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Rosendahl et al.

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(54) **VERTICALLY INTEGRATED AUTOMATIC THREAT LEVEL DETERMINATION FOR CONTAINERS AND HOSTS IN A CONTAINERIZATION ENVIRONMENT**

(71) Applicant: **NeuVector, Inc.**, Milpitas, CA (US)

(72) Inventors: **Henrik Rosendahl**, Milpitas, CA (US); **Fei Huang**, Fremont, CA (US); **Gang Duan**, San Jose, CA (US)

(73) Assignee: **NeuVector, Inc.**, San Jose, CA (US)

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G06F 21/53 (2013.01)
G06F 21/57 (2013.01)

(52) **U.S. Cl.**
CPC ***G06F 21/53*** (2013.01); ***G06F 21/577*** (2013.01); *G06F 2221/034* (2013.01)

(58) **Field of Classification Search**
CPC .. G06F 21/53; G06F 21/577; G06F 2221/034; G06F 21/51; G06F 21/563; G06F 8/61; G06F 11/3616
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2018/0336351 A1* 11/2018 Jeffries G06F 21/53
2020/0097662 A1* 3/2020 Hufsmith H04L 67/10

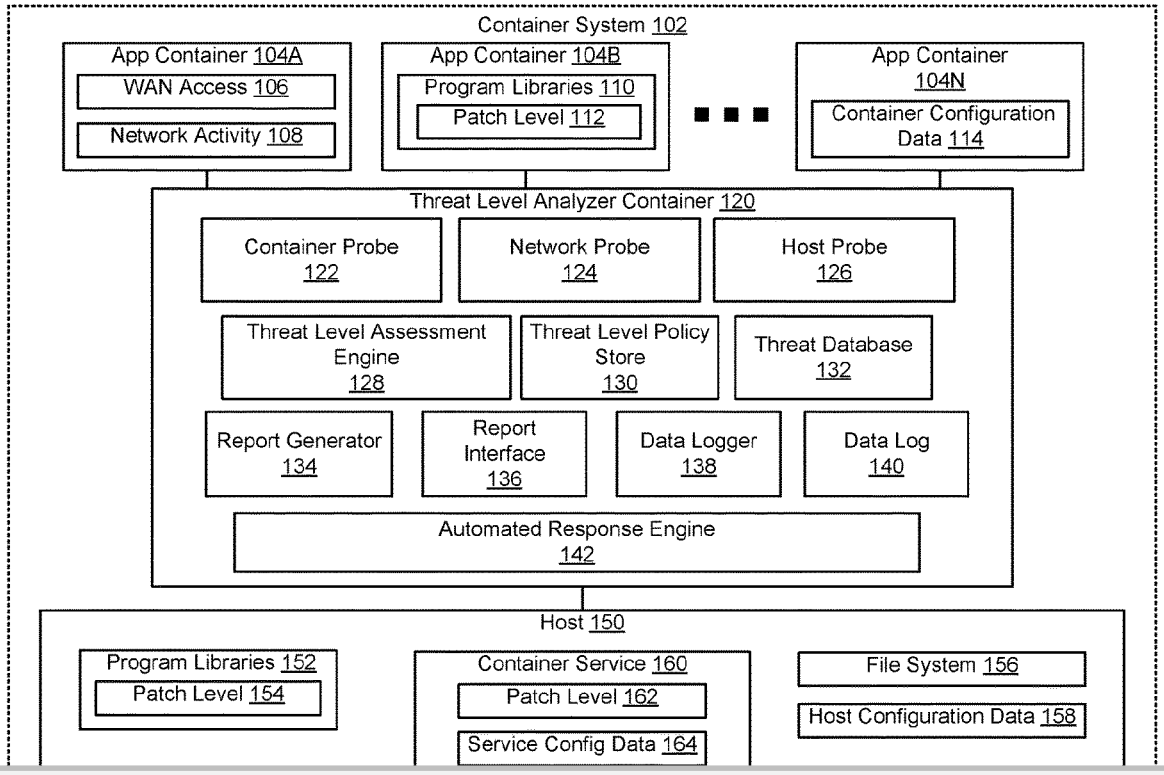
* cited by examiner

Primary Examiner — Paul E Callahan
(74) *Attorney, Agent, or Firm* — Fenwick & West LLP

