



SYSTEM CATALOG 03 • READ-ONLY PIPELINE

FB Pipeline System Catalog

A narrow, fixed doorway into the server: fourteen named jobs, text answers, no shell, no administrator rights, and a deliberately unbuilt approval gate.

fbpipe 0.3

14 doors

13 read + 1 voice

stage one

Built so routine server questions can be asked without opening a terminal that can do everything. The Pipeline answers only what is explicitly in its catalogue.



Replace one dangerous door with fourteen narrow ones

02

BEFORE THE PIPELINE

To ask the server a simple question, an assistant had to use a terminal inside a web page. The answer was visually rendered, so long results were read by taking multiple screenshots and scrolling through them.

The terminal also exposed the whole machine: harmless commands, destructive commands and everything between them.

The problem is not that the terminal is broken. The problem is that the same doorway is used for both "show me the board" and operations that can change the machine.

WHAT THE PIPELINE CHANGES

Routine questions are moved behind a fixed catalogue. A request names one approved job. If that job exists, the matching tool runs and its output comes back as plain text. If the name is not in the catalogue, the Pipeline refuses before anything runs.

The terminal opens onto everything.
The Pipeline opens onto exactly what was written down.

plain text answers

no password

home network

no special powers

The four decisions that keep the doorway narrow

01 · CATALOGUE

Fourteen written names. Each is attached to one exact tool. A name that is not listed is refused before the machine is asked to do anything.

02 · NO SHELL

The tool name and argument are passed as separate items. No command sentence is built, so shell punctuation has nothing to interpret.

03 · NO POWERS

The Pipeline runs as an ordinary account with no administrator rights and is configured so it cannot gain them later.

04 · NO TRUSTED ARGUMENTS

Jobs that accept input validate it against a strict written pattern and fixed length. Invalid input is refused, not repaired or escaped.

"There is no shell.run. The list is the whole surface - a job that is not written here cannot be asked for."

Excluded on purpose

Backup, watcher, sleep manager and site tools are absent because their useful actions require administrator rights.

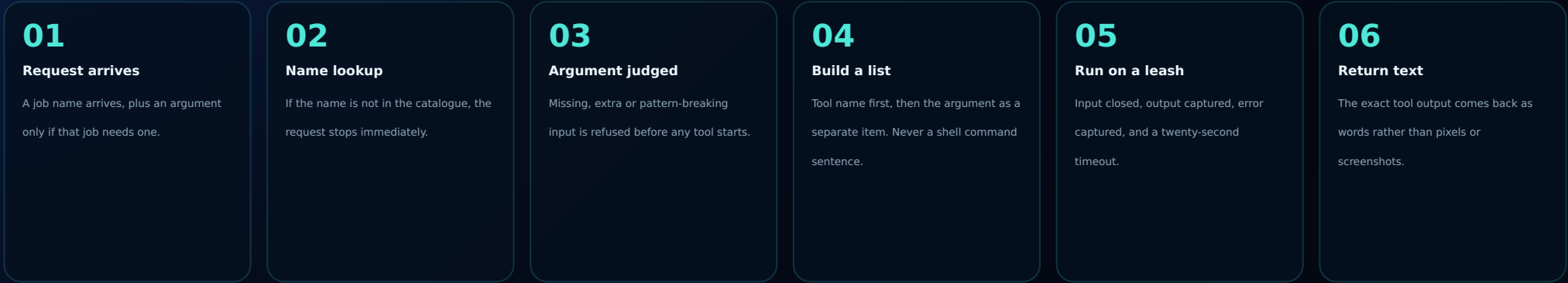
Refusal is a success condition

A refused name or argument means the boundary did its job before a command was launched.

Surface stays inspectable

The complete callable surface is the catalogue itself; there is no generic command executor behind it.

How one question travels through the Pipeline



THEN IT ENTERS THE LANE			
The last sixty calls are recorded with time, job name, owning agent, success/refusal state and duration in milliseconds. Separate running totals continue even after old lane entries disappear.			
19:20:04	cards.open	board requested as plain text	OK
19:01:48	say corren	voice request completed	OK
19:00:09	say corren	request refused before half-working output	REFUSED

The board, rules and work queue

<code>cards.open</code>	QUILL	The board, newest first - everything the server has not done yet.	<code>cards.count</code>	QUILL	How many cards are open. One number.
<code>cards.groups</code>	QUILL	The groups and the number of cards in each.	<code>cards.show</code>	QUILL	One card in full, including the reason written on it. Takes a card number.
<code>cards.rules</code>	QUILL	The rules for one group. Takes a group name.	<code>cards.prompt</code>	QUILL	The promises this assistant is supposed to work to.
<code>jobs.list</code>	RELAY	The server's work queue: waiting, running and finished.			

OWNERSHIP IS PRESENTATION, NOT PERMISSION

The owner shown beside a job tells the interface which crew member represents that job. It does not grant security rights and does not change what the Pipeline account can do.

- Quill board / rules / knowledge
- Relay jobs queue
- Locke disks
- Mason themes
- Watchman screen check
- Serra voice

Jobs, disks, knowledge, screen truth and voice

jobs.show	RELAY	One job in full, including everything it printed. Takes a job number.
hub.search	QUILL	Search everything the server knows. Takes search words.
hub.doctor	QUILL	What is wired up and what is not.
say	SERRA	An agent says a line out loud. Takes an agent name and a sentence.

