title</b> (RegTitle)	<i>Requires input</i>	Job title of the Tableau Server user.
<b>Department</b> (RegDepartment)	<i>Requires input</i>	Department of the Tableau Server user.
<b>Industry</b> (RegIndustry)	<i>Requires input</i>	Industry that the Tableau Server user works in.
<b>Phone</b> (RegPhone)	<i>Requires input</i>	Telephone number of the Tableau Server user.
<b>City</b> (RegCity)	<i>Requires input</i>	City that the Tableau Server user lives in.
<b>State</b> (RegState)	<i>Requires input</i>	State that the Tableau Server user lives in.
<b>Zip/Postal Code</b> (RegZip)	<i>Requires input</i>	Zip code or postal code of the Tableau Server user.
<b>Country</b> (RegCountry)	<i>Requires input</i>	Country that the Tableau Server user lives in.

- On the **Options** page, you can [specify tags](#) (key-value pairs) for resources in your stack and [set advanced options](#). When you're done, choose **Next**.
- On the **Review** page, review and confirm the template settings. Under **Capabilities**, select the check box to acknowledge that the template will create IAM resources.
- Choose **Create** to deploy the stack.
- Monitor the status of the stack. When the status is **CREATE\_COMPLETE**, the deployment is complete.

9. Use the information displayed in the **Outputs** tab for the stack to view the resources that were created. The AWS CloudFormation template for Tableau Server creates the following outputs:

- **Option 1: Outputs when deploying Tableau Server into a new VPC**

Output	Description
<b>LoadBalancerDirectDNSName</b>	Direct DNS name of load balancer.
<b>VPCID</b>	ID of the VPC created by the Quick Start.
<b>BastionDNSName</b>	Public DNS name of bastion host.
<b>ClusterDNSName</b>	Public DNS name to reach cluster (assigned by user)

- **Option 2: Outputs when deploying Tableau Server into an existing VPC**

Output	Description
<b>Worker1SubnetID</b>	Subnet ID for the first worker server.
<b>PrimarySubnetID</b>	Subnet ID of the primary server.
<b>Worker1InstanceID</b>	Instance ID of the first worker server.
<b>LoadBalancerID</b>	ID of the ELB load balancer.
<b>SecurityGroup</b>	The security group that the instances belong to.
<b>LoadBalancerCanonicalHostedZoneNameID</b>	Amazon Route 53 zone ID of the domain for the ELB load balancer.
<b>LoadBalancerDNSName</b>	Direct DNS name for the ELB load balancer.
<b>PrimaryInstanceID</b>	Instance ID of the primary server.
<b>Worker2InstanceID</b>	Instance ID of the second worker server.
<b>Worker2SubnetID</b>	Subnet ID for the second worker server.

### Step 3. Test the Deployment

1. Navigate to the **ClusterDNSName** (use HTTPS if you're using an SSL certificate) or the **LoadBalancerDirectDNSName** for the Tableau Server from an IP address within the CIDR you specified.
2. Log in to Tableau Server using the administrator credentials you provided as the **Portal admin username** and **Portal admin password** in the AWS CloudFormation template.
3. Navigate to the **Server Status** tab and verify that all processes have green checkmarks.

The screenshot shows the Tableau Server Status page. At the top is a navigation bar with the Tableau logo and menu items: Content, Users, Groups, Schedules, Tasks, Status (selected), and Settings. Below the navigation bar is the 'Server Status' section. Underneath is the 'Process Status' section, which includes a sub-header 'Process Status' and a description: 'The real-time status of processes running in Tableau Server.' Below this is a table with columns for 'Process', 'Primary 10.0.2.11', 'Worker 1 10.0.4.11', and 'Worker 2 10.0.6.11'. The table lists various processes and their status on each node. At the bottom of the table is a legend for status icons: Active (green checkmark), Busy (green refresh), Passive (green checkmark), Unlicensed (orange warning triangle), Down (red X), and Status unavailable (grey square). A 'Refresh Status' button is also present.