(57) **ABSTRACT**

A threat level analyzer probes for one or more threats within an application container in a container system. Each threat is a vulnerability or a non-conformance with a benchmark setting. The threat level analyzer further probes for one or more threats within a host of the container service. The threat level analyzer generates a threat level assessment score based on results from the probing of the one or more threats of the application container and the one or more threats of the host, and generates a report for presentation in a user interface including the threat level assessment score and a list of threats discovered from the probe of the application container and the host. A report is transmitted by the threat level analyzer to a client device of a user for presentation in the user interface.

18 Claims, 7 Drawing Sheets



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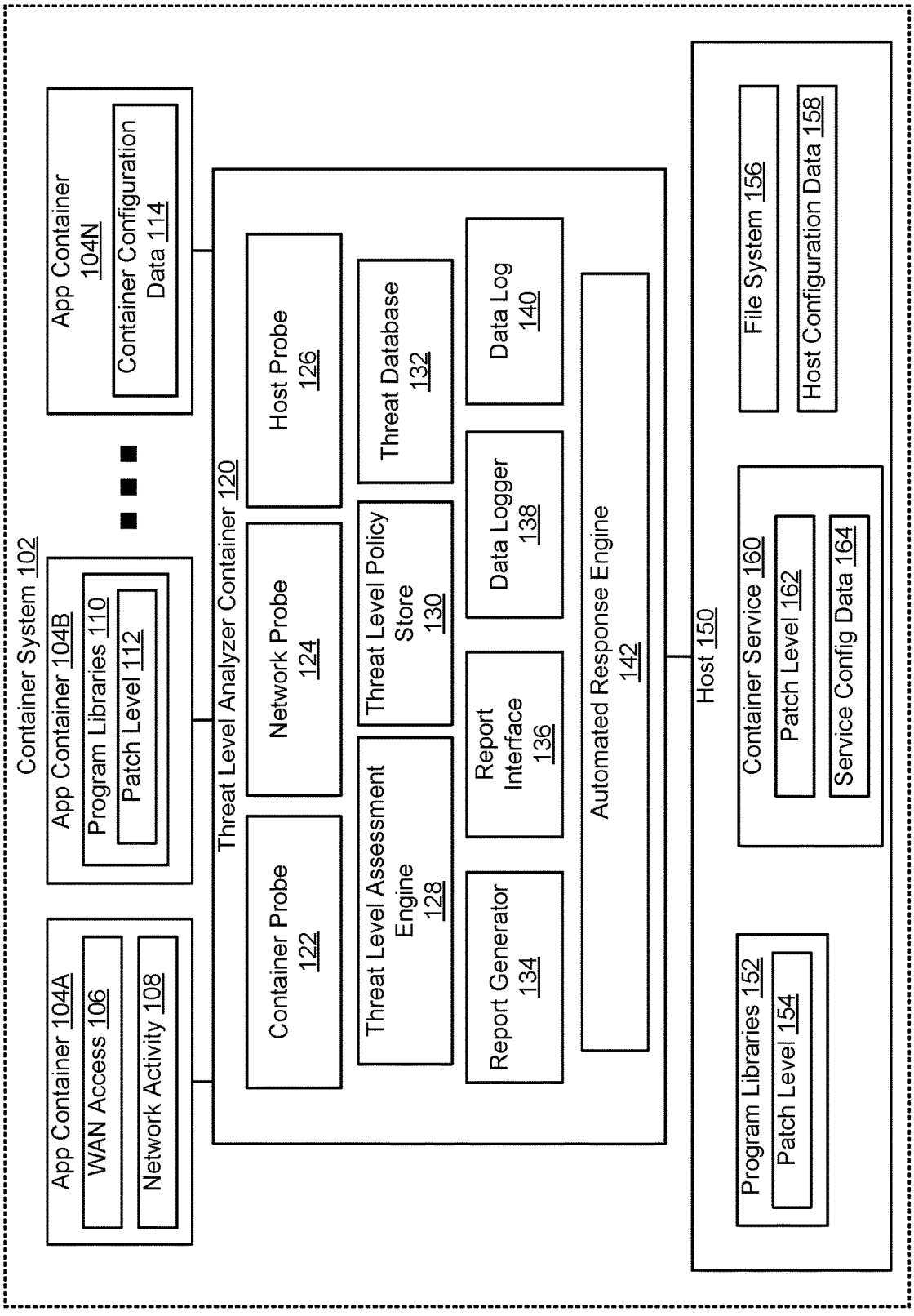