THIRTEEN READS

Every door except **say** reads something and returns the result. These jobs are the core reference surface of the Pipeline.

disks.show	LOCKE	Every disk on the machine, mounted or not.
hub.themes	MASON	The design library - the themes the screens can wear.
screen.check	WATCHMAN	A real browser opens the dashboard and reports what it actually shows.

ONE DELIBERATE EXCEPTION

say changes no file or setting, but it makes sound in the room. The program therefore treats it as its own kind instead of calling it a read.

What the Pipeline screen shows



FB PIPELINE 0.3 • LIVE PANEL

LISTENING

Service state, server name, port, read-only intent, no password and home-network scope are stated visibly.

THIS RUN

Answered count, average milliseconds and refused count since the service started.

THE QUEUES

Reads flow straight through, the approval gate is empty because it does not exist yet, and the server's own jobs queue is visible.

THE ANSWER

The last job, its status, duration and the complete text result.

THE CATALOGUE + LANE

All fourteen named jobs and the rolling record of the last sixty requests.

The voice door refuses to half-work

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SERRA • VOICE OWNER

WHY SPEAKING HAS A FACE

When a crew member speaks, their card is meant to appear on screen. The speaking tool writes the speaker's name to a small file; the dashboard watches that file and raises the correct face while the voice is active.

THE BUG THIS DOOR WAS DESIGNED AROUND

For eleven days, the voice could play while the face failed to appear because the account lacked permission to update that small file. The error was swallowed, so the system looked intermittent instead of broken.

PIPELINE RULE

Before speaking, the Pipeline checks that it can also raise the face. If it cannot complete both parts, it refuses to speak and explains why.

A loud failure can be fixed.
A silent half-success can survive for days.

The gate is not built - and the screen says so

THE GATE

NOT BUILT

Stage one can ask questions. Stage two is the planned approval surface for jobs that would genuinely change the machine.

QUEUE

A privileged job waits

The future gate begins with a job that would alter the server.



APPROVE

A human decision

Approval is separate from asking and separate from execution.



RUN

Existing job mechanism

The design reuses the server's own approval path rather than inventing a second privileged system.

An empty approval list would look like a working gate with nothing waiting. The Pipeline deliberately uses large "Not built" text so the difference cannot be mistaken.

WHY THIS MATTERS

Queueing, approving and executing are three different security joints. The design keeps those boundaries visible and plans one approval mechanism, not two competing ones with different privilege rules.

Installed as a service, not a terminal experiment



Starts itself

The operating system launches the Pipeline when the machine starts.

Restarts on failure

If the process stops unexpectedly, the system waits briefly and starts it again.

One required group

Enough permission to raise an agent's face, and nothing broader.

No new privileges

The service is explicitly prevented from becoming more powerful while running.

INSTALLER PROVES THE RESULT

The installer validates the program, account and group before changing anything. Replaced files are moved aside with a date. At the end, it checks that the service is active, the port answers, voice is ready and the panel is being served.

BACKUP CORRECTION

The Pipeline program and page are now included in the nightly backup. Before 20 September, the service definition was backed up while the actual program was not - a restore that would have looked complete but failed at startup.

The real gain: answers arrive as text

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OLD WORKFLOW

Open a terminal. Type a command. Photograph the rendered text. Scroll. Photograph again. Reconstruct the result from images. Risk a misread number that looks completely plausible.

PIPELINE WORKFLOW

Ask one named job. Receive the full tool output in one text response. Search it, quote it exactly, compare it with an earlier result and keep the lane record of what was asked.

5 screenshots

can still produce one uncertain answer.

1 text answer

can be reused without reading pixels.

A check that is cheap gets done.
A check that costs five screenshots gets skipped.

Board before work

Checking open cards stops being an annoying ritual and becomes routine.

Disks before backup

Attached storage can be confirmed quickly before relying on a backup operation.

Screen before claims

The actual dashboard state can be checked before saying that the display works.

Technical ownership presented through the FB Server crew

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THE CORE EIGHT · VISUAL PRESENTATION LAYER

Quill cards + hub search + doctor

Relay jobs list + jobs detail

Locke disks

Mason themes

Watchman real screen check

Serra voice

CHARACTERS DO NOT REPLACE THE MACHINE

The agents provide recognizable ownership and presentation. Security decisions remain in the program's fixed catalogue, account permissions, argument rules and no-shell execution model.

SHARED THEME LANGUAGE

The Pipeline follows the main dashboard theme and can preview any of the eight themes locally on this screen without changing the theme for everyone else.

NAVIGATION INSIDE FB SERVER

The bottom bar links the Pipeline with the Hub, Panel and Crew areas, presenting the tool as one subsystem inside the larger FB Server project.

System first, story second: the crew makes the interface memorable, but every answer is still produced by a real job running on the server.

A reference desk with a locked catalogue

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ASK ONLY NAMED JOBS

The Pipeline does not accept arbitrary commands. Its callable surface is the written list of fourteen doors.

VALIDATE BEFORE EXECUTION

Names and arguments are checked before a tool is launched. Refused input never reaches the machine.

RETURN THE REAL OUTPUT

Answers come back as plain text from the underlying tool, with timing and status recorded in the lane.

NO SHELL

Arguments stay separate from the executable name. Shell interpretation is removed from the path entirely.

NO ADMINISTRATOR RIGHTS

Privileged tools are excluded instead of being exposed behind a read-only label that would not be true.

GATE REMAINS FUTURE WORK

Machine-changing approvals belong to stage two and are explicitly marked as not built.

FB Pipeline 0.3 turns routine server inspection into small, named, auditable questions instead of opening a terminal for everything.

14 doors

20 s timeout

last 60 calls in lane

service-managed

gate not built