Chapter 1 : Action Nodes | ThingsBoard

racedaydvl.com in Action is an example-driven tutorial that starts at square one and guides you through all the features, techniques, and concepts you'll need to build production-quality Node applications.

You can also perform scale unit node actions from here. Scale unit node actions When you view information about a scale unit node, you can also perform node actions such as: Drain and resume The operational state of the node determines which options are available. Power off The Power off action turns off the node. It does not send a shutdown signal to the operating system. For planned power off operations, make sure you drain a scale unit node first. This action is typically used when a node is in a hung state and no longer responds to requests. Important This functionality is only available via PowerShell. It will be available in the Azure Stack administrator portal again at a later time. To run the power off action through PowerShell: Power on The Power on action turns on the node. To run the power on action through PowerShell: Drain The Drain action evacuates all active workloads by distributing them among the remaining nodes in that particular scale unit. This action is typically used during field replacement of parts, such as the replacement of an entire node. Important Make sure that you drain a node only during a planned maintenance window, where users have been notified. Under some conditions, active workloads can experience interruptions. To run the drain action through PowerShell: Earlier workloads that were running on the node do not fail back. When ready, you must use the resume action to mark the node as active. To run the resume action through PowerShell: Use it only for either of the following scenarios: Full node replacement with or without new data disks After hardware component failure and replacement if advised in the field replaceable unit FRU documentation. The FRU documentation will specify whether you need to run the repair action after replacing a hardware component. To run the repair action through PowerShell:

racedaydvl.com in Action, Second Edition is a thoroughly revised book based on the best-selling first edition. It starts at square one and guides you through all the features, techniques, and concepts you'll need to build production-quality Node applications.

Cardiac pacemaker The main role of a sinoatrial node cell is to initiate action potentials, so that it can pass throughout the heart and cause contraction. An action potential is a change in voltage membrane potential across the membrane of the cell, produced by the movement of charged atoms ions. Non-pacemaker cells including the ventricular and atrial cells have a period, immediately after an action potential, where the membrane potential remains relatively constant; this is known as a resting membrane potential. This resting phase see cardiac action potential, phase 4 ends when another action potential reaches the cell. This produces a positive change in membrane potential known as depolarisation , which initiates the start of the next action potential. Instead, immediately after one action potential, the membrane potential of these cells begins to depolarise again automatically, this is known as the pacemaker potential. Once the pacemaker potential reaches a set value, known as the threshold value , it then produces an action potential. Phase 4 Figure 3: Sinoatrial node action potential waveform, outlining major ion currents involved downward deflection indicates ions moving into the cell, upwards deflection indicates ions flowing out of the cell. This phase is also known as the pacemaker potential. Immediately following an action potential, when the membrane potential is very negative it is hyperpolarised the voltage slowly begins to increase. This is initially due to the closing of potassium channels, which reduces the flow of potassium ions Ik out of the cell see phase 3, below. Another mechanism involved in pacemaker potential is known as the calcium clock. The calcium is later pumped back into the cell via calcium channels located on the cell membrane and SR membrane. Phase 0 This is the depolarisation phase. When the membrane potential reaches a threshold value around to mV , it begins to rapidly depolarise become more positive. During this stage the T-type calcium channels and HCN channels deactivate. Phase 3 This phase is the repolarisation phase. At rest, heart rate is between 60 and beats per minute. This is a result of the activity of two sets of nerves, one acting to slow down action potential production these are parasympathetic nerves and the other acting to speed up action potential production sympathetic nerves. These nerves release a neurotransmitter called noradrenaline NA. This binds to a receptor on the SA node membrane, called a beta-1adrenoceptor. Binding of NA to this receptor activates a G-protein in particular a Gs-Protein , S for stimulatory which initiates a series of reactions known as the cAMP pathway that results in the production of a molecule called cyclic adenosinemonophosphate cAMP. The parasympathetic nerves supplying the SA node in particular the Vagus nerves originate in the brain. These nerves release a neurotransmitter called acetylcholine ACh. ACh binds to a receptor called an M2 muscarinic receptor , located on the SA node membrane. Activation of this M2 receptor, then activates a protein called a G-protein in particular Gi protein , i for inhibitory. Activation of this G-protein, blocks the cAMP pathway, reducing its effects, therefore inhibiting sympathetic activity and slowing action potential production. In certain species of animals, for example, in dogs, a superior shift i. This can disrupt the electrical pacemaker function of the SA node, and can result in sick sinus syndrome. If the SA node does not function, or the impulse generated in the SA node is blocked before it travels down the electrical conduction system, a group of cells further down the heart will become its pacemaker. Their discovery was published in