FIG. 1

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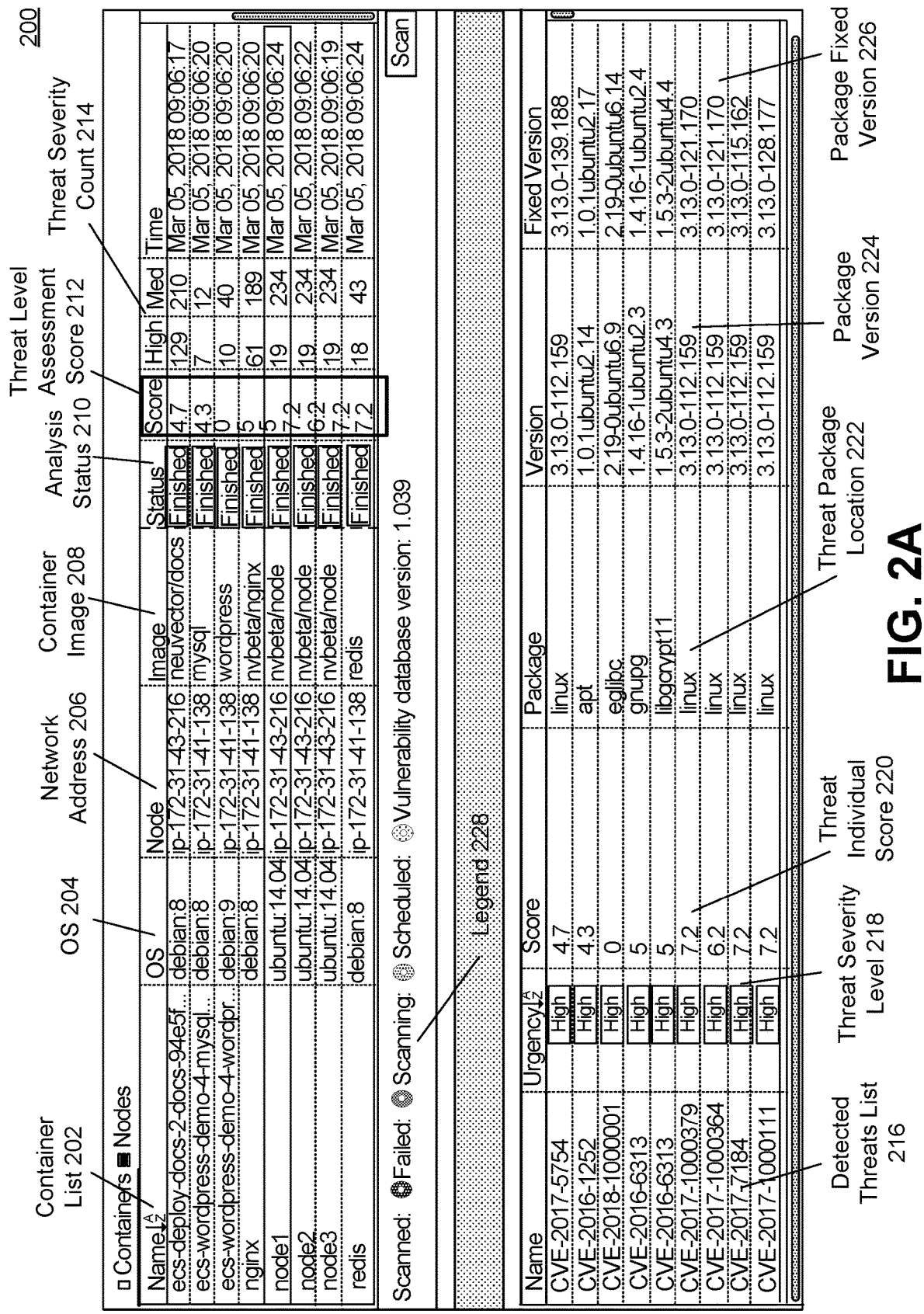

