

Federation ban: three-node proof

A release-binary test of signed ban sharing and packet enforcement across three AMD64 HoneyMesh nodes.

PASS

Node A issued one ban. Nodes B and C accepted it as REMOTE_MESH; all three blocked the banned source while an unbanned source remained reachable.

3

AMD64 nodes in the mesh

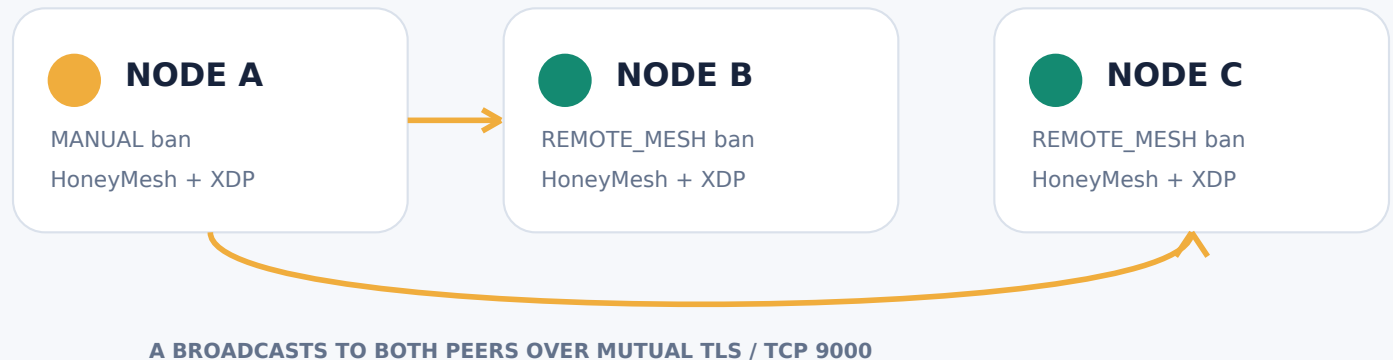
5

protocol / port cases

15 / 15

blocked-case checks passed

Ban propagation



A BROADCASTS TO BOTH PEERS OVER MUTUAL TLS / TCP 9000

TRAFFIC CHECK

Before: banned-source candidate [10.77.0.4](#) reached all five endpoints on every node. After: it received no reply on any endpoint. The separate control source [10.77.0.5](#) still reached all five.

The installed binary matched the published rc2 AMD64 tarball. The updated license generator's signed Pro license worked without a test-key overlay.

A ban that reaches the packet path

Each row was checked on nodes A, B, and C. All commands returned SSM status Success in the final run.

TRAFFIC	BEFORE BAN / .4	BANNED / .4	CONTROL / .5
TCP port 80	3 / 3 replied	3 / 3 no reply	3 / 3 replied
TCP port 8448	3 / 3 replied	3 / 3 no reply	3 / 3 replied
UDP port 53	3 / 3 replied	3 / 3 no reply	3 / 3 replied
UDP port 9999	3 / 3 replied	3 / 3 no reply	3 / 3 replied
ICMP echo request	3 / 3 replied	3 / 3 no reply	3 / 3 replied

Live node state after federation

NODE A MANUAL Pro license • 3 mesh entries	NODE B REMOTE_MESH Pro license • 3 mesh entries	NODE C REMOTE_MESH Pro license • 3 mesh entries
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Method: each node received probes through a private virtual Ethernet pair and an isolated network namespace. The blocked result is a 1.5-second socket timeout. The control source shows that the listeners were still running.

Proof you can inspect

The linked JSON files are unedited AWS Systems Manager command-invocation records. They include instance ID, command ID, status, timestamps, stdout, and stderr.

SSM RECORDS

Before ban	A baseline-a.json	B baseline-b.json	C baseline-c.json
After ban	A post-a.json	B post-b.json	C post-c.json
Control	A control-a.json	B control-b.json	C control-c.json

Chain of evidence

- Three x86_64 EC2 instances installed the same rc2 AMD64 package and reported the same binary SHA-256.
- Each instance reported Pro enabled, a trusted mesh, an attached XDP program, and a restricted service user.
- A's ban API returned HTTP 200; B and C recorded REMOTE_MESH and received mesh intelligence.
- Local race tests, signed-license compatibility and tamper rejection, and Go vet all exited successfully.

PACKAGE HASH

```
bd2937beabd212bfd59422bffc985337da681f632d51dece1f68bf6efb51e72
```

INSTALLED BINARY HASH

```
04e28867f2be785c3a64ead1b6d6c072a25855fc7c0bfee21b1884855844a3ca
```

LIMITS & CLEANUP

This run covers one IPv4 ban, five traffic cases, and three AMD64 nodes. It does not establish IPv6, all ports, long-term reconnects, concurrent conflicting bans, or Arm64 behavior. The preliminary probe script had a timeout-labeling error; it was corrected before the passing run. The test-mode ban lasts one minute, so a fresh ban was used for the final run. All three instances were terminated; the test stack and bucket were deleted.