



Organization-wide deployments at Scale

Aruna Balasubramanian
Product Management

The Tableau Platform



Desktop



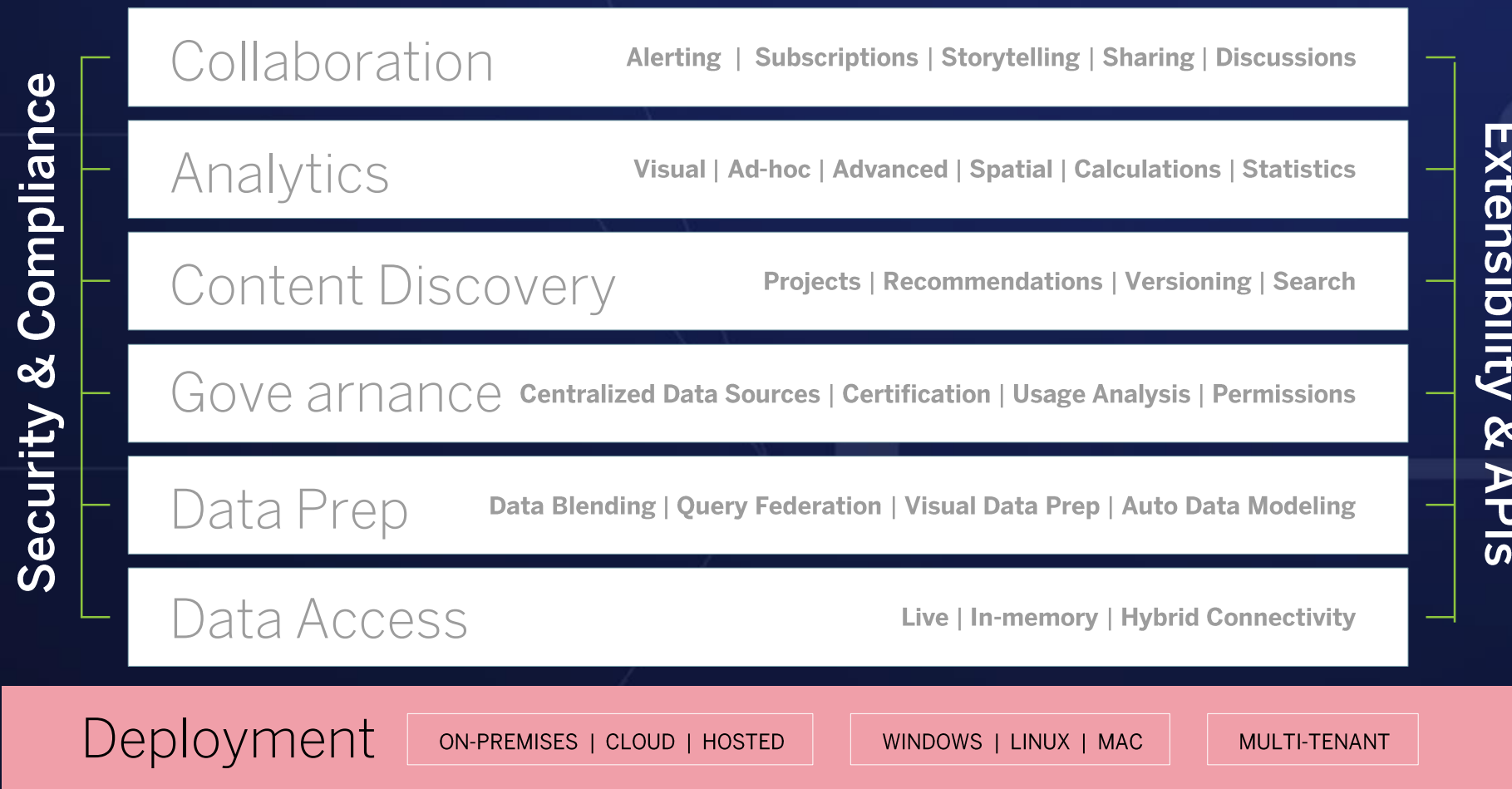
Browser



Mobile



Embedded



Security

Scalability

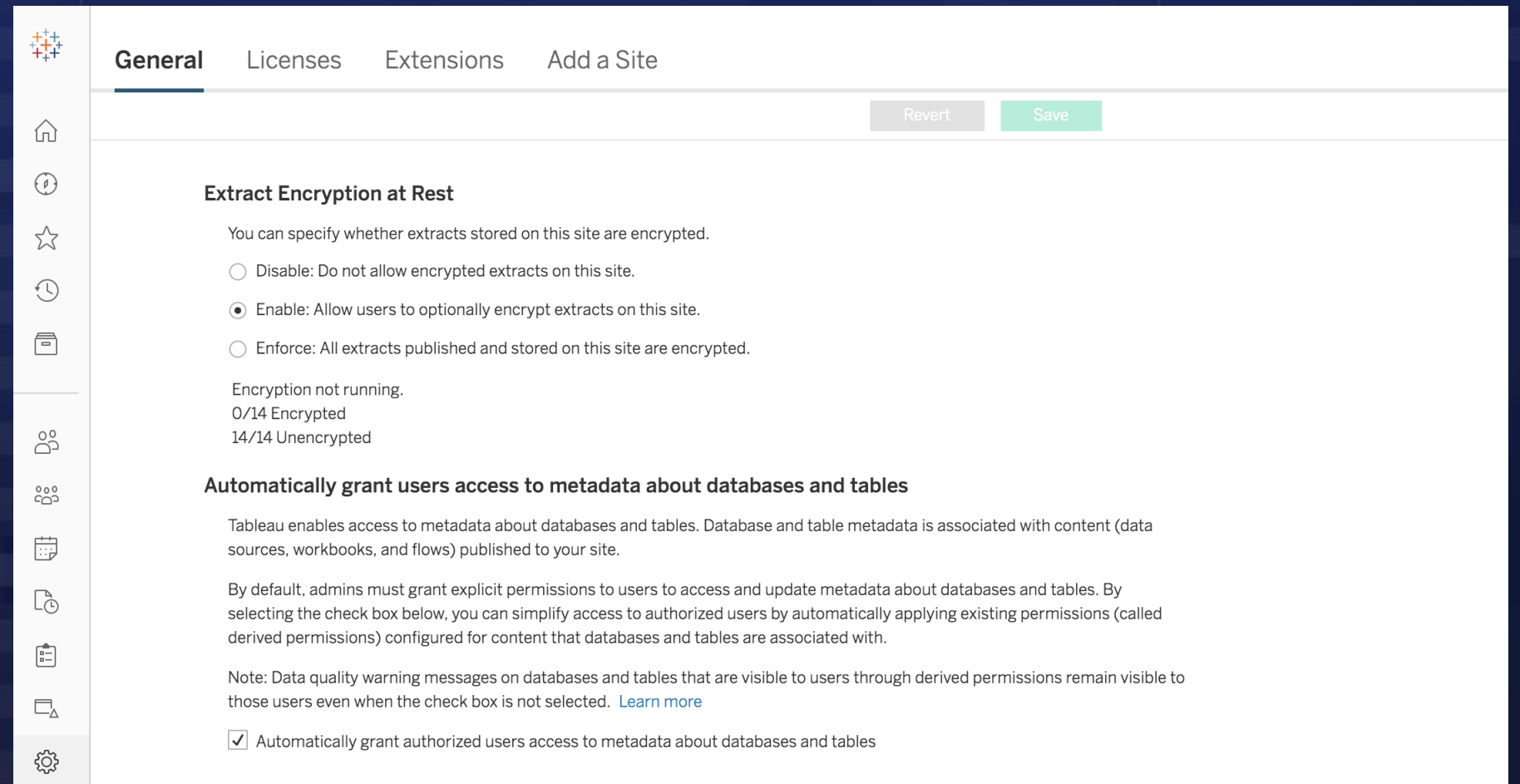
Efficiency

Secure platform for data and analytics

Integrated Authentication

Encrypted data

Advanced Key Management



The screenshot displays the Tableau Admin console interface. At the top, there is a navigation bar with tabs for 'General', 'Licenses', 'Extensions', and 'Add a Site'. The 'General' tab is selected. On the right side of the page, there are two buttons: 'Revert' (disabled) and 'Save' (active). The main content area is titled 'Extract Encryption at Rest' and contains the following text and options:

You can specify whether extracts stored on this site are encrypted.

- Disable: Do not allow encrypted extracts on this site.
- Enable: Allow users to optionally encrypt extracts on this site.
- Enforce: All extracts published and stored on this site are encrypted.

Encryption not running.
0/14 Encrypted
14/14 Unencrypted

Automatically grant users access to metadata about databases and tables

Tableau enables access to metadata about databases and tables. Database and table metadata is associated with content (data sources, workbooks, and flows) published to your site.

By default, admins must grant explicit permissions to users to access and update metadata about databases and tables. By selecting the check box below, you can simplify access to authorized users by automatically applying existing permissions (called derived permissions) configured for content that databases and tables are associated with.

Note: Data quality warning messages on databases and tables that are visible to users through derived permissions remain visible to those users even when the check box is not selected. [Learn more](#)

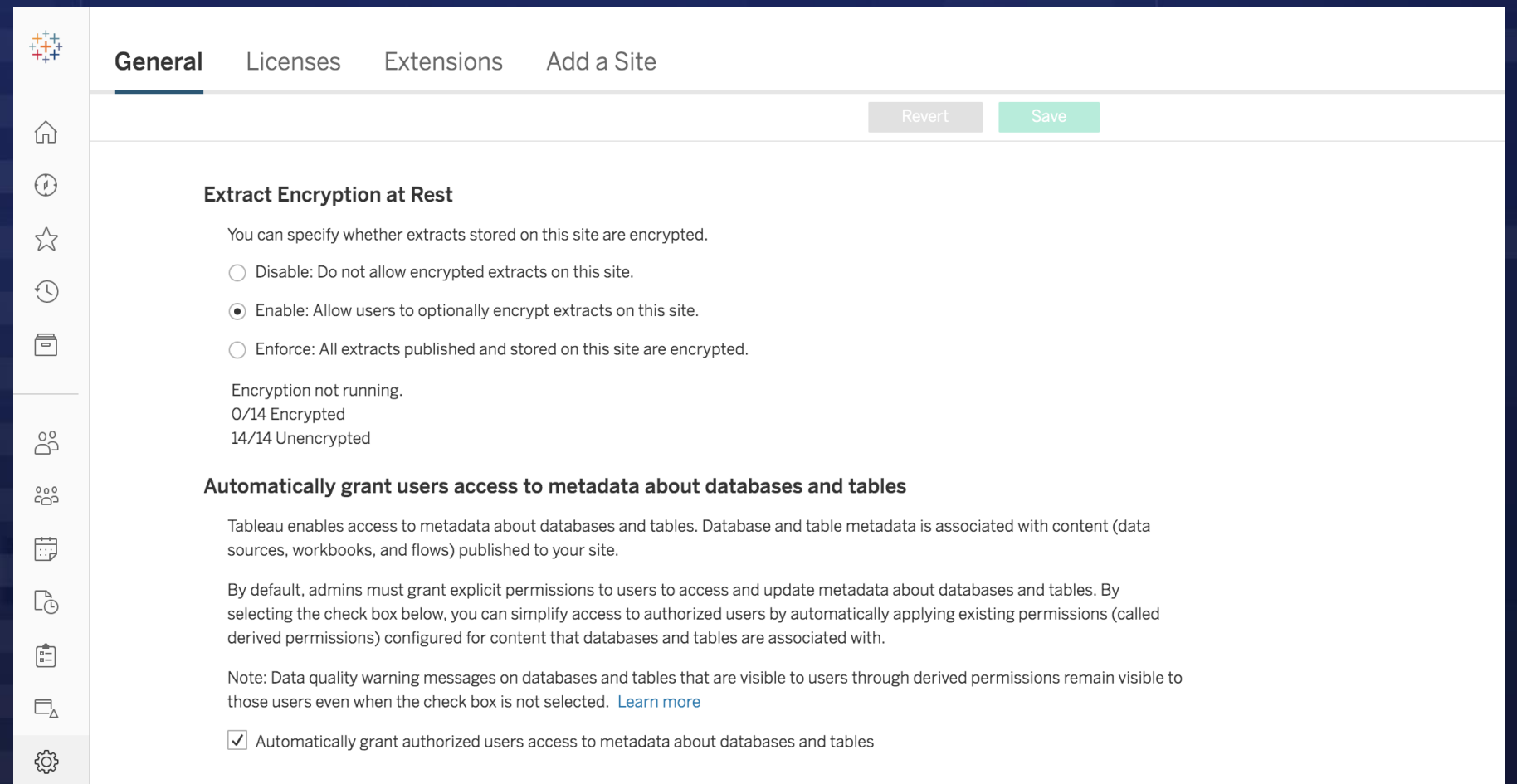
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0/14 Encrypted
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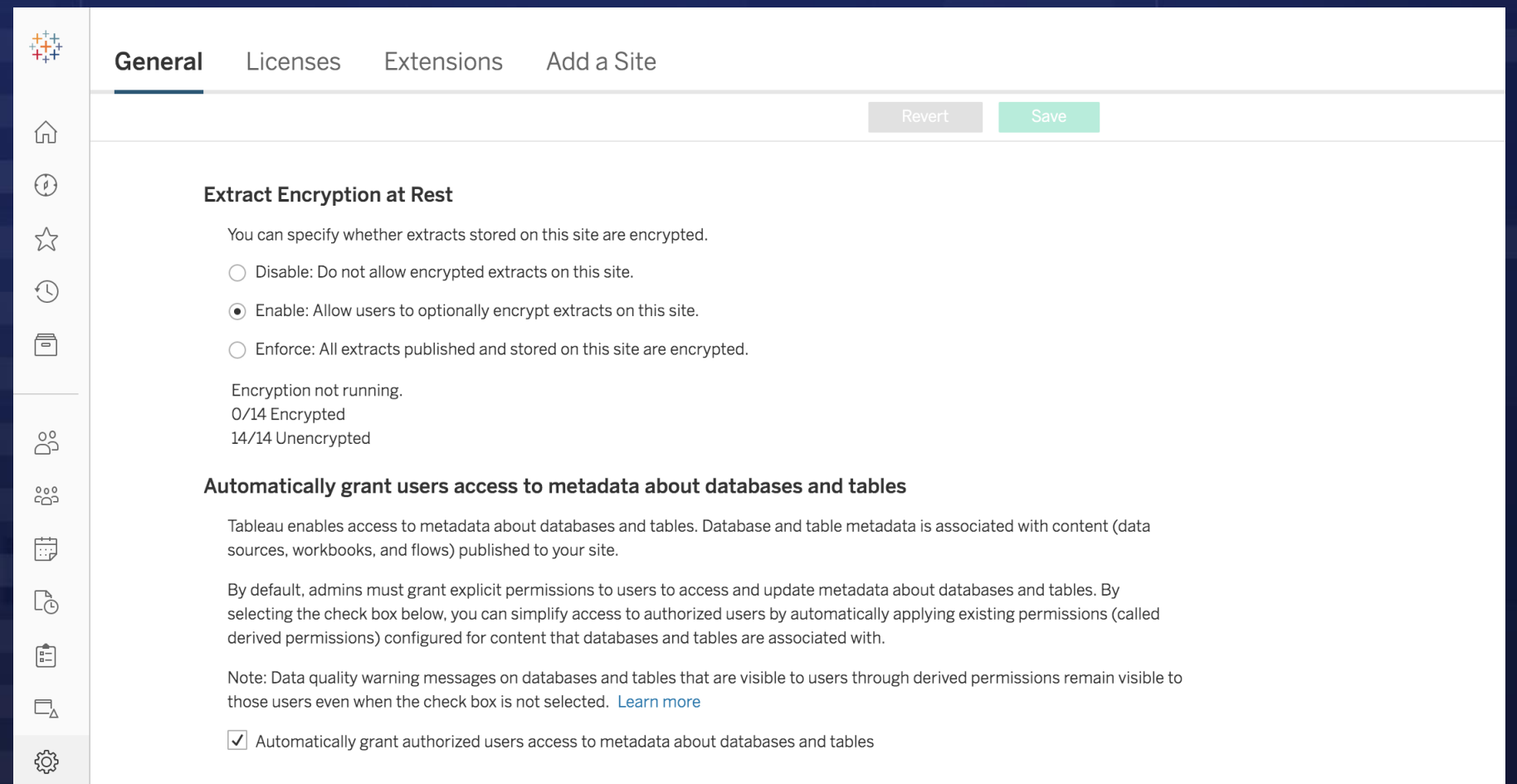
Automatically grant authorized users access to metadata about databases and tables

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The screenshot displays the Tableau Admin console interface. On the left is a vertical navigation sidebar with icons for Home, Recent, Favorites, History, Content, Users, Groups, Roles, and Settings. The main content area is titled 'General' and includes tabs for 'Licenses', 'Extensions', and 'Add a Site'. At the top right of the main area are 'Revert' and 'Save' buttons. The primary section is 'Extract Encryption at Rest', which contains a descriptive paragraph and three radio button options: 'Disable: Do not allow encrypted extracts on this site.', 'Enable: Allow users to optionally encrypt extracts on this site.' (which is selected), and 'Enforce: All extracts published and stored on this site are encrypted.'. Below these options, it shows the status 'Encryption not running.' and a summary '0/14 Encrypted' and '14/14 Unencrypted'. The next section is 'Automatically grant users access to metadata about databases and tables', with a descriptive paragraph and a checked checkbox for 'Automatically grant authorized users access to metadata about databases and tables'. A note at the bottom of this section states that data quality warning messages remain visible to users even when the checkbox is not selected, with a 'Learn more' link.

General Licenses Extensions Add a Site

Revert Save

Extract Encryption at Rest

You can specify whether extracts stored on this site are encrypted.

- Disable: Do not allow encrypted extracts on this site.
- Enable: Allow users to optionally encrypt extracts on this site.
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Encryption not running.
0/14 Encrypted
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Automatically grant authorized users access to metadata about databases and tables

Platform that can scale and is governable

REST APIs

Job Management

External Repository

Workload Management

The screenshot shows the Tableau Server Configuration page under the 'CONFIGURATION' tab. The 'Topology' section is active, displaying a table of three nodes (node1, node2, node3) with their respective IP addresses and service configurations. A red box highlights the 'External Services' section, which lists 'Repository' as an external service. Another red box highlights the 'Repository' row in the node configuration table for all three nodes. The 'Add a Node' section on the right provides instructions for adding a new node, including downloading a bootstrap file and running the installer.

Tableau Server is running sign out

Topology

Configure and improve Tableau Server performance by adding or removing nodes and changing process configurations and other settings. [Learn more](#)

External Services

The following services are set to external and will not be present in the nodes. [Learn more](#)

- Repository

node1 ec0f5742c38e472.tsi.lan	node2 509e1d5ea41e455.tsi.lan	node3 1f8d7dea5cfc4d4.tsi.lan
Gateway <input checked="" type="checkbox"/>	Gateway <input checked="" type="checkbox"/>	Gateway <input checked="" type="checkbox"/>
Application Server 1	Application Server 1	Application Server 1
Interactive Microservic... 1	Interactive Microservic... 1	Interactive Microservic... 1
VizQL Server 4	VizQL Server 1	VizQL Server 1
Cache Server 2	Cache Server 1	Cache Server 1
Cluster Controller <input checked="" type="checkbox"/>	Cluster Controller <input checked="" type="checkbox"/>	Cluster Controller <input checked="" type="checkbox"/>
Search & Browse <input checked="" type="checkbox"/>	Search & Browse <input checked="" type="checkbox"/>	Search & Browse <input checked="" type="checkbox"/>
Backgrounder 2	Backgrounder 1	Backgrounder 1
Non-Interactive Micros... 1	Non-Interactive Micros... 1	Non-Interactive Micros... 1
Data Server 2	Data Server 1	Data Server 1
Data Engine <input checked="" type="checkbox"/>	Data Engine <input checked="" type="checkbox"/>	Data Engine <input checked="" type="checkbox"/>
File Store <input checked="" type="checkbox"/>	File Store <input type="checkbox"/>	File Store <input type="checkbox"/>
Repository	Repository	Repository
Tableau Prep Conductor <input checked="" type="checkbox"/>	Tableau Prep Conductor <input checked="" type="checkbox"/>	Tableau Prep Conductor <input checked="" type="checkbox"/>
Ask Data <input checked="" type="checkbox"/>	Ask Data <input checked="" type="checkbox"/>	Ask Data <input checked="" type="checkbox"/>
Elastic Server <input checked="" type="checkbox"/>	Elastic Server <input type="checkbox"/>	Elastic Server <input type="checkbox"/>
TSM Controller <input checked="" type="checkbox"/>	TSM Controller <input type="checkbox"/>	TSM Controller <input type="checkbox"/>
License Server <input checked="" type="checkbox"/>	License Server <input type="checkbox"/>	License Server <input type="checkbox"/>
<input type="button" value="Remove Node"/>	<input type="button" value="Remove Node"/>	<input type="button" value="Remove Node"/>

Add a Node

Step 1

Download the node bootstrap configuration file and locate your Tableau Server installer. The same installer can be used to install multiple nodes. [Having trouble finding the installer?](#)

Include temporary credentials in file

Step 2

Run the node installer on the new node, and when prompted, provide the configuration file.

Tableau Services Manager will detect the new node and display it on the Topology page.

[Learn more about adding, removing, and managing nodes in Tableau Services Manager.](#)

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The screenshot shows the Tableau Server Configuration page, specifically the 'CONFIGURATION' tab. The 'Topology' section is active, displaying a table of three nodes (node1, node2, node3) and their configurations. A red box highlights the 'External Services' section, which lists 'Repository' as an external service. Another red box highlights the 'Repository' row in the node configuration table, which is currently unchecked for all three nodes. The 'Add a Node' section on the right provides instructions for adding a new node, including downloading a bootstrap file and running the installer.

External Services
The following services are set to external and will not be present in the nodes. [Learn more](#)

- Repository

node1 ec0f5742c38e472.tsi.lan	node2 509e1d5ea41e455.tsi.lan	node3 1f8d7dea5cfc4d4.tsi.lan
Gateway <input checked="" type="checkbox"/>	Gateway <input checked="" type="checkbox"/>	Gateway <input checked="" type="checkbox"/>
Application Server 1 ▼	Application Server 1 ▼	Application Server 1 ▼
Interactive Microservic... 1 ▼	Interactive Microservic... 1 ▼	Interactive Microservic... 1 ▼
VizQL Server 4 ▼	VizQL Server 1 ▼	VizQL Server 1 ▼
Cache Server 2 ▼	Cache Server 1 ▼	Cache Server 1 ▼
Cluster Controller <input checked="" type="checkbox"/>	Cluster Controller <input checked="" type="checkbox"/>	Cluster Controller <input checked="" type="checkbox"/>
Search & Browse <input checked="" type="checkbox"/>	Search & Browse <input checked="" type="checkbox"/>	Search & Browse <input checked="" type="checkbox"/>
Backgrounder 2 ▼	Backgrounder 1 ▼	Backgrounder 1 ▼
Non-Interactive Micros... 1 ▼	Non-Interactive Micros... 1 ▼	Non-Interactive Micros... 1 ▼
Data Server 2 ▼	Data Server 1 ▼	Data Server 1 ▼
Data Engine <input checked="" type="checkbox"/>	Data Engine <input checked="" type="checkbox"/>	Data Engine <input checked="" type="checkbox"/>
File Store <input checked="" type="checkbox"/>	File Store <input type="checkbox"/>	File Store <input type="checkbox"/>
Repository <input type="checkbox"/>	Repository <input type="checkbox"/>	Repository <input type="checkbox"/>
Tableau Prep Conductor <input checked="" type="checkbox"/>	Tableau Prep Conductor <input checked="" type="checkbox"/>	Tableau Prep Conductor <input checked="" type="checkbox"/>
Ask Data <input checked="" type="checkbox"/>	Ask Data <input checked="" type="checkbox"/>	Ask Data <input checked="" type="checkbox"/>
Elastic Server <input checked="" type="checkbox"/>	Elastic Server <input type="checkbox"/>	Elastic Server <input type="checkbox"/>
TSM Controller <input checked="" type="checkbox"/>	TSM Controller <input type="checkbox"/>	TSM Controller <input type="checkbox"/>
License Server <input checked="" type="checkbox"/>	License Server <input type="checkbox"/>	License Server <input type="checkbox"/>
<input type="button" value="Remove Node"/>	<input type="button" value="Remove Node"/>	<input type="button" value="Remove Node"/>

Add a Node

Step 1
Download the node bootstrap configuration file and locate your Tableau Server installer. The same installer can be used to install multiple nodes. [Having trouble finding the installer?](#)

Include temporary credentials in file

Step 2
Run the node installer on the new node, and when prompted, provide the configuration file.

Tableau Services Manager will detect the new node and display it on the Topology page.

[Learn more about adding, removing, and managing nodes in Tableau Services Manager.](#)

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Workload Management

The screenshot shows the Tableau Server Configuration page, specifically the 'Topology' section. The page is titled 'Topology' and includes a sub-header 'Configure and improve Tableau Server performance by adding or removing nodes and changing process configurations and other settings. Learn more'. A red box highlights the 'External Services' section, which states 'The following services are set to external and will not be present in the nodes. Learn more' and lists 'Repository'. Below this, there are three columns representing nodes: node1, node2, and node3. Each node has a list of services with checkboxes and dropdown menus for counts. A red box highlights the 'Repository' row across all three nodes. To the right of the nodes is an 'Add a Node' section with two steps: Step 1 (Download the node bootstrap configuration file) and Step 2 (Run the node installer). The 'Repository' checkbox is checked for all three nodes.

Service	node1	node2	node3
Gateway	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Application Server	1	1	1
Interactive Microservic...	1	1	1
VizQL Server	4	1	1
Cache Server	2	1	1
Cluster Controller	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Search & Browse	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Backgrounder	2	1	1
Non-Interactive Micros...	1	1	1
Data Server	2	1	1
Data Engine	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
File Store	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Repository	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tableau Prep Conductor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Ask Data	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Elastic Server	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TSM Controller	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
License Server	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Workload Management*

The screenshot displays the Tableau Server Configuration interface. The top navigation bar includes 'STATUS', 'MAINTENANCE', and 'CONFIGURATION'. The 'CONFIGURATION' tab is active, showing the 'Topology' section. A sidebar on the left lists navigation options: Topology, Security, User Identity & Access, Notifications, and Licensing. The main content area is titled 'Topology' and contains a sub-section 'External Services' which lists 'Repository' as an external service. Below this, there are three columns representing different nodes (node1, node2, node3), each with a list of services and their counts. A red box highlights the 'Repository' row across all three nodes. To the right of the nodes is an 'Add a Node' section with two steps: Step 1 (Download Bootstrap File) and Step 2 (Run the node installer). The bottom of each node column has a 'Remove Node' button.

node1 ec0f5742c38e472.tsi.lan	node2 509e1d5ea41e455.tsi.lan	node3 1f8d7dea5cfc4d4.tsi.lan
Gateway <input checked="" type="checkbox"/>	Gateway <input checked="" type="checkbox"/>	Gateway <input checked="" type="checkbox"/>
Application Server 1	Application Server 1	Application Server 1
Interactive Microservic... 1	Interactive Microservic... 1	Interactive Microservic... 1
VizQL Server 4	VizQL Server 1	VizQL Server 1
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Cluster Controller <input checked="" type="checkbox"/>	Cluster Controller <input checked="" type="checkbox"/>	Cluster Controller <input checked="" type="checkbox"/>
Search & Browse <input checked="" type="checkbox"/>	Search & Browse <input checked="" type="checkbox"/>	Search & Browse <input checked="" type="checkbox"/>
Backgrounder 2	Backgrounder 1	Backgrounder 1
Non-Interactive Micros... 1	Non-Interactive Micros... 1	Non-Interactive Micros... 1
Data Server 2	Data Server 1	Data Server 1
Data Engine <input checked="" type="checkbox"/>	Data Engine <input checked="" type="checkbox"/>	Data Engine <input checked="" type="checkbox"/>
File Store <input checked="" type="checkbox"/>	File Store <input type="checkbox"/>	File Store <input type="checkbox"/>
Repository <input type="checkbox"/>	Repository <input type="checkbox"/>	Repository <input type="checkbox"/>
Tableau Prep Conductor <input checked="" type="checkbox"/>	Tableau Prep Conductor <input checked="" type="checkbox"/>	Tableau Prep Conductor <input checked="" type="checkbox"/>
Ask Data <input checked="" type="checkbox"/>	Ask Data <input checked="" type="checkbox"/>	Ask Data <input checked="" type="checkbox"/>
Elastic Server <input checked="" type="checkbox"/>	Elastic Server <input type="checkbox"/>	Elastic Server <input type="checkbox"/>
TSM Controller <input checked="" type="checkbox"/>	TSM Controller <input type="checkbox"/>	TSM Controller <input type="checkbox"/>
License Server <input checked="" type="checkbox"/>	License Server <input type="checkbox"/>	License Server <input type="checkbox"/>

Resource Governance

Guard Rails

Visibility

Predictability

All Sites ▾

Failed Jobs: 198 Completed Jobs: 199 Cancelled Jobs: 207

Sort By: Run Time (longest-shortest) ↓ ▾

[Clear all filters](#)

ID	Status	Priority	Task Type	Job Requested Time	Run Time (min)	Queue Time (min)
<input type="checkbox"/> 357	✓ Completed	0	Extract Refre...	Aug 4, 2019, 2:08 ...	59.8	30.9
<input type="checkbox"/> 770	! Cancelled	6	Extract Refre...	Aug 5, 2019, 1:16 PM	59.5	8.0
<input type="checkbox"/> 453	! Cancelled	56	Extract Refre...	Aug 3, 2019, 12:42 ...	59.3	56.8
<input type="checkbox"/> 28	! Failed	75	Extract Refre...	Aug 4, 2019, 2:02 ...	59.2	43.6
<input type="checkbox"/> 469	✓ Completed	17	Extract Refre...	Aug 4, 2019, 2:42 ...	59.0	31.1
<input type="checkbox"/> 335	✓ Completed	57	Extract Refre...	Aug 3, 2019, 8:54 ...	58.9	49.0
<input type="checkbox"/> 910	! Cancelled	66	Extract Refre...	Aug 5, 2019, 2:23 ...	58.9	19.5
<input type="checkbox"/> 450	! Cancelled	89	Extract Refre...	Aug 5, 2019, 8:29 ...	58.4	13.9
<input type="checkbox"/> 213	! Cancelled	61	Extract Refre...	Aug 3, 2019, 8:37 P...	58.4	49.8
<input type="checkbox"/> 999	! Failed	56	Extract Refre...	Aug 5, 2019, 9:44 ...	57.6	13.4
<input type="checkbox"/> 225	! Cancelled	42	Extract Refre...	Aug 5, 2019, 5:58 ...	57.4	17.5
<input type="checkbox"/> 484	🔄 In Progress	5	Extract Refre...	Aug 5, 2019, 1:06 A...	57.3	22.4
<input type="checkbox"/> 234	✓ Completed	49	Extract Refre...	Aug 3, 2019, 7:23 P...	57.2	52.3
<input type="checkbox"/> 735	✓ Completed	34	Extract Refre...	Aug 4, 2019, 11:33 ...	57.1	36.1
<input type="checkbox"/> 826	🔄 In Progress	65	Extract Refre...	Aug 5, 2019, 12:32 ...	57.1	11.2
<input type="checkbox"/> 964	✓ Completed	2	Extract Refre...	Aug 5, 2019, 9:34 ...	57.1	14.2

Navigation: Sites, Users, Schedules, **Jobs**, Tasks, Server Status, Settings

Filters: Status (Any), Task Type (Extract Refresh), Show Jobs in the Past (24 Hours), Show System Jobs

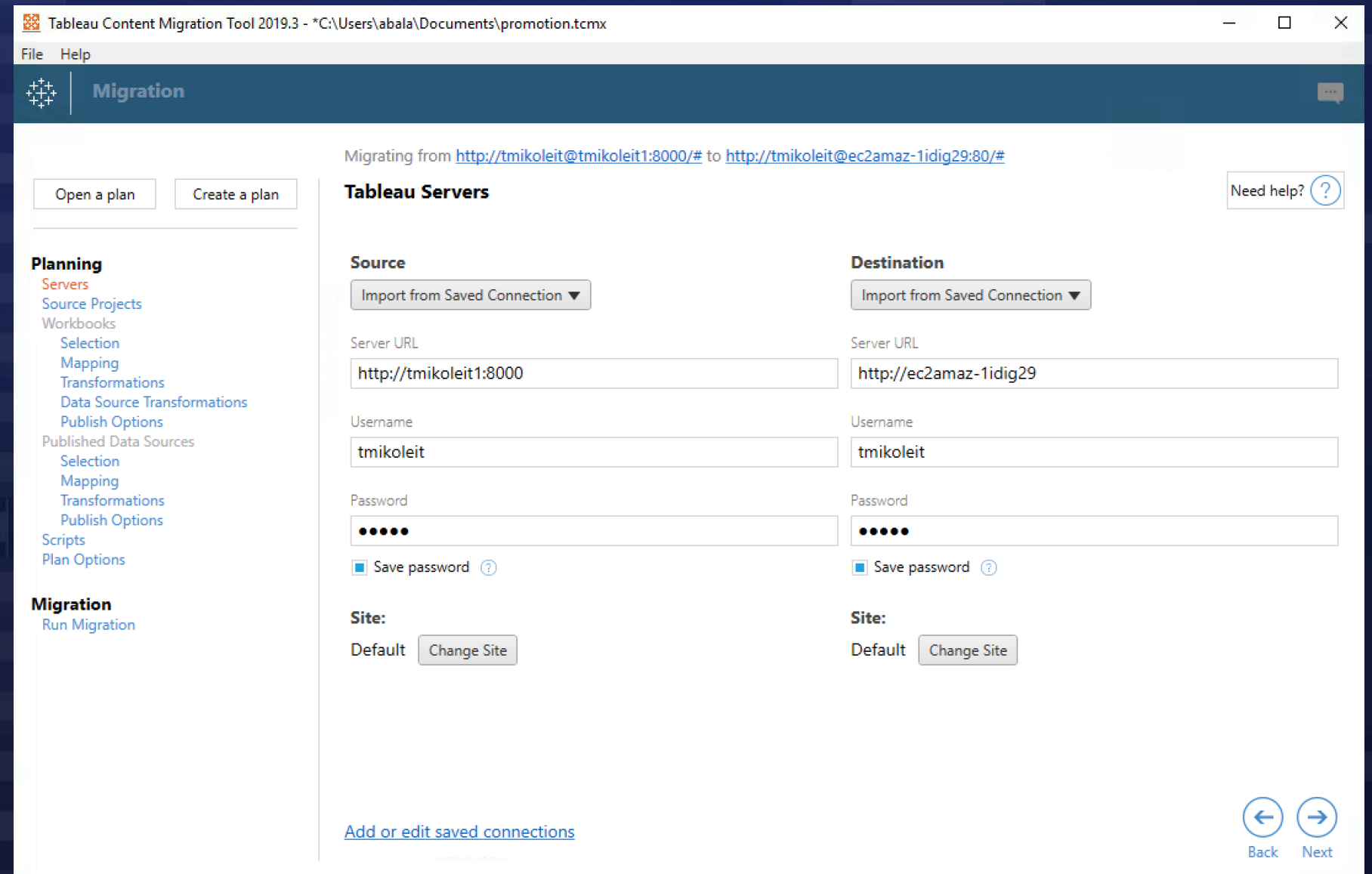
Efficient and easy to manage

Tableau Services Manager

Dynamic Topology

Resource Monitoring

Content Migration



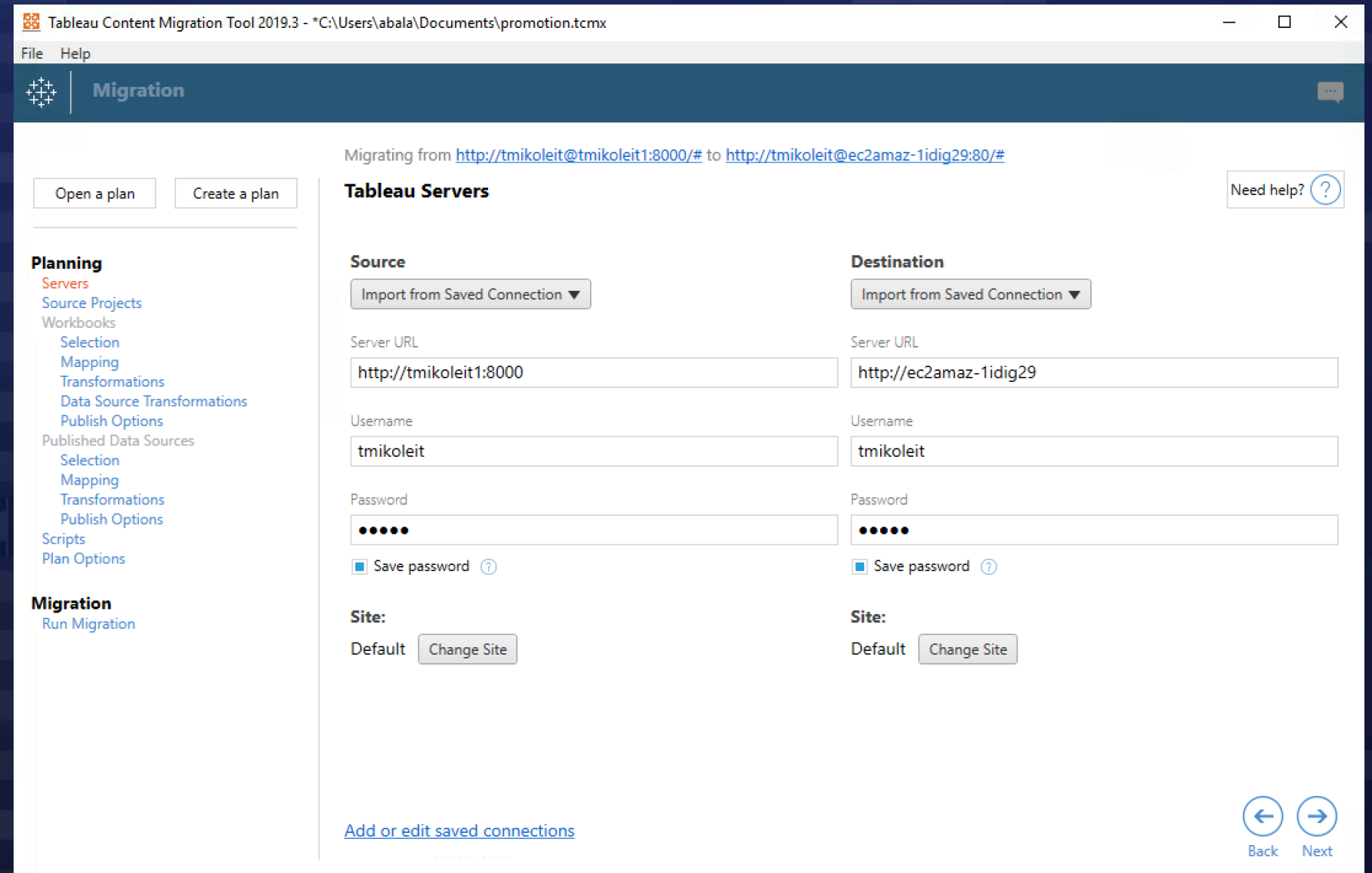
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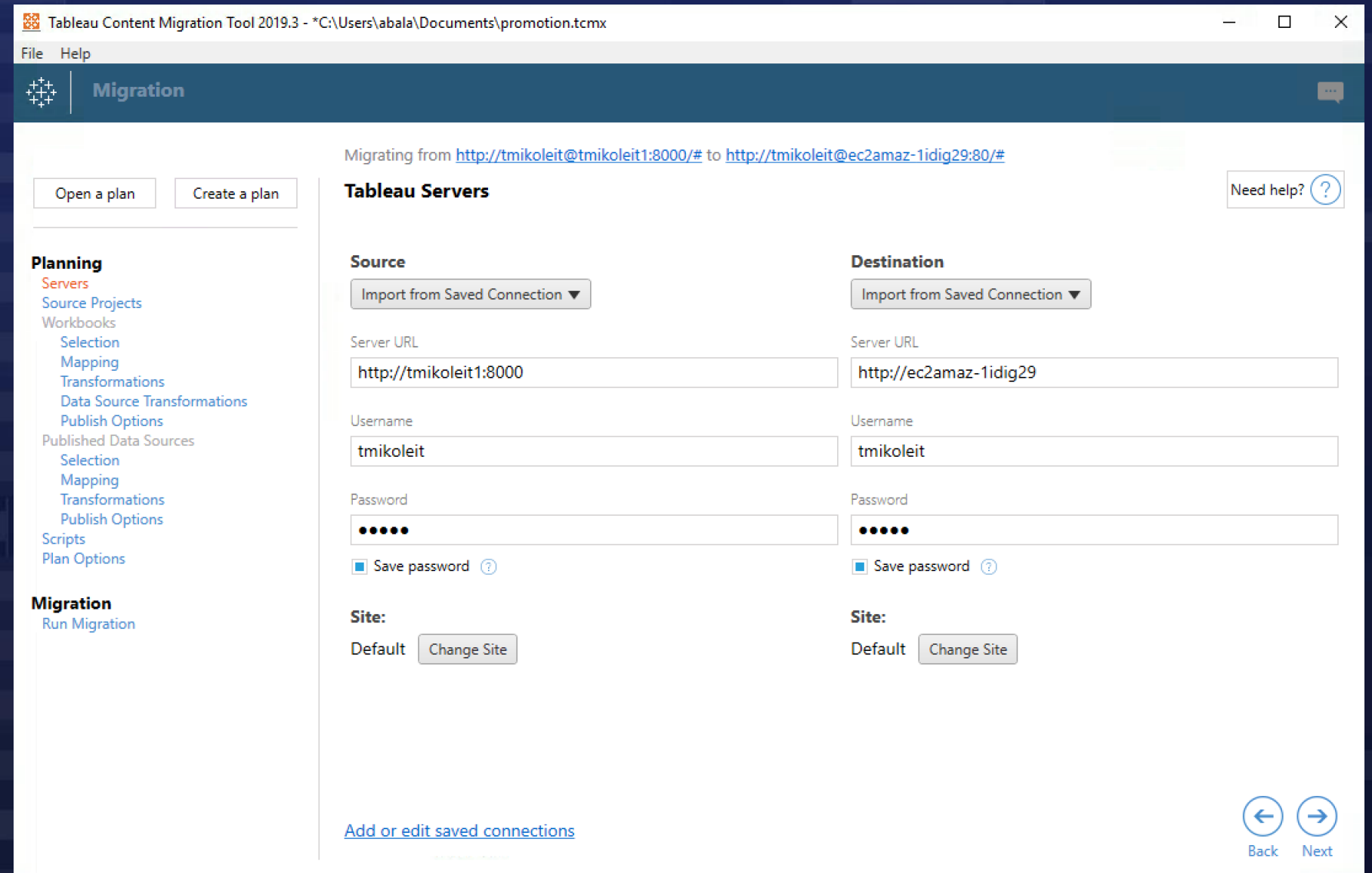
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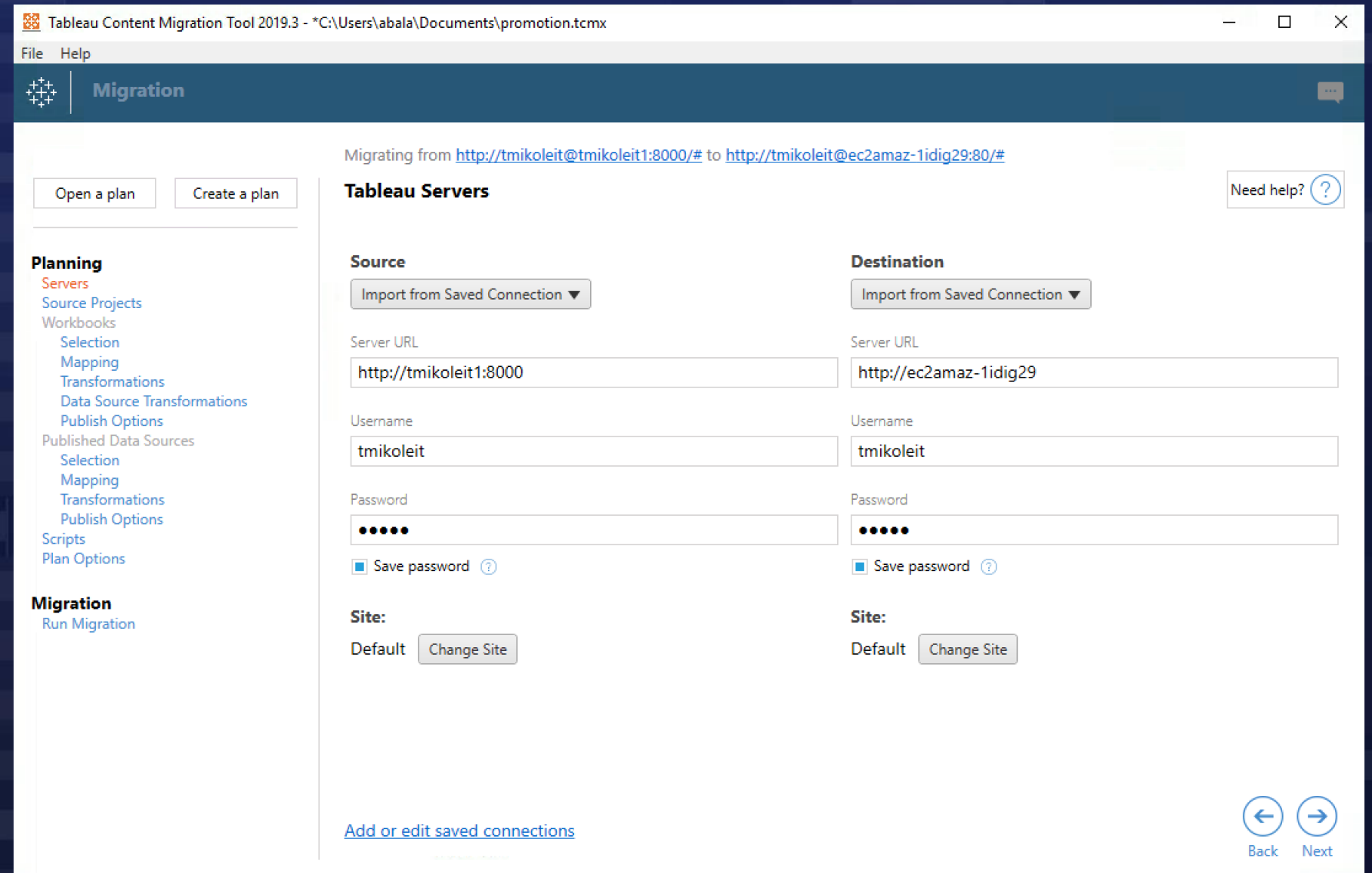
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An Enterprise platform that is secure, scalable and efficient

SECURITY



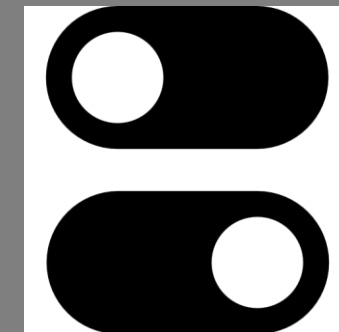
Authentication
Authorization
Data Security

SCALABILITY



Deployment options
High Availability
Resource Governance

MANAGEABILITY



Ease of Administration
Zero Downtime Backups
Monitoring and Alerting

Questions?