FIG. 2A

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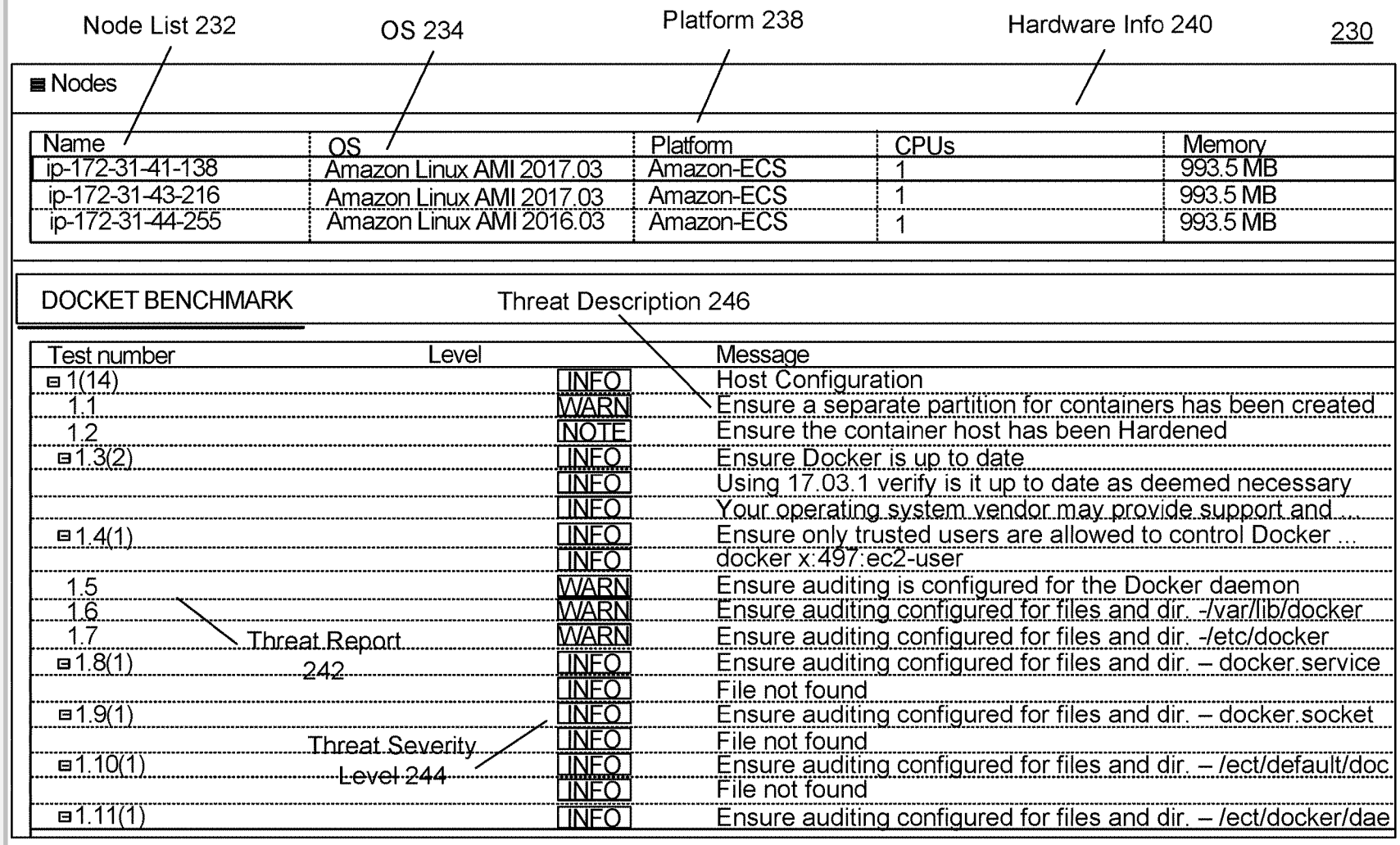