Chapter 3 : Download Node Js In Action PDF â€" PDF Search Engine

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You can download this e-book here for free A knowledge-gathering journey through the lives and charts of the famous and not so famous - yet with the excitement of a personal quest and the inestimable benefit of coming through the pen of a gifted writer. Newman in his preface to the book. These are abstract points, but astrology accords them the power and effective status of planets The eclipses There are thirteen lunations or New Moons each year, in which the Sun and Moon share the same zodiacal longitude. At least two of them are solar eclipses, and occur during the twice yearly eclipse seasons, each being a period of 37 days when the Sun in its orbit crosses the Nodes, applying for Lunar eclipses occur in the same eclipse seasons - again a minimum of twice a year. At these times the Sun, Moon, Earth and Nodes are aligned differently, with the Moon opposite the Sun in zodiacal longitude. There is a regular rhythm to the alternation of solar and lunar eclipses first with one Node, then the opposite one, six months apart. The Nodes themselves regress at 1. The North Node returns to its own place, having completed a degree cycle through the entire zodiac, every The eclipses, like the New Moons, also have their return cycles, the most striking being the Metonic returns in which an eclipse recurs on the same day and the same degree as it did 19 years previously. The eclipses are of critical importance in highlighting transitional points which have an especially powerful feel to them. Alexander Ruperti puts this really well: Eclipses simply measure intense confrontations with all those things in human nature which hinder spiritual progress by keeping one in a rut, albeit a comfortable and happy rut. They are opportunities to use the past and the present - all that one has previously acquired, as well as where he stands at a given moment - in order to build a more creative future. Since they always challenge an individual to discard all limiting influences and to start something new, they may be stressful times. The Sun moves very slowly indeed compared to the Moon - one degree a day, when the Moon moves thirteen to fourteen degrees. The Moon, however, will have completed two whole journeys round the entire zodiac, and the first quarter of a third one. Thus we have two very different types of energy, and relationship with time. The Moon seems much busier and more active than the Sun, much more driven towards ranging over a spectrum of different types of experience, and experiencing faster change. Despite all this activity, it nevertheless goes through the same cyclic routine month after month, year after year, century after century, millennium after millennium, albeit changing its starting and ending points very gradually as it moves through the heavens. The Sun seems much more inclined to take its time, to process and make sense out of experience. Liz Greene in The Luminaries clearly illustrates this point: Then the Moon ventures forth again, and another chunk of life is absorbed and brought back home. Without the Moon, there would be no connection with life or other people. But both Earth and Moon are subordinate to the life-giving Sun; must turn towards it, honour it. Without the Sun, neither Moon nor Earth could exist. There could be no life, in the terms in which we understand it. There is something in us, culturally, nationally, and personally, which is inimical to change of any kind; which is purely instinctive and irrational in response to life, needs to feel connected to the patterns and rhythms of time, nature, local and family custom, and habit. This part of us likes to know and work from what we can do and can comprehend. There is nothing wrong with this fundamentally lunar approach. But stagnation would result if there were nothing in life to present a challenge to this way of being. The contrasting solar impetus is to get out there, risk, learn and grow, expand our vision to encompass more than the purely material - find out why it is that we are alive at all, ask questions regarding what life might mean. There is a beautiful passage from Genesis, the first chapter of the Christian Old Testament, which runs thus: And the earth was without form, and void; and darkness was upon the face of the deep. And the Spirit of God moved upon the face of the waters. The archetypal relationship between fundamentally contrasting and complementary principles is at the heart of existence at every level - without that there could be no collective or individual life at all. In Greek myths, the Sun god Apollo is often seen pitting his solar power against that of the female, lunar goddesses whose realm concerns the limits imposed by time, the body and mortality, and fate - the very limits which

