

Tableau Server on the AWS Cloud

Quick Start Reference Deployment

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This Quick Start deployment guide was created by Tableau Software in collaboration with Amazon Web Services (AWS).

[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.

Overview

This Quick Start deployment guide provides step-by-step instructions for deploying Tableau Server on the AWS Cloud.

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 on 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 the [Getting Started Resource Center](#).

- [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.
- (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 automatic deployment options for Tableau Server:

- **Standalone architecture** – Installs Tableau Server on an Amazon EC2 m5.4xlarge instance running Microsoft Windows Server 2012 R2, CentOS 7 x86_64 HVM, or Ubuntu Server 16.04-LTS-HVM. This architecture is deployed into a new VPC or your existing VPC. For new VPC deployments, the Quick Start creates an AWS environment consisting of the VPC, subnets, and other infrastructure components, and then deploys Tableau Server into that VPC.
- **Cluster architecture** – Installs Tableau Server on at least three Amazon EC2 m4.4xlarge instances running Microsoft Windows Server 2012 R2, CentOS 7 x86_64 HVM, or Ubuntu Server 16.04-LTS-HVM. All nodes in the cluster run the same operating system. This option builds a new AWS environment consisting of the VPC, subnets, NAT gateways, security groups, bastion host (on an Amazon EC2 t2.micro instance), and other infrastructure components, and then deploys Tableau Server into that new VPC, or into your existing VPC. Optionally, you can use an SSL certificate with this stack for enhanced security. We provide the following deployment options for this scenario:
 - **Deploy Tableau Server on Microsoft Windows Server into a new VPC**
 - **Deploy Tableau Server on Microsoft Windows Server into an existing VPC**
 - **Deploy Tableau Server on CentOS or Ubuntu Server into a new VPC**
 - **Deploy Tableau Server on CentOS or Ubuntu Server into an existing VPC**

All 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 Amazon EC2 m5.4xlarge instance running Windows Server, CentOS, or Ubuntu Server with a 100 gibibyte (GiB) EBS volume in a new or existing VPC in the AWS Region you choose when you deploy the Quick Start. Figure 1 shows the standalone architecture.

Architecture

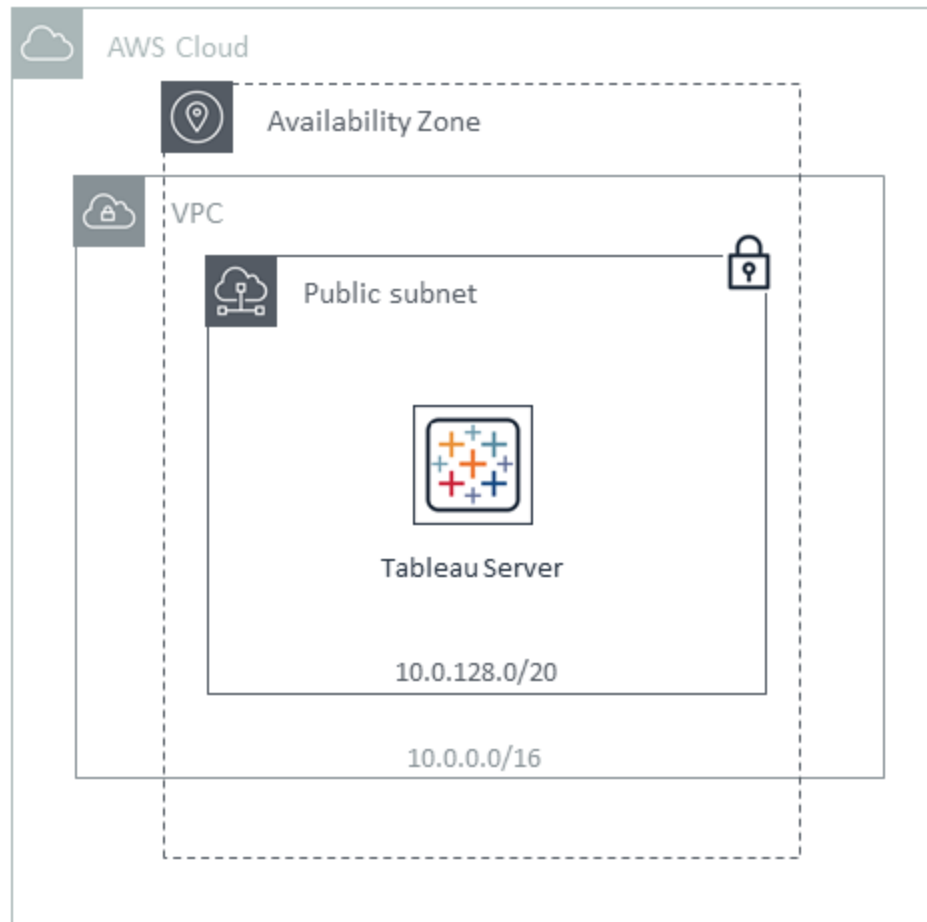


Figure 1: Quick Start Tableau Server standalone architecture on AWS

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. (Optional) Create an Amazon EC2 [security group](#) with the following inbound rules: HTTP port 80, HTTPS port 443, SSH port 22, and RDP port 3389. Limit the source IP address range to computers from your IP address range in CIDR notation.
5. If necessary, [request a service limit increase](#) for the Amazon EC2 **m5.4xlarge** 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

This AWS CloudFormation 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. You can also download the templates to use as a starting point for your own implementation, using the links provided before the parameter tables in this section.

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.

1. If you are using the CentOS operating system, subscribe to the [CentOS AMI in AWS Marketplace](#).

- Choose one of the following options to launch the AWS CloudFormation template into your AWS account.

Option 1 Deploy Tableau Server standalone into a new VPC on AWS Launch	Option 2 Deploy Tableau Server standalone into an existing VPC on AWS Launch
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- On the **Select Template** page, keep the default setting for the template URL, and then choose **Next**.
- On the **Specify Details** page, change the stack name if needed. 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. 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](#)

AWS Environment and Machine Configuration:

Parameter label (name)	Default	Description
Key Pair Name (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.
Availability Zones (AvailabilityZones)	<i>Requires input</i>	Select two Availability Zones appropriate for the region where you're installing Tableau Server on AWS. The Quick Start preserves the logical order you specify. This deployment uses only one of the Availability Zones you select.
Public Subnet 1 CIDR (PublicSubnet1CIDR)	10.0.128.0/20	The CIDR block for the public (DMZ) subnet located in Availability Zone 1.

Parameter label (name)	Default	Description
Public Subnet 2 CIDR (PublicSubnet2CIDR)	10.0.144.0/20	The CIDR block for the public (DMZ) subnet located in Availability Zone 2.
VPC CIDR (VPCCIDR)	10.0.0.0/16	The CIDR block for the VPC.
Source CIDR for Access (SourceCIDR)	<i>Requires input</i>	The CIDR address from which you will connect to the instance. We recommend that you set this value to a trusted CIDR block to restrict access to IP addresses from only your network. The CIDR block parameter must be in the form x.x.x.x/x.
Tableau Amazon EC2 instance type (InstanceType)	m5.4xlarge	The Amazon EC2 instance type where Tableau Server will be installed.
AMI Operating System (AMIOS)	CentOS-7-HVM	The operating system (Microsoft Windows Server, CentOS, or Ubuntu Server) on the Amazon EC2 instance where Tableau Server will be installed.

Secrets:

Parameter label (name)	Default	Description
Tableau Services Manager (TSM) administrator username (Username)	<i>Requires input</i>	(Linux only) The Tableau Services Manager (TSM) administrator's user name. You cannot use "tableau," "tsmagent," "admin," or "root" as the user name.
Tableau Services Manager (TSM) administrator password (Password)	<i>Requires input</i>	(Linux only) The Tableau Services Manager (TSM) administrator's password. Must be at least 6 characters.
Tableau Server administrator username (TableauServerAdminUser)	<i>Requires input</i>	The Tableau Server administrator's user name.
Tableau Server administrator password (TableauServerAdminPassword)	<i>Requires input</i>	The Tableau Server administrator's password. Must be at least 6 characters.

Registration:

Parameter label (name)	Default	Description
Accept Tableau End User License Agreement (AcceptEULA)	<i>Requires input</i>	View the EULA at https://www.tableau.com/eula .
Tableau Activation Key (TableauServerLicenseKey)	<i>Requires input</i>	The Tableau Server license key. Leave blank to use a free 14-day trial license. To obtain a license key, contact sales@tableau.com .
First Name (RegFirstName)	<i>Requires input</i>	First name of the Tableau Server user.
Last Name (RegLastName)	<i>Requires input</i>	Last name of the Tableau Server user.
Email Address (RegEmail)	<i>Requires input</i>	Email address of the Tableau Server user.
Company (RegCompany)	<i>Requires input</i>	Company that the Tableau Server user works for.
Title (RegTitle)	<i>Requires input</i>	Job title of the Tableau Server user.
Department (RegDepartment)	<i>Requires input</i>	Department of the Tableau Server user.
Industry (RegIndustry)	<i>Requires input</i>	Industry that the Tableau Server user works in.
Phone (RegPhone)	<i>Requires input</i>	Telephone number of the Tableau Server user.
City (RegCity)	<i>Requires input</i>	City that the Tableau Server user lives in.
State (RegState)	<i>Requires input</i>	State that the Tableau Server user lives in.
Zip/Postal Code (RegZip)	<i>Requires input</i>	Zip code or postal code of the Tableau Server user.
Country (RegCountry)	<i>Requires input</i>	Country that the Tableau Server user lives in.

AWS Quick Start Configuration:

Parameter label (name)	Default	Description
Quick Start S3 Bucket Name (QSS3BucketName)	aws-quickstart	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.
Quick Start S3 Key Prefix (QSS3KeyPrefix)	quickstart-tableau-server/	The S3 key name prefix 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](#)

AWS Environment and Machine Configuration:

Parameter label (name)	Default	Description
Key Pair Name (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.
VPC where you will deploy the server (VPCID)	<i>Requires input</i>	The ID of your existing VPC into which to deploy the cluster (e.g., vpc-0343606e).
Public Subnet ID (PublicSubnetID)	<i>Requires input</i>	The ID of the public subnet in the primary server's Availability Zone.
Source CIDR for Access (SourceCIDR)	<i>Requires input</i>	The CIDR address from which you will connect to the instance. We recommend that you set this value to a trusted CIDR block to restrict access to IP addresses from only your network. The CIDR block parameter must be in the form x.x.x.x/x.

Parameter label (name)	Default	Description
Tableau Amazon EC2 instance type (InstanceType)	m5.4xlarge	The Amazon EC2 instance type where Tableau Server will be installed.
AMI Operating System (AMIOS)	CentOS-7-HVM	The operating system (Microsoft Windows Server, CentOS, or Ubuntu Server) on the Amazon EC2 instance where Tableau Server will be installed.

Secrets:

Parameter label (name)	Default	Description
Tableau Services Manager (TSM) administrator username (Username)	<i>Requires input</i>	(Linux only) The Tableau Services Manager (TSM) administrator's user name. You cannot use "tableau," "tsmagent," "admin," or "root" as the user name.
Tableau Services Manager (TSM) administrator password (Password)	<i>Requires input</i>	(Linux only) The Tableau Services Manager (TSM) administrator's password. Must be at least 6 characters.
Tableau Server administrator username (TableauServerAdminUser)	<i>Requires input</i>	The Tableau Server administrator's user name.
Tableau Server administrator password (TableauServerAdminPassword)	<i>Requires input</i>	The Tableau Server administrator's password. Must be at least 6 characters.

Registration:

Parameter label (name)	Default	Description
Accept Tableau End User License Agreement (AcceptEULA)	<i>Requires input</i>	View the EULA at https://www.tableau.com/eula .
Tableau Activation Key (TableauServerLicenseKey)	<i>Requires input</i>	The Tableau Server license key. Leave blank to use a free 14-day trial license. To obtain a license key, contact sales@tableau.com .
First Name (RegFirstName)	<i>Requires input</i>	First name of the Tableau Server user.
Last Name (RegLastName)	<i>Requires input</i>	Last name of the Tableau Server user.

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

AWS Quick Start Configuration:

Parameter label (name)	Default	Description
Quick Start S3 Bucket Name (QSS3BucketName)	aws-quickstart	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.
Quick Start S3 Key Prefix (QSS3KeyPrefix)	quickstart-tableau-server/	The S3 key name prefix 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).

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

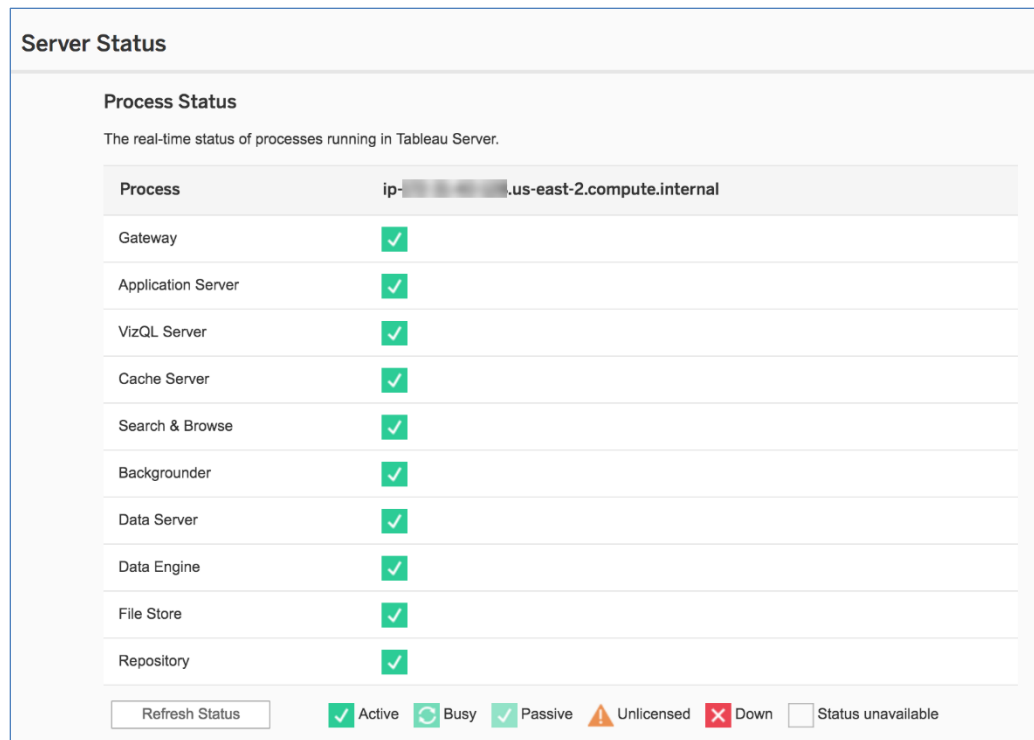
5. On the **Options** page, [specify tags](#) (key-value pairs) for resources in your stack and [set advanced options](#). When you're done, choose **Next**.
6. On the **Review** page, review and confirm the template settings. Under **Capabilities**, acknowledge that the template will create IAM resources.
7. Choose **Create** to deploy the stack.
8. 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:

Output	Description
InstanceID	ID of the Amazon EC2 instance running Tableau Server.
PublicIPAddress	Public IP address of the Amazon EC2 instance running Tableau Server.
TableauServerURL	URL for the 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 **Tableau Server administrator username** and **Tableau Server administrator password** in the AWS CloudFormation template.
3. Navigate to the **Server Status** tab and verify that all processes have green checkmarks, as shown in Figure 2.