Process	Primary 10.0.2.11	Worker 1 10.0.4.11	Worker 2 10.0.6.11
Cluster Controller	✓	✓	✓
Gateway	✓	✓	✓
Application Server		✓ ✓	✓ ✓
VizQL Server		✓ ✓	✓ ✓
Cache Server		✓ ✓	✓ ✓
Search & Browse	✓	✓	✓
Backgrounder		✓	✓
Data Server		✓	✓
Data Engine		✓	✓
File Store		🔄 Synchronizing	🔄 Synchronizing
Repository		✓	✓

Refresh Status    ✓ Active    🔄 Busy    ✓ Passive    ⚠ Unlicensed    ✖ Down    □ Status unavailable

Figure 4: Checking server status after cluster deployment

4. Navigate to the **Tableau Samples** project, where you can view and interact with the workbooks stored there.
5. Now that you have your Tableau Server running, check out [Getting Started with Tableau Server](#) on ideas on how to get the most out of your Tableau Server instance.

## Troubleshooting

**Q.** I cannot connect to Tableau Server, or the web interface times out.

**A.** Review your license key, Amazon Resource Names (ARNs), SSL certificates, and wildcards (host name must match the name in your SSL certificate), and check for data entry errors. Check the CIDR address to make sure that it matches the IP address ranges used in your network.

**Q.** I encountered a **CREATE\_FAILED** error when I launched the Quick Start. What should I do?

**A.** If AWS CloudFormation fails to create the stack, we recommend that you relaunch the template with **Rollback on failure** set to **No**. (This setting is under **Advanced** in the AWS CloudFormation console, **Options** page.) With this setting, the stack's state will be retained and the instance will be left running, so you can troubleshoot the issue. (You'll want to look at the log files in `%ProgramFiles%\Amazon\EC2ConfigService` and `C:\cfn\log`.)

**Important** When you set **Rollback on failure** to **No**, you'll continue to incur AWS charges for this stack. To avoid further charges, delete the stack when you've finished troubleshooting.

For additional information, see [Troubleshooting AWS CloudFormation](#) on the AWS website or contact us on the [AWS Quick Start Discussion Forum](#).

## Additional Resources

### AWS services

- AWS CloudFormation  
<http://aws.amazon.com/documentation/cloudformation/>
- Amazon EBS  
<http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/AmazonEBS.html>
- Amazon EC2  
<http://docs.aws.amazon.com/AWSEC2/latest/WindowsGuide/>
- Amazon VPC  
<http://aws.amazon.com/documentation/vpc/>

## Tableau Server

- Tableau Server on AWS  
<https://do.awsstatic.com/whitepapers/tableau-server-on-aws.pdf>
- Tableau Server: Everybody's Install Guide  
[https://onlinehelp.tableau.com/current/guides/everybody-install/en-us/everybody\\_admin\\_intro.htm](https://onlinehelp.tableau.com/current/guides/everybody-install/en-us/everybody_admin_intro.htm)
- Troubleshoot Tableau Server Install and Upgrade  
[https://onlinehelp.tableau.com/current/server/en-us/trouble\\_install\\_upgrade.htm](https://onlinehelp.tableau.com/current/server/en-us/trouble_install_upgrade.htm)
- Get Started with Tableau Server  
[https://onlinehelp.tableau.com/current/server/en-us/get\\_started\\_server.htm](https://onlinehelp.tableau.com/current/server/en-us/get_started_server.htm)
- Tableau Server Administrator Guide  
<https://onlinehelp.tableau.com/current/server/en-us/admin.htm>

## Quick Start reference deployments

- AWS Quick Start home page  
<https://aws.amazon.com/quickstart/>

## Send Us Feedback

We welcome your questions and comments. Please post your feedback on the [AWS Quick Start Discussion Forum](#).

You can visit our [GitHub repository](#) to download the templates and scripts for this Quick Start, and to share your customizations with others.

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