Apollo seeks to defy. The Sun symbolises our drive towards individuation, the pursuit of our personal destiny, shadowy and chimeric though it may often seem, if indeed it is ever even glimpsed. The Moon symbolises our rooting in the Earth plane which gave us our life, to which we are subject through our physicality, where we must live out our span as dictated by the limits imposed by our mortality. As Alexander Ruperti eloquently puts it: At the North Node gateway, the Moon can be viewed as orienting itself toward the pull of the Sun, an orientation lasting for the whole period in which it is travelling in Northern latitude. Traditionally, as Ruperti puts it, the North Node connotes " On arriving at the South Node gate, the Moon symbolically turns its back on the challenge to grow, become all it can be, through exercise of maximum awareness aided by the strength of spiritual will, and moves into the fiefdom of matter and the concerns of the material world. This period lasts for the duration of the journey in Southern latitude, and represents a time of taking whatever perspective has been gained in the Northern journey, and perhaps, at best, integrating it with that part of life which will always have to be lived in the material and physical dimensions. Transiting planets at the southern bendings 6 partake of this tone. Again, as Ruperti puts it, For the last two thousand years, the Christian West has had great trouble with the relationship between spirit and matter. The summits of our achievements and the nadirs of our destructiveness are connected to the imbalance which exists within our culture between those two great poles. The tension between them has been the fuel which has driven us, for good and for ill. But the body is the carrier of the soul. We should strive to value them both equally. There are many metaphors to be derived from this essence. One is that the quest for meaning and significance, represented by the Sun, has to have a home base, represented by the Moon, from which to start the journey, to which to return at the end of it. The Odyssey could never have been written without Ithaca So it is important not to forget, whilst contemplating the different emphases given by the North Node and its Southern opposite that the whole axis needs to be taken into account if one is to appreciate the full depth of symbolism on offer. At core, the challenge is that of finding a way to reconcile spirit with matter in finding as effective a way as possible to live on the Earth to which we are bound. The Nodal axis speaks not only about the thrust to reach as full as possible actualisation, but also about valuing and appreciating, and if possible integrating, the gifts which were ours as we embarked from the starting point. Both individually and collectively, the more prominently placed the Nodal axis in the Horoscope, the more vivid the dialectic as described above within the life of that individual, nation, and event. Both North and South points have their own seductions. The challenge to move on, explore, become all you can be offered by the North, is exhilarating, exciting - but also frightening, and hard work! Taking up the challenge of the North Node, on the other hand, brings with it a life which feels meaningful and open to new experience; which takes opportunities to develop innate talents and new insights and skills through responding positively to the impetus for change; whose mode is of acceptance of conflict and discomfort as a necessary part of developing as a person. At the heart of the fullest, most creative expression of the struggle both collectively and individually lays a deep paradox - to move on as human beings we must individuate, follow the path of the North Node, and leave the South Node behind. But we must also make the return journey, to honour that which we ideally do not leave behind at all, but incorporate in our movement towards our own destiny. From those lives I have chosen key defining moments, points at which one would expect to see strong Nodal signatures. Andrew was born in January into a small seafaring community, the only son of parents in their forties. His two sisters were 15 and 8. He was the late compensation for what had become a deeply unhappy marriage. He was a colourful Jupiterian character who combined being a senior local government officer with being a renowned poacher. She was a sensitive, but emotionally immature and unstable woman who acted out the victim to the bully in her husband, whilst at the same time having highly developed emotional blackmail skills and an unbreakable survival capacity. I was afraid to leave home in case he killed her. He felt desperately pulled, because they both loved him and in their own ways were good to him, whilst at the same time putting in place conditions which threatened to blight his future life. His father died when he was 21, just after the end of his first disastrous relationship with a disturbed and needy woman. His second major relationship which occupied his twenties was equally disastrous. Not long after he eventually extricated himself, his mother died, in the summer of , just before major exams which he nevertheless passed. That summer he had an affair with Alexis, who he was to discover over the months that followed came from a very