FIG. 2B

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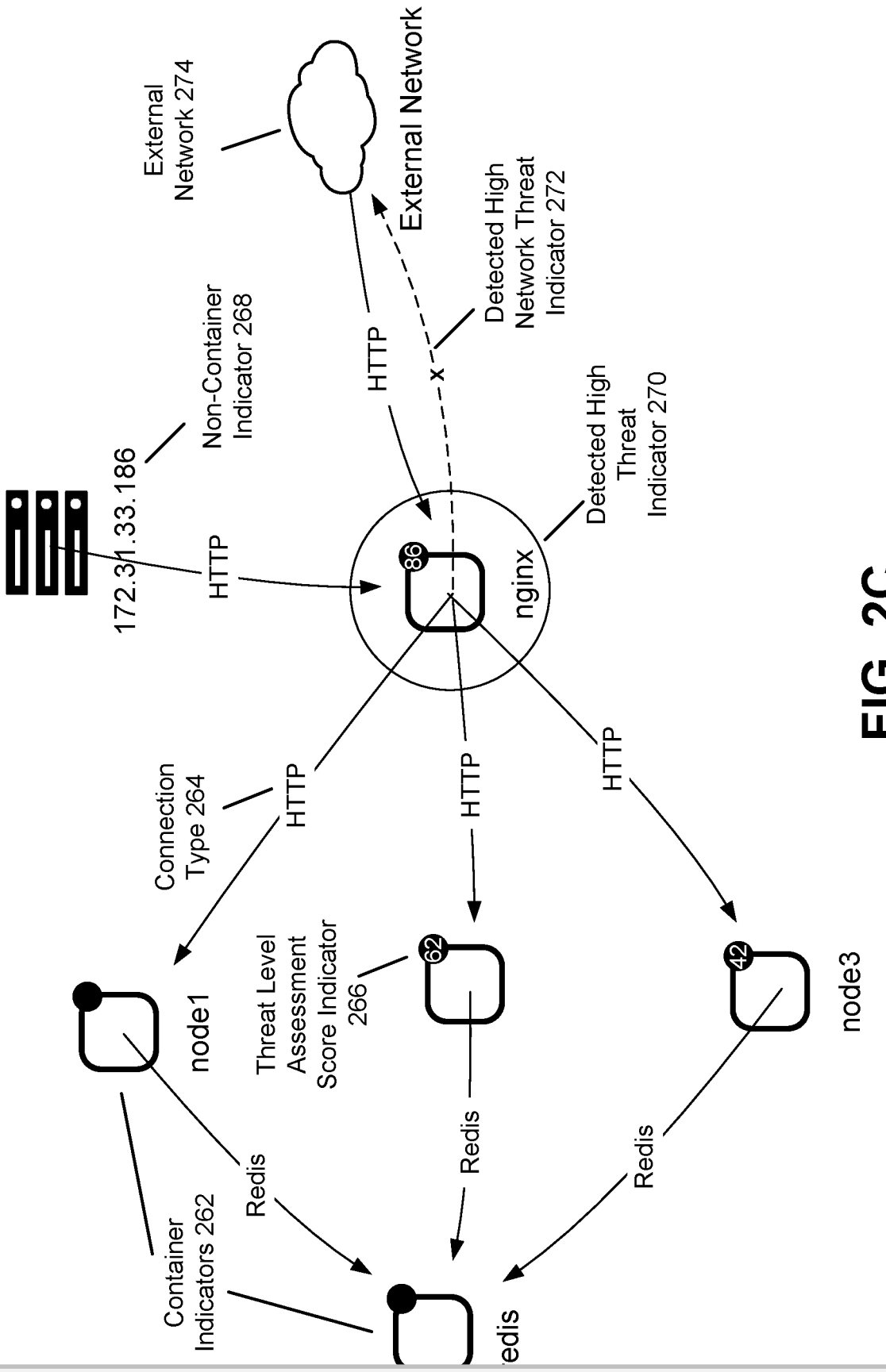

FIG. 2C

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