**DÜŞÜK MALİYETLİ BLOCKHAİN DÜZENEĞİ KURULUMU**

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ÖZET

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Blockchain ilk defa 2009 yılında ortaya çıkan bir alt yapı bir alt yapı teknolojisi olsada finans dünyası tarafından keşfedilip araştırılmaya başlanması 2014 yılının ilk aylarını bulmuştur. Bugün gelinen noktada ekonomik ve iş modellerinde yeni ve heyecan verici bir teknoloji olduğu söylenebilir. Finans sektöründen enerji piyasalarına, tedarik zinciri süreçlerine, kamu sektörüne ve bunlar gibi çok çeşitli alanlara verimlilik artışı sağlama potansiyeline sahiptir. Blockchain teknolojisi sağladığı tam otomatik, şeffaflık, minimum araçlı alt yapı ve güvenli olmasından dolayı pek çok sektörün ve devletin ilgisini çekmiştir. Bu araştırmada blockchain teknolojisinin hangi sektörlerde kullanıldığı sağladığı faydalar, gelişimi ve düşük maliyetli bir blockchain krulumunu yapacağız.

**Anahtar sözcükler:** Blockcchain

**ABSTRACT**

**LOW BLOCKHAİN ASSEMBLY İNSTALLATION**

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Although Blockchain is an infrastructure that emerged for the first time in 2009, it took the first months of 2014 to be discovered and researched by the financial world. It is said that there is a new and exciting technology in the economic and business models reached today. It has very small development potential, such as markets in the financial sector, procurement processes, public sector. Blockchain technology is attracting many industries and appearances due to its fully automated, transparency, minimal toolkit and security. This product is a low and low blockchain installation production, in which region benefits of blockchain technology.

**Keywords:** Blockchain, Ethereum

# GİRİŞ

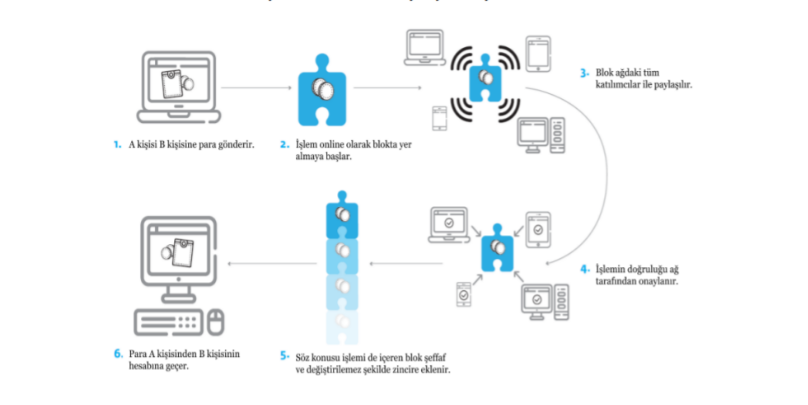
Her alanda yaşanan tüm gelişmeler ve ilerlemeler, ihtiyaçları karşılamak için gerçekleşmektedir. Bugün teknolojide yaşanan gelişmelerin tamamı, insanların ya da diğer varlıkların ihtiyaçlarını karşılamaya yöneliktir. Herhangi bir denetleme birimi ya da aracı olmaksızın birbirini tanımayan iki kişi arasında değer alışverişi yapılmasını sağlamak amacıyla devam eden araştırmalar esnasında daha önce bilinmeyen bir yöntem bulunmuştur. Ödeme sistemi geliştirmek için ortaya çıkan bu yöntem iş dünyasında başka alanlarda da kullanılarak yepyeni iş yapma şekilleri ortaya çıkarmaktadır. Blockchain adındaki bu yenilikçi teknoloji ilk defa Bitcoin ile kullanılmıştır. Blockchain, ilk defa Bitcoin terimi ile ortaya çıkmıştır. Blockchain teknolojisinin çok farklı sektörlerdeki iş yapma şekillerini yeniden yapılandıracağı ve iş yapma şekillerine hem şeffaflık hem de hız kazandıracağı ile ilgili çeşitli öngörüler mevcut olup bu konularla ilgili çalışmalar yapılmaktadır.

# 2.BLOCKHAİN

Blockchain: Ekim 2008’de tanıtılan bir eşler arası ağdır. Eşten eşe; iki veya daha fazla istemci arasında verinin paylaşımı ve dağıtımı için kullanılan iletişim protokolü demektir. Buradaki kullanılan eş kavramı ağdaki bir bilgisayarı temsil etmektedir. Bir eş kullanıcı hata verirse sadece o kullanıcının bağlantısı kaybolur ama ağ çalışmaya devam eder. Bu nedenle tek bir noktaya bağlı olmaması açısından güçlüdür.

Bir sanal para sistemi olarak tanınan Bitcoin uygulaması tamamen Blockchain teknolojisinin ürünüdür. Blockchain teknolojisi, kısaca, güvenmediğiniz kişilerle veri paylaşmanın güvenli bir yolu diyebiliriz. Blockchain, dağıtık defter teknolojisi olarak bilinen yapısı ile son yıllarda çok dikkat çeken bir teknoloji haline gelmiştir. Bu terim ilk kez Satoshi Nakamoto takma isimli kişi veya kişilerin Ekim 2008'de yayınladığı "Bitcoin: Eşten Eşe Elektronik Ödeme Sistemi" makalesiyle ortaya çıkmıştır. Kripto para birimleri için belkemiği işlevi gören Blockchain teknolojisi, yalnızca Bitcoin ve benzeri para birimleriyle işlem gerçekleştirilmesini sağlayan bir platform değildir. Bugün, Blockchain ‘in sosyal ve ekonomik sistemlerin temellerini dönüştürme potansiyeline sahip yıkıcı bir teknoloji olarak öne çıktığı kavramsal olarak kabul edilmektedir.

Blockchainin çalışma çalışma biçimi aşağıdaki tabloda verilmiştir.



Blockchain teknolojisi şekilde görüldüğü gibi sınırlı veya belirlenmemiş sayıdaki eşten eşe ağındaki birçok katılımcının yeni işlemleri girişi, yeni işlem bloklarını doğrulaması ve bunların işlem bloklarını zincire eklemesi şeklinde çalışmaktadır.

## 2.1 Dünyada Blockchain

tablo içeren bir resim

Açıklama otomatik olarak oluşturuldu

**Tablo1**: Ülkelerin ve Uluslararası Federasyonların Bitcoin ve Blockchain Yaklaşımları

Yukarıdaki Tabloda bazı ülkelerin kripto paralara ve Blockchain'e yaklaşımları olumlu, olumsuz ve tarafsız olarak belirtilmektedir. Konuya karşı olumsuz tavır sergileyen ülkeler arasında Rusya ve Çin kripto paralara karşı yasaklamalar ve yaptırımlar uygulamaktadır, Türkiye’nin de aralarında bulunduğu kripto paralarla ilgili net bir bakış açısı ortaya koymayan ülkeler olumlu veya olumsuz tavır sergileyen ülkelerden fazladır. Rusya Blockchain konusunda tarafsız kalmayı tercih eden tek ülke olmakla birlikte; Çin, Hindistan, Japonya, İngiltere, Fransa, Avusturya, Orta Doğu ve Kuzey Afrika ülkeleri, Türkiye, Singapur ve Kanada ise bu konuda olumlu bir tavır sergileyerek araştırma grupları ve kurumları oluşturan, çalışmalar yapan ülkelerdir.

Dünyada en Blockchain dostu ülke olarak bilinen Malta, kendisini “Blockchain adası” olmaya da aday göstermektedir ve bu konuda çok ciddi çