

Deploy the Solution

To help streamline the setup of Sandbox Studio, we've provided an installation script that checks your environment for the necessary prerequisites and guides you through deploying the solution step by step. This is our recommended installation method, as it simplifies the process and reduces the chance of configuration issues. However, if you prefer to install the solution manually, please refer to the manual installation documentation or contact our support team for assistance.

- [Running the Installation Wizard](#)
- [Update Sandbox Studio](#)

Running the Installation Wizard

Introduction

This wizard has been created to facilitate the installation and deployment of the Sandbox Studio solution in your environment. It automates as many steps as possible and checks for prerequisites before the installation.

Running the wizard

1. Login to your AWS **Organisation Management account**.
2. Open a new [CloudShell](#) console (a link to open CloudShell can be found in the bottom left corner of the AWS console).
3. Ensure you are in the region where you want to install Sandbox Studio.
4. Run the following command:

```
bash <(curl -s https://dist.sandboxstudiosoftware.com/install.sh)
```

The following should display:

```
CloudShell
us-east-1 +

SANDBOX STUDIO

Welcome to the Sandbox Studio Installation Script!
This script will guide you through the installation process.

[INFO] 2025-08-26 22:03:38 Fetching latest version information...
[INFO] 2025-08-26 22:03:38 Using latest version: 1.0.4
[INFO] 2025-08-26 22:03:38 Installation will proceed through the following steps:
  1. Verify AWS account and region
  2. Collect account information
  3. Check prerequisites (incl. custom SAML application)
  4. Collect configuration parameters
  5. Deploy SandboxStudio-AccountPool stack
  6. Deploy SandboxStudio-IDC stack
  7. Deploy SandboxStudio-Network stack
  8. Deploy SandboxStudio-Data, SandboxStudio-SES, SandboxStudio-Compute, SandboxStudio-API stacks
  9. Custom domain
 10. Sender e-mail
 11. Configure AppConfig
 12. Secrets Manager
 13. Admin user in SBS

? Are you ready to proceed with the Sandbox Studio installation? [Y/n]:
```

The wizard will guide you through the installation process.

Do not use your root account to run this script as it will fail and does not follow AWS best practices!

Prerequisites

The wizard will automatically check for [prerequisites](#). If any of the prerequisites are not met, the wizard will display the URL to the right documentation to help you configure your environment. See [Installation Prerequisites](#) page for more details.

Inputs

The installation wizard will ask you to set/confirm a set of input parameters during the installation process:

Input Variable	Description	Input or Confirm	Comments
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Management Account ID	The AWS account ID of the management account (auto-detected by the script).	Confirm	During setup, you will be asked to confirm that you are indeed using the correct organisation management account . This ensures Sandbox Studio can set up organisation units and Service Control Policies.
Region	AWS region where Sandbox Studio will be deployed.	Confirm / Input	The script attempts to detect the region from AWS CLI config. If not found, you will be prompted to input one (default <code>us-east-1</code>).
Hub Account ID	The account ID that will host Sandbox Studio infrastructure (may be same as management account).	Input	Must be a 12-digit AWS account ID. If left empty, the management account ID will be used. See Choosing the hub account .
Parent OU ID	AWS Organisation Unit ID where Sandbox Studio OUs will be created.	Input	Defaults to the Root OU ID , but can be set to any valid parent OU so that Sandbox Studio's OU are created under that OU and inherit existing SCP's if required.
Namespace	Short prefix (3-8 alphanumeric characters) used to name Sandbox Studio resources.	Input	Example: <code>MySs</code> . Used as a unique identifier in stack names and IAM groups.
Managed Regions	List of AWS regions where Sandbox Studio should manage accounts/resources.	Input	Comma-separated values (e.g., <code>us-east-1,eu-west-1</code>). Defaults to the chosen region. See Choosing your region(s) .
Admin Group Name	IAM Identity Center group name for Sandbox Studio administrators.	Input	Defaults to <code><Namespace>_SsAdminsGroup</code> . This is the "Administrators" group for users who will configure and maintain the Sandbox Studio application. If you are integrating with an external identity provider such as Microsoft Entra, see External identity provider setup (Optional) .
Manager Group Name	IAM Identity Center group name for Sandbox Studio managers.	Input	Defaults to <code><Namespace>_SsManagersGroup</code> . This is the "Managers" group for users who oversee day-to-day sandbox usage within a department or team. If you are integrating with an external identity provider such as Microsoft Entra, see External identity provider setup (Optional) .
User Group Name	IAM Identity Center group name for Sandbox Studio end users.	Input	Defaults to <code><Namespace>_SsUsersGroup</code> . This is the "Users" group for users who login to sandbox accounts and use them for development, testing, training, or experimentation. If you are integrating with an external identity provider such as Microsoft Entra, see External identity provider setup (Optional) .
Identity Center Instance	The IAM Identity Center instance ARN and Identity Store ID used for Sandbox Studio integration.	Confirm	The wizard will list the detected Identity Center instance and ask you to confirm it is the correct one.

Custom Application in Identity Center	The SAML 2.0 application used by Sandbox Studio for authentication.	Confirm / Input	You can either select an existing Identity Center application or the wizard will help you create a new one.
Allowed IP Ranges	CIDR ranges of IP addresses allowed to access the Sandbox Studio API.	Input	Defaults to all IPs (<code>0.0.0.0/1,128.0.0.0/1</code>). Restrict to corporate ranges if needed.
Custom Domain	(Optional) A DNS domain for Sandbox Studio instead of the CloudFront URL.	Input	If used, must configure CloudFront and ACM with this domain, and update Identity Center ACS URL accordingly.
Email From Address	Email address Sandbox Studio will use to send system notifications.	Input	Must be a verified identity in SES. Example: <code>sandboxstudio@example.com</code> .
Admin Users	Initial set of users (by username) to be added to the Admin group in Identity Center.	Input	You will be prompted to enter usernames to grant them full Sandbox Studio admin rights.

Deployment time

The deployment of the Sandbox Studio solution with the script should take around 1 hour.

Make sure your session timeout is at least 2 hours for during the installation of Sandbox Studio.

Update Sandbox Studio

Updating Made Simple

Updating Sandbox Studio is easier than ever. The update process uses the same [installation script](#) you used for the initial setup, making it straightforward and familiar.

How It Works

When you run the installation script on a environment with an existing Sandbox Studio installation, the script automatically:

1. **Detects** the previous installation
2. **Gathers** all required configuration information from your current setup
3. **Presents** a summary of what will be updated
4. **Asks for confirmation** before proceeding

Running the wizard

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3. Ensure you are in the region where you want to install Sandbox Studio.
4. Run the following command:

```
bash <(curl -s https://dist.sandboxstudiosoftware.com/install.sh)
```

1. The following should display:

SANDBOX STUDIO

Welcome to the Sandbox Studio Installation Script!
This script will guide you through the installation process.

```
[WARNING] 2025-10-21 22:28:55 yq not found. Installing yq in CloudShell...
[SUCCESS] 2025-10-21 22:28:56 yq successfully installed
[INFO] 2025-10-21 22:28:57 Fetching latest version information...
[INFO] 2025-10-21 22:28:58 Using latest version: 1.0.7
[INFO] 2025-10-21 22:28:58 Checking for existing installation...
[INFO] 2025-10-21 22:28:59 Found existing SandboxStudio-AccountPool stack.
[INFO] 2025-10-21 22:28:59 Assuming role OrganizationAccountAccessRole in account 479547938758...
[INFO] 2025-10-21 22:28:59 Successfully assumed role OrganizationAccountAccessRole in account 479547938758
[SUCCESS] 2025-10-21 22:29:00 Found existing Sandbox Studio installation. Proceeding with update...
[INFO] 2025-10-21 22:29:00 Cleared assumed role credentials
[INFO] 2025-10-21 22:29:00 Verifying AWS Account and Region
[INFO] 2025-10-21 22:29:00 Current AWS account ID: 864899859261
[INFO] 2025-10-21 22:29:00 Current AWS region: ap-southeast-2
```

? Is this the organization management account you want to use for deployment? [Y/n]:

? Do you want to upgrade to version 1.0.7? [Y/n]: █

Confirm existing values

The script will display your current installation details and the updates available. Review this information carefully to ensure everything is correct.

```

? Do you want to upgrade to version 1.0.7? [Y/n]:
[INFO] 2025-10-21 22:29:59 Starting Sandbox Studio update to 1.0.7...
[INFO] 2025-10-21 22:29:59 Fetching existing parameters for namespace: Sandbox
[INFO] 2025-10-21 22:30:00 Found AccountPool configuration
[INFO] 2025-10-21 22:30:00 Found IDC configuration
[INFO] 2025-10-21 22:30:01 Using Hub Account ID: ██████████
[INFO] 2025-10-21 22:30:01 Using Sandbox Studio version: 1.0.7
[INFO] 2025-10-21 22:30:01 Template base URL: https://sandbox-studio-software-dist.s3.amazonaws.com/versions/1.0.7
[INFO] 2025-10-21 22:30:01 Skipping pre-requisites checks as this is an update...
[INFO] 2025-10-21 22:30:01 Checking if a previous Network stack has been configured...
[INFO] 2025-10-21 22:30:01 Hub Account differs from Management Account, assuming role...
[INFO] 2025-10-21 22:30:01 Assuming role OrganizationAccountAccessRole in account ██████████...
[INFO] 2025-10-21 22:30:02 Successfully assumed role OrganizationAccountAccessRole in account ██████████
[INFO] 2025-10-21 22:30:03 Cleared assumed role credentials
[INFO] 2025-10-21 22:30:03 Fetching parameters from previous installations...
[INFO] 2025-10-21 22:30:05 Assuming role OrganizationAccountAccessRole in account ██████████...
[INFO] 2025-10-21 22:30:06 Successfully assumed role OrganizationAccountAccessRole in account ██████████
[INFO] 2025-10-21 22:30:07 Cleared assumed role credentials

[INFO] 2025-10-21 22:30:07 Existing settings found:
• Namespace: Sandbox
• Parent OU ID: ou-██████████
• Managed Regions: ap-southeast-2
• Hub Account ID: ██████████
• Admin Group Name: Sandbox-Admins
• Manager Group Name: Sandbox-Managers
• User Group Name: Sandbox-Users
• SSO Instance ARN: arn:aws:sso:::instance/ssoins-82 ██████████
• Identity Store ID: d-9 ██████████
• Allow Listed IP Ranges: 0.0.0.0/1,128.0.0.0/1
• VPC ID: vpc-03 ██████████
• Database Subnet IDs: subnet-██████████
• Compute Subnet IDs: subnet-0 ██████████

? Are these values correct? [Y/n]: █

```

Select Stacks to Update

You'll be presented with a stack-by-stack selection interface. For each stack, you can choose whether to update it or skip it.

Best Practice: It is highly recommended to update all stacks to ensure compatibility and access to the latest features and security patches.

```

[SUCCESS] 2025-10-21 22:38:24 All parameters collected successfully!

[STEP 1/13] 2025-10-21 22:38:24 Deploying SandboxStudio-AccountPool Stack

[INFO] 2025-10-21 22:38:24 Deploying SandboxStudio-AccountPool stack in management account...
[INFO] 2025-10-21 22:38:24 Template URL: https://sandbox-studio-software-dist.s3.amazonaws.com/versions/1.0.7/SandboxStudio-AccountPool.template.json
[INFO] 2025-10-21 22:38:24 Deploying stack SandboxStudio-AccountPool in management account...
[INFO] 2025-10-21 22:38:24 Stack SandboxStudio-AccountPool already exists.

? Do you want to update the existing stack SandboxStudio-AccountPool? [Y/n]: y█

```

Note: During update process, the script does not modify your existing configuration (AppConfig), your Identity Center applications, or anything else than the CloudFormation stacks for Sandbox Studio. You can force a reinstall of the solution by adding the flag **--reinstall true** to the installation script

Support

If you encounter any issues during the update process, please contact your Sandbox Studio support team at support@sandboxstudiosoftware.com or go to <https://support.sandboxstudiosoftware.com>