The NOAA Big Data Project: NEXRAD on the Cloud

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Last year, the US National Oceanic and Atmospheric Administration (NOAA) made headlines when it entered into a research agreement with Amazon Web Services (AWS) to explore sustainable models to increase the output of open NOAA data. Publicly available NOAA data drives multi-billion dollar industries and critical research efforts. Under this new agreement, AWS and its Data Alliance collaborators are looking at ways to push more NOAA data to the cloud and build an ecosystem of innovation around it. In this presentation, we will provide a brief overview of the NOAA Big Data Project and the AWS Data Alliance, then dive into a specific example of data that has been made available (high resolution Doppler radar from the NEXRAD system) and early use cases.