disturbed background. She went off the Pill without telling him until it was too late - she became pregnant. She was prone to wild mood swings and outbursts of violent behaviour. Their child, a boy, was born in spring and within hours Alexis was expressing fears that she might harm him. There followed a nightmarish nine months during which Andrew looked after both her and the little boy. Alexis put such pressure on him that he gave up his well-paid job to be at home all the time. In response to severe provocation, Andrew struck her on several occasions - he was horrified, despising as he did male violence towards women. He was afraid Alexis would become pregnant again. He dearly loved his little son. He feared for his own sanity. The night that Saturn entered Pisces on 28 January , just before midnight, he walked out. As can be seen from the accompanying charts, the astrology is stunning. Cvi This offers a powerful image of a man bound to home and family both by a strong sense of responsibility and a fear of change, fear of the disruption brought by the new. The NNode in Cancer in the 10th, however, points to the need for Andrew to push himself beyond the restrictive safety of his family roots, in order to create his own sense of safety and belonging, through the pursuit of a life path which embodies a belief in the value of caring for others, and gives him outlets for his imaginative and emotional life. The prog Asc moving from Libra to Scorpio is significant. A major issue with Andrew all his life had been his giving way in relationships to the needs and demands of needy and manipulative women - replays of his relationship with his mother. Saturn, ruler of both his IC and co-ruler of his 5th, natally placed in the 4th, brings in the joint responsibilities to home he was living in the family home left to him by his father and to his child. It speaks so strongly of the gate to the future opening, offering a different level of expression of energy than that dictated by the family past. Images of the wounded family past surging up through his life, of great anger towards the feminine principle, of the build-up of battle rage running with a huge sense of woundedness and neediness, and the restless desire for pastures new, are powerfully evoked from those images. The partial solar eclipses, of 21 May at 0. The picture is of a relationship explosion brewing up; there were several explosive episodes between him and his partner between those two eclipses. There is a powerful picture offered here of his intense feeling for his child, and his sense of duty and commitment, clashing with his self-focused, freedom oriented drive to get out. A further point of interest is that the full moon on 27 January, the day before he walked out, fell at 7 degrees 23 minutes of Leo - his pre-natal solar eclipse being 7 degrees and 49 minutes of Leo.

Chapter 4 : 11G R2 RAC: HOW TO IDENTIFY THE MASTER NODE IN RAC - ORACLE IN ACTION

Node in Action was a much anticipated book since I so a lot of buzz around it, but turned out to be huge disappointment for me. It's featured on racedaydvl.com and other websites, but the book uses obsolete libraries.

It supports an asynchronous programming model that is especially suitable for real-time applications such as chat, online games, and live statistics. Readers will start by learning how to set up their Node development environment, including loading the community-created extensions. Related Vendor Content Related Sponsor Enhance your end-user experience by optimizing your application performance. Get a holistic view of your application behavior with Site24x7. Would you like to tell us a little about yourselves and your background? I started off as a graphic designer roughly 4 or 5 years ago, later getting involved with software and realized that in many respects software can be just as creative, if not more so. My first year of Ruby opened my eyes to some new concepts, although the more experienced I became the more I disliked the magic the language provided, which was often misused and caused nothing but ambiguity and headaches. I worked with a small company for a number of years where I was lead developer for a proprietary content management system. As we tried to market it, open source solutions started to make our product look increasingly irrelevant. I currently work with a Vancouver alternative newspaper, providing Drupal support for a small development team. PHP has a lot of limitations and playing with other languages has kept me sane over the years. I spent a few years playing with Python and Ruby and eventually ended up revisiting JavaScript. This led me to being exposed to, and amazed by, Node. Would you like to give us an overview of what Node. Very quickly I realized that Node was quite different, but at the same time quite natural for writing servers and web applications. The data-mining load that had previously required many Ruby worker processes, were immediately more expressive, natural, and performant than my Ruby implementation. Plus JavaScript is just a nicer language to work with in my opinion. I ended up being exposed to Node later on, through a blog post by Simon Willison I came across in early What types of applications do you think are especially suitable for Node. Another obvious benefit is code re-use and simply the fact that you can write JavaScript for the server and the client, which is definitely a win. Node is great for virtually anything with a concurrency requirement. Also with the massive list of third-party modules to choose from, Node is becoming a tool for almost anything you can think of: How is the current adoption of Node. What do you see people using it for? Like I said, in roughly two years it went from a few people in IRC and a few hundred mailing list subscribers, to several thousand, not to mention major interest from large companies like Google, Yahoo, Facebook, and Twitter. There are some very well done real-time analytics tools out there, as well as real-time heat maps showing user interactions, multiplayer game servers, among more typical things like chat servers. As a complete stack or just a small addition to their existing infrastructure? One obvious downside is that you can end up duplicating logic, be it database models, session integration or similar. What are the biggest challenges for using Node. How should a team go about adopting it? Both core and the community-driven modules are constantly evolving and discovering better patterns, so at times it can be a bit of work to keep up. Are there things that you feel that are currently missing from Node. One thing that I really do miss from Ruby-land is solid scraping tools. I think most engineers, specifically ones that are not overly familiar with JavaScript, find it both intriguing and aggravating at the same time. Quite a few people refuse to take the time to really learn to appreciate JavaScript, and immediately jump to one of the many languages that compile to it, allowing them to write Python-like or Ruby-like code while still utilizing Node. In general though, I think a lot of people appreciate where Node is at. I think this is somewhat comparable to the army of jQuery users that know nothing of the DOM. I think one big plus for Node is having a lot of clean community-created modules and a good package manager. What tools or libraries would you suggest to Node. What are your favourite ones? One of the really great things about Node is that, unlike environments like Ruby, it does not ship with a large, unwieldy, stale standard library. IO is an obvious choice, abstracting away the massive mess that is client-side streaming into a unified, elegant, high performance library of awesomeness. Formidable is another great library that pretty much everyone uses for multipart parsing. Compared to using nginx or HAproxy as a