Note The status page that you see might differ slightly from what is shown in Figure 2, depending on whether you're deploying Tableau Server on Windows Server or on Linux.



Server Status

Process Status

The real-time status of processes running in Tableau Server.

Process	ip-10-10-10-10.us-east-2.compute.internal
Gateway	✓
Application Server	✓
VizQL Server	✓
Cache Server	✓
Search & Browse	✓
Backgrounder	✓
Data Server	✓
Data Engine	✓
File Store	✓
Repository	✓

Refresh Status

✓ Active ⌂ Busy ✓ Passive ⚠ Unlicensed ✗ Down □ Status unavailable

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 [Get Started with Tableau Server \(Linux\)](#) and [Get Started with Tableau Server \(Windows\)](#) for ideas on how to get the most out of your Tableau Server instance.

Tableau Server Cluster Deployment Steps

This option deploys Tableau Server on Microsoft Windows Server, CentOS, or Ubuntu Server on three Amazon EC2 m4.4xlarge instances. Each instance 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 Amazon 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. 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, shown in Figure 3.

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

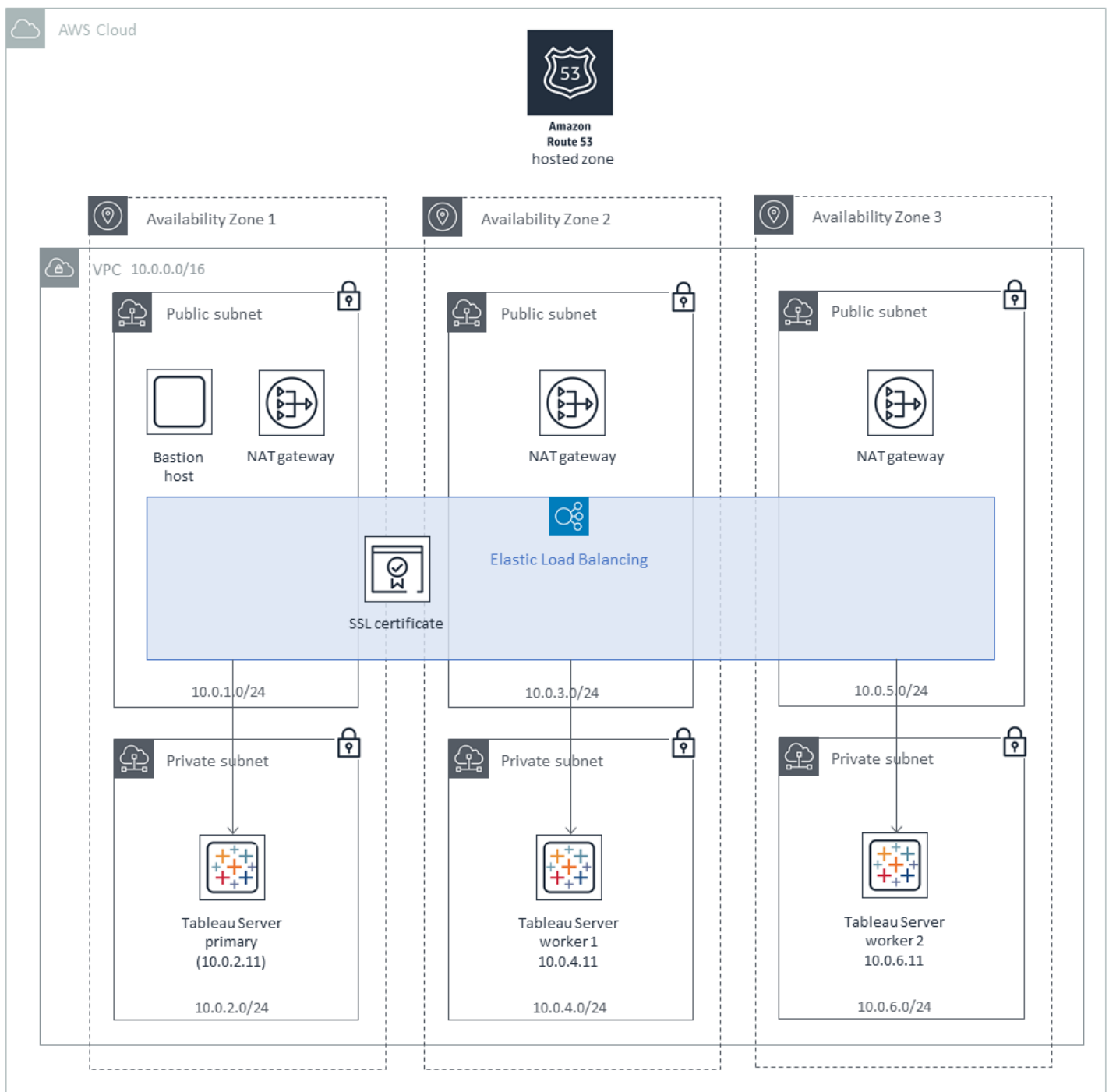


Figure 3: Quick Start Tableau Server cluster architecture on AWS

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. (Optional) Create an Amazon EC2 [security group](#) with the following inbound rules: HTTP port 80, HTTPS port 443, SSH port 22, and RDP port 3389. Limit the source IP address range to computers from your IP address range in CIDR notation.
5. If necessary, [request a service limit increase](#) for the Amazon 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.
6. 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. If you are using the CentOS operating system, subscribe to the [CentOS AMI in AWS Marketplace](#).
2. 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.

