An Evaluation of Data Center HVAC Environmental Monitoring Solution: Lightweight and Open Source

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Keywords—component, formatting, style, styling, insert (key words)

# Introduction (*Heading 1*)

In modern data centers, HVAC systems, along with other auxiliary systems such as Air Conditioning Systems and Refrigeration Equipment (ACR), Hardware, Control Software, and Data Networks serve the primary necessity of maintaining environmental conditions needed for the hardware equipment’s reliability and energy efficiency. Power outages or airflow intakes may damage important components in datacenters and increase losses. In this paper we discuss an open source technique and lightweight solution to aid in monitoring the environment specially tailored for datacenter HVACs . The goal is to practical design employing Prometheus and Grafana to evaluate interfaces with simulated data stream inputs

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*a**b* 

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## Some Common Mistakes

* The word “data” is plural, not singular.
* The subscript for the permeability of vacuum **0, and other common scientific constants, is zero with subscript formatting, not a lowercase letter “o”.
* In American English, commas, semicolons, periods, question and exclamation marks are located within quotation marks only when a complete thought or name is cited, such as a title or full quotation. When quotation marks are used, instead of a bold or italic typeface, to highlight a word or phrase, punctuation should appear outside of the quotation marks. A parenthetical phrase or statement at the end of a sentence is punctuated outside of the closing parenthesis (like this). (A parenthetical sentence is punctuated within the parentheses.)
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* Be aware of the different meanings of the homophones “affect” and “effect”, “complement” and “compliment”, “discreet” and “discrete”, “principal” and “principle”.
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* There is no period after the “et” in the Latin abbreviation “et al.”.
* The abbreviation “i.e.” means “that is”, and the abbreviation “e.g.” means “for example”.

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1. Table Type Styles

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##### Acknowledgment *(Heading 5)*

The preferred spelling of the word “acknowledgment” in America is without an “e” after the “g”. Avoid the stilted expression “one of us (R. B. G.) thanks ...”. Instead, try “R. B. G. thanks...”. Put sponsor acknowledgments in the unnumbered footnote on the first page.

##### References

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