reverse proxy, setting up node-http-proxy is really trivial so you can set up "vhosts" and other proxy behaviour in no time, and in JavaScript! Express, of course, is a great all-purpose web application backbone. Connect, which Express depends on, is also super handy, providing essential low-level web application functionality. How important do you think Node. Not only is it relatively easy to write custom protocols, fast TCP servers etc, you really have to try to make them slow; even inexperienced Noders should see pretty nice results. Callbacks took a while for me to get used to, but now they seem natural. Node is definitely not just for web servers: Are you satisfied with the current JavaScript tooling, compared to other languages, e. What do you usually use in your daily work? There are simply too many of these languages to be doing that. I think these people just need to spend more time learning and appreciating the features that JavaScript provides you, not complaining about syntax. We currently have many, many, many test frameworks in node, which is great, but none of them seem quite right yet; this is definitely an area that can be improved. Testing asynchronous logic can be a bit trickier than what you might be used to in other languages, but you get used to it. How do you see Node. Would you like to see some new features, improved stability, performance, or what? Just like any software I expect Node to stabilize, but not too early. There has been talk about filter-like APIs for streams as well, for example piping the contents of a file through a gzip "filter", and out to a socket. He has also authored many robust Node. Mike Cantelon is a web programmer with 10 years of experience in bespoke and product-oriented web application development.

Chapter 5 : Sinoatrial node - Wikipedia

Summary racedaydvl.com in Action is an example-driven tutorial that starts at square one and guides you through all the features, techniques, and concepts you'll need to build production-quality Node applications.

Chapter 11 Web application templating Using templating to keep code clean Templating with Embedded JavaScript Using the Mustache templating language with Hogan Templating with Jade Part 3 Going further with Node Chapter 12 Deploying Node applications and maintaining uptime Hosting Node applications Maximizing uptime and performance Chapter 13 Beyond web servers Tools for interacting with the operating system Developing command-line tools Chapter 14 The Node ecosystem Online resources for Node developers Contributing to the npm repository Installing Node and community add-ons Appendix B: Debugging Node Appendix C: About the Technology JavaScript on the server? About the book Node. Clear introductions of key concepts and example-by-example coverage take you from setup to deployment. No prior experience with Node. About the authors As skilled practitioners, expert teachers and trainers, and contributors to the core framework, authors Mike Cantelon, Marc Harter, T. Holowaychuk, and Nathan Rajlich represent the best of the Node. The definitive guide to Node and the Node. Gary Ewan Park, Honeywell An excellent resource written by the people behind the code.

Chapter 6 : Scale unit node actions in Azure Stack | Microsoft Docs

Node Js In Action 2nd Edition Pdf Feb 27, The first edition of "racedaydvl.com in action" became a bestseller (which is is a pdf e-book that is focused on teaching the main aspects of racedaydvl.com in.

Chapter 7 : Manning | racedaydvl.com in Action

At that time, the Centre's Director Dr Liz Greene described 'The Moon's Nodes in Action' as " a superb thesis " I was of course, delighted to have my work described in those terms. But life moved on, other projects beckoned.

Chapter 8 : racedaydvl.com in Action, Second Edition [Book]

This book is about Nodal Returns, Nodal synastries, Nodal 'trawls' and Nodal moments. A knowledge-gathering journey through the lives and charts of the famous and not so famous - yet with the excitement of a personal quest and the inestimable benefit of coming through the pen of a gifted writer.

Chapter 9 : racedaydvl.com in Action

Node in Action - ePub format 3: TheVole: Oct 20, @ AM What is the ETA on the finished book or next version 1: nzondlo: Oct 7, @ PM.