Option 1 Deploy Tableau Server on Windows Server into a new VPC on AWS	Option 2 Deploy Tableau Server on Windows Server into an existing VPC on AWS	Option 3 Deploy Tableau Server on CentOS or Ubuntu Server into a new VPC on AWS	Option 4 Deploy Tableau Server on CentOS or Ubuntu Server into an existing VPC on AWS
Launch	Launch	Launch	Launch

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.

3. 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.
4. On the **Select Template** page, keep the default setting for the template URL, and then choose **Next**.
5. 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 deployment options:

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

- [Parameters for deploying Tableau Server on CentOS or Ubuntu Server into a new VPC](#)
- [Parameters for deploying Tableau Server on CentOS or Ubuntu Server into an existing VPC](#)
- **Option 1: Parameters for deploying Tableau Server on Microsoft Windows Server into a new VPC**

[View template](#)

Network Configuration:

Parameter label (name)	Default	Description
Availability Zones (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.
Source CIDR for Access (SourceCIDR)	<i>Requires input</i>	The CIDR address from which you will connect to the instance. We recommend that you set this value to a trusted CIDR block to restrict access to IP addresses from only your network. The CIDR block parameter must be in the form x.x.x.x/x.

Server DNS Configuration:

Parameter label (name)	Default	Description
SSL Certificate ARN (SSLCertificateARN)		For use only when installing on an SSL-enabled cluster. Requires matching DNS name. 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.
Full DNS Name for Cluster (AWSPublicFQDN)		The DNS address for the Tableau Server portal. Leave blank if you aren't assigning a DNS name.
DNS Zone ID (AWSHostedZoneID)		The DNS zone ID that contains the cluster's DNS entry. Leave blank if you aren't assigning a DNS name.

Amazon EC2 Configuration:

Parameter label (name)	Default	Description
Key Pair Name (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 label (name)	Default	Description
Tableau Server administrator username (TableauServerAdminUser)	admin	The Tableau Server administrator's user name.
Tableau Server administrator password (TableauServerAdminPassword)	<i>Requires input</i>	The Tableau Server administrator's password.

Registration:

Parameter label (name)	Default	Description
Tableau Activation Key (TableauServerLicenseKey)	<i>Requires input</i>	The Tableau Server license key. To obtain a license key, contact sales@tableau.com .
First Name (RegFirstName)	<i>Requires input</i>	First name of the Tableau Server user.
Last Name (RegLastName)	<i>Requires input</i>	Last name of the Tableau Server user.
Email Address (RegEmail)	<i>Requires input</i>	Email address of the Tableau Server user.
Company (RegCompany)	<i>Requires input</i>	Company that the Tableau Server user works for.
Title (RegTitle)	<i>Requires input</i>	Job title of the Tableau Server user.
Department (RegDepartment)	<i>Requires input</i>	Department of the Tableau Server user.
Industry (RegIndustry)	<i>Requires input</i>	Industry that the Tableau Server user works in.
Phone (RegPhone)	<i>Requires input</i>	Telephone number of the Tableau Server user.
City (RegCity)	<i>Requires input</i>	City that the Tableau Server user lives in.

Parameter label (name)	Default	Description
State (RegState)	<i>Requires input</i>	State that the Tableau Server user lives in.
Zip/Postal Code (RegZip)	<i>Requires input</i>	Zip code or postal code of the Tableau Server user.
Country (RegCountry)	<i>Requires input</i>	Country that the Tableau Server user lives in.

AWS Quick Start Configuration:

Parameter label (name)	Default	Description
Quick Start S3 Bucket Name (QSS3BucketName)	aws-quickstart	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.
Quick Start S3 Key Prefix (QSS3KeyPrefix)	quickstart-tableau-server/	The S3 key name prefix 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 on Microsoft Windows Server into an existing VPC**

[View template](#)

Network Configuration:

Parameter label (name)	Default	Description
Source CIDR for Access (SourceCIDR)	<i>Requires input</i>	The CIDR address from which you will connect to the instance. We recommend that you set this value to a trusted CIDR block to restrict access to IP addresses from only your network. The CIDR block parameter must be in the form x.x.x.x/x
SSL Certificate ARN (SSLCertificateARN)		The Amazon Resource Name (ARN) for the existing SSL certificate you want to use. Leave

