

Architecture Diagrams

Detect Malware Threats Using AWS Transfer Family



Detect Malware Threats Using AWS Transfer Family: Architecture Diagrams

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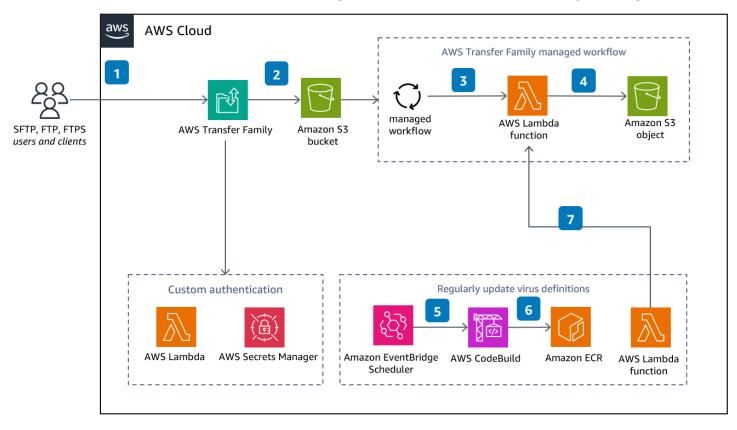
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Detect Malware Threats Using AWS Transfer Family

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Use this architecture to securely share files over SFTP, FTP, and FTPS within many business-to-business (B2B) workflows across various industries including retail, advertising, and regulated environments like healthcare and financial services.

Detect Malware Threats Using AWS Transfer Family Diagram



- Send an authentication request to the AWS Transfer Family server, which forwards the request to authenticate you using a <u>custom identity provider</u>.
- 2. Upload the files to the **Transfer Family** server. Each file put into an **Amazon Simple Storage Service** (Amazon S3) bucket and invokes a distinct workflow execution.
- 3. The **Transfer Family** managed workflow initializes a sequence of pre-processing steps on the uploaded file before being consumed by the downstream applications. In the workflow step, the **AWS Lambda** function scans each file with a Clam AntiVirus (ClamAV) installed container image.

- 4. Based on the scan result from the **Lambda** function, the managed workflow tags the files appropriately either as INFECTED or CLEAN.
- 5. An **Amazon EventBridge** Scheduler rule is configured to run <u>based on a cron expression</u> to update the ClamAV image and virus definitions.
- 6. **AWS CodeBuild** builds the container image adds the latest Clam AV virus definitions and uploads to **Amazon Elastic Container Registry** (Amazon ECR).
- 7. The **Lambda** function pulls the built container image from **Amazon ECR** and updates the **Lambda** function as part of the managed workflow.

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Further reading

For additional information, refer to

- AWS Architecture Icons
- AWS Architecture Center
- AWS Well-Architected

Contributors

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