Parameter label (name)	Default	Description
		blank if you don't want to use an SSL certificate. For use only when installing on an SSL-enabled cluster.
Full DNS Name for Cluster (AWSPublicFQDN)		The DNS address for the Tableau Server portal. Leave blank if you aren't assigning a DNS name.
VPC ID (VPCID)	<i>Requires input</i>	The ID of your existing VPC into which to deploy the cluster (e.g., vpc-0343606e).
Primary AZ Public Subnet ID (PrimaryPublicSubnetID)	<i>Requires input</i>	The ID of the public subnet in the primary server's Availability Zone.
Primary Server Subnet ID (PrimarySubnetID)	<i>Requires input</i>	The ID of the private subnet in the first Availability Zone in your existing VPC for the primary server (e.g., subnet-a0246dcd).
Worker1 AZ Public Subnet ID (Worker1PublicSubnetID)	<i>Requires input</i>	The ID of the public subnet in the first worker server's Availability Zone.
Worker1 Server Subnet ID (Worker1Subnet1ID)	<i>Requires input</i>	The ID of the private subnet in the second Availability Zone in your existing VPC for the first worker server (e.g., subnet-b58c3d67).
Worker2 AZ Public Subnet ID (Worker2PublicSubnetID)	<i>Requires input</i>	The ID of the public subnet in the second worker server's Availability Zone.
Worker2 Server Subnet ID (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 label (name)	Default	Description
Key Pair Name (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.
Primary Server IP (PrimaryIP)	10.0.2.11	Fixed IP for the primary server in your existing VPC.
Worker1 IP (Worker1IP)	10.0.4.11	Fixed IP for the first worker server in your existing VPC.
Worker2 IP (Worker2IP)	10.0.6.11	Fixed IP for the second worker server in your existing VPC.

Configure Initial Tableau Admin User:

Parameter label (name)	Default	Description
Tableau Server administrator username (TableauServerAdminUser)	admin	The Tableau Server administrator's user name.
Tableau Server administrator password (TableauServerAdminPassword)	<i>Requires input</i>	The Tableau Server administrator's password.

Registration:

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

- **Option 3: Parameters for deploying Tableau Server on CentOS or Ubuntu Server into a new VPC**

[View template](#)

AWS Environment and Machine Configuration:

Parameter label (name)	Default	Description
Availability Zones (AvailabilityZones)	<i>Requires input</i>	List of Availability Zones (AZs) to use for the subnets in the VPC. The logical order is preserved and 3 AZs must be used for this deployment.
Amazon EC2 instance type (InstanceType)	m4.4xlarge	The Amazon EC2 instance type to be used in the cluster.
Number of additional Tableau Server instances (WorkerCount)	2	Number of additional nodes.
Key Pair Name (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.
AMI Operating System (AMIOS)	CentOS-7-HVM	The Linux distribution (CentOS or Ubuntu Server) for the Amazon Machine Image (AMI) to be used for the Amazon EC2 instances.
Source CIDR for Access (SourceCIDR)	<i>Requires input</i>	The CIDR address from which you will connect to the instance. We recommend that you set this value to a trusted CIDR block to restrict access to IP addresses from only your network. The CIDR block parameter must be in the form x.x.x.x/x.
Existing Security Group (ExistingSecurityGroup)		Optional. The name of an existing security group. Leave blank (the default) to automatically create a new security group.
EIP address for initial node (IPAddress)		Optional. The Elastic IP (EIP) address for the initial node. Leave blank if you don't want to use an EIP.

Server DNS Configuration:

Parameter label (name)	Default	Description
SSL Certificate ARN (Requires matching DNS name) (SSLCertificateARN)		Optional. The Amazon Resource Name (ARN) for the SSL certificate you want to use. Leave blank (the default) for none.
Full DNS name for cluster (AWSPublicFQDN)		Optional. The address where the Tableau Server portal can be reached. Leave blank (the default) if you aren't using DNS.
DNS Zone ID (AWSHostedZoneID)		Optional. The DNS zone ID that contains the cluster's DNS entry. Leave blank (the default) if you aren't using DNS.

Secrets:

Parameter label (name)	Default	Description
Tableau Services Manager (TSM) administrator user name (Username)	<i>Requires input</i>	The Tableau Services Manager (TSM) administrator's user name. You cannot use "tableau," "tsmagent," "admin," or "root" as the user name.
Tableau Services Manager (TSM) administrator password (Password)	<i>Requires input</i>	The Tableau Services Manager (TSM) administrator's password. The password must be at least six characters in length.
Tableau Server administrator username (TableauServerAdminUser)	<i>Requires input</i>	The Tableau Server administrator's user name.
Tableau Server administrator password (TableauServerAdminPassword)	<i>Requires input</i>	The Tableau Server administrator's password.

Registration:

Parameter label (name)	Default	Description
Accept Tableau End User License Agreement (AcceptEULA)	<i>Requires input</i>	View the EULA at https://www.tableau.com/eula .

Parameter label (name)	Default	Description
Tableau Activation Key (TableauServerLicenseKey)	<i>Requires input</i>	The Tableau Server license key.
First name (RegFirstName)	<i>Requires input</i>	First name of the Tableau Server user.
Last name (RegLastName)	<i>Requires input</i>	Last name of the Tableau Server user.
Email address (RegEmail)	<i>Requires input</i>	Email address of the Tableau Server user.
Company (RegCompany)	<i>Requires input</i>	Company that the Tableau Server user works for.
Title (RegTitle)	<i>Requires input</i>	Job title of the Tableau Server user.
Department (RegDepartment)	<i>Requires input</i>	Department of the Tableau Server user.
Industry (RegIndustry)	<i>Requires input</i>	Industry that the Tableau Server user works in.
Phone (RegPhone)	<i>Requires input</i>	Telephone number of the Tableau Server user.
City (RegCity)	<i>Requires input</i>	City that the Tableau Server user lives in.
State (RegState)	<i>Requires input</i>	State that the Tableau Server user lives in.
Zip/Postal Code (RegZip)	<i>Requires input</i>	Zip code or postal code of the Tableau Server user.
Country (RegCountry)	<i>Requires input</i>	Country that the Tableau Server user lives in.

AWS Quick Start Configuration:

Parameter label (name)	Default	Description
Quick Start S3 Bucket Name (QSS3BucketName)	aws-quickstart	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.

Parameter label (name)	Default	Description
Quick Start S3 Key Prefix (QSS3KeyPrefix)	quickstart- tableau-server/	The S3 key name prefix 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 4: Parameters for deploying Tableau Server on CentOS or Ubuntu Server into an existing VPC**

[View template](#)

AWS Environment and Machine Configuration:

Parameter label (name)	Default	Description
Target VPC (VpcId)	<i>Requires input</i>	ID of your existing VPC (e.g., vpc-0343606e).
Target Private Subnets (PrivateSubnetIds)	<i>Requires input</i>	The ID of the private subnet you want to use.
Target Public Subnets (PublicSubnetIds)	<i>Requires input</i>	The ID of the public subnet you want to use.
Amazon EC2 instance type (InstanceType)	m4.4xlarge	The Amazon EC2 instance type to be used in the cluster.
Number of additional Tableau Server instances (WorkerCount)	2	Number of additional nodes.
Key Pair Name (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.
AMI Operating System (AMIOS)	CentOS-7-HVM	The Linux distribution (CentOS or Ubuntu Server) for the Amazon Machine Image (AMI) to be used for the Amazon EC2 instances.
Source CIDR for Access (SourceCIDR)	<i>Requires input</i>	The CIDR address from which you will connect to the instance. We recommend that you set this value to a trusted CIDR block to restrict access to IP addresses from only your network. The CIDR block parameter must be in the form x.x.x.x/x.

Parameter label (name)	Default	Description
Existing Security Group (ExistingSecurityGroup)		Optional. The name of an existing security group. Leave blank (the default) to automatically create a new security group.
EIP address for initial node (IPAddress)		Optional. The Elastic IP (EIP) address for the initial node. Leave blank if you don't want to use an EIP.

Server DNS Configuration:

Parameter label (name)	Default	Description
SSL Certificate ARN (Requires matching DNS name) (SSLCertificateARN)		Optional. The Amazon Resource Name (ARN) for the SSL certificate you want to use. Leave blank (the default) for none.
Full DNS name for cluster (AWSPublicFQDN)		Optional. The address where the Tableau Server portal can be reached. Leave blank (the default) if you aren't using DNS.
DNS Zone ID (AWSHostedZoneID)		Optional. The DNS zone ID that contains the cluster's DNS entry. Leave blank (the default) if you aren't using DNS.

Secrets:

Parameter label (name)	Default	Description
Tableau Services Manager (TSM) administrator user name (Username)	<i>Requires input</i>	The Tableau Services Manager (TSM) administrator's user name. You cannot use "tableau," "tsmagent," "admin," or "root" as the user name.
Tableau Services Manager (TSM) administrator password (Password)	<i>Requires input</i>	The Tableau Services Manager (TSM) administrator's password. The password must be at least six characters in length.
Tableau Server administrator username (TableauServerAdminUser)	<i>Requires input</i>	The Tableau Server administrator's user name.
Tableau Server administrator password (TableauServerAdminPassword)	<i>Requires input</i>	The Tableau Server administrator's password.

Registration:

Parameter label (name)	Default	Description
Accept Tableau End User License Agreement (AcceptEULA)	<i>Requires input</i>	View the EULA at https://www.tableau.com/eula .
Tableau Activation Key (TableauServerLicenseKey)	<i>Requires input</i>	The Tableau Server license key.
First name (RegFirstName)	<i>Requires input</i>	First name of the Tableau Server user.
Last name (RegLastName)	<i>Requires input</i>	Last name of the Tableau Server user.
Email address (RegEmail)	<i>Requires input</i>	Email address of the Tableau Server user.
Company (RegCompany)	<i>Requires input</i>	Company that the Tableau Server user works for.
Title (RegTitle)	<i>Requires input</i>	Job title of the Tableau Server user.
Department (RegDepartment)	<i>Requires input</i>	Department of the Tableau Server user.
Industry (RegIndustry)	<i>Requires input</i>	Industry that the Tableau Server user works in.
Phone (RegPhone)	<i>Requires input</i>	Telephone number of the Tableau Server user.
City (RegCity)	<i>Requires input</i>	City that the Tableau Server user lives in.
State (RegState)	<i>Requires input</i>	State that the Tableau Server user lives in.
Zip/Postal Code (RegZip)	<i>Requires input</i>	Zip code or postal code of the Tableau Server user.
Country (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.

9. Monitor the status of the stack. When the status is **CREATE_COMPLETE**, the deployment is complete.
10. 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:

- **Outputs when deploying Tableau Server on Microsoft Windows Server into a new VPC**

Output	Description
LoadBalancerDirectDNSName	Direct DNS name of load balancer.
VPCID	ID of the VPC created by the Quick Start.
BastionDNSName	Public DNS name of bastion host.
ClusterDNSName	When using an SSL certificate, the public DNS name to reach cluster (assigned by user).

- **Outputs when deploying Tableau Server on Microsoft Windows Server into an existing VPC**

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

- **Outputs when deploying Tableau Server on CentOS or Ubuntu Server into a new VPC**

Output	Description
TableauServerURL	URL for Tableau Server.

PrimaryServer	DNS address for the primary server.
LoadBalancerDNSName	Load balancer's direct DNS name.

- **Outputs when deploying Tableau Server on CentOS or Ubuntu Server into an existing VPC**

Output	Description
TableauServerURL	URL for Tableau Server.
PrimaryServer	DNS address for the primary server.
LoadBalancerDNSName	Load balancer's direct DNS name.
SecurityGroup	Security group that the instances belong to.

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** (Windows) or the **Tableau Server administrator username** and **Tableau Server administrator password** (Linux) in the AWS CloudFormation template.
3. Navigate to the **Server Status** tab and verify that all processes have green checkmarks, as shown in Figure 4.

Note The status page that you see might differ slightly from what is shown in Figure 2, depending on whether you're deploying Tableau Server on Windows Server or on Linux.

Server Status

Process Status
The real-time status of processes running in Tableau Server.

Process	Primary ip-██████████.us-west-1.compute.internal	Worker 1 ip-██████████.us-west-1.compute.internal	Worker 2 ip-██████████.us-west-1.compute.internal
Cluster Controller	✓	✓	✓
Gateway	✓	✓	✓
Application Server	✓ ✓	✓ ✓	✓ ✓
VizQL Server	✓ ✓	✓ ✓	✓ ✓
Cache Server	✓ ✓	✓ ✓	✓ ✓
Search & Browse	✓	✓	✓
Backgrounder	✓	✓	✓
Data Server	✓	✓	✓
Data Engine	✓	✓	✓
File Store	🔄 Synchronizing	🔄 Synchronizing	🔄 Synchronizing
Repository	✓		

✓ Active
🔄 Busy
✓ Passive
⚠ Unlicensed
✗ Down
□ Status unavailable

Figure 4: Checking server status after cluster deployment

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

Important Once Tableau Server is up and running in your AWS account, you might need to stop and restart it for a number of reasons (for example, to perform an upgrade, to apply new license keys, or to change settings). In these scenarios, we recommend that you [set the Tableau Server instance on standby status](#) in the Auto Scaling group for the duration of the restart. Otherwise, the Tableau Server instance might terminate itself and spin up a new, blank instance. When the restart is complete, you can put the Tableau Server instance back into service. (Note that you are billed for instances that are in a standby state.)

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. My Tableau Server installation on CentOS or Ubuntu Server failed.

A. Review the log files in /var/log/cloud-init.log and /var/log/message for information about what caused your installation failure.

Q. I encountered a **CREATE_FAILED** error when I launched the Quick Start.

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.

Q. I restarted my Tableau Server installation on AWS to perform an upgrade, and my Tableau Server instance was terminated.

A. If you want to restart your Tableau Server installation for any reason (for example, to perform an upgrade, to apply new license keys, or to change settings), we recommend that you [set the Tableau Server instance on standby status](#) in the Auto Scaling group for the duration of the restart. Otherwise, the Tableau Server instance might terminate itself and spin up a new, blank instance. When the restart is complete, you can put the Tableau Server instance back into service. (Note that you are billed for instances that are in a standby state.)

Git Repository

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

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 on Linux

- Tableau Server on Linux in the AWS Cloud
https://onlinehelp.tableau.com/current/server-linux/en-us/ts_aws_welcome.htm
- Tableau Server on Linux: Everybody's Install Guide
<https://onlinehelp.tableau.com/current/guides/everybody-install-linux/en-us/help.htm>
- Troubleshoot Tableau Server on Linux
https://onlinehelp.tableau.com/current/server-linux/en-us/troubleshoot_linux.htm
- Get Started with Tableau Server
https://onlinehelp.tableau.com/current/server-linux/en-us/get_started_server.htm
- Tableau Server Administrator Guide
<https://onlinehelp.tableau.com/current/server-linux/en-us/admin.htm>

Tableau Server on Windows

- Tableau Server on Windows in the AWS Cloud
https://onlinehelp.tableau.com/current/server/en-us/ts_aws_welcome.htm
- Tableau Server on Windows: Everybody's Install Guide
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
- Get Started with Tableau Server
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/>

Document Revisions

Date	Change	In sections
January 2019	Replaced the default VPC requirement for standalone deployments with two options: new VPC and existing VPC.	Deployment options Standalone Deployment Steps
August 2018	Added information related to subscribing to the CentOS AMI in AWS Marketplace	Standalone Deployment Steps Cluster Deployment Steps Step 2 (link to AMI is now included) Step 2 (link to AMI is now included)
May 2018	Added information related to new support for Linux, applicable to standalone and cluster architectures; deployment details for installing Tableau Server on an Amazon EC2 m4.4xlarge instance running Microsoft Windows Server 2012 R2, CentOS 7 x86_64 HVM, or Ubuntu Server 16.04-LTS-HVM	Deployment Options Standalone Deployment Steps Cluster Deployment Steps Step 2 (parameters for standalone architecture now include Linux) Step 2 (parameters for cluster architecture now include Linux)
February 2017	Initial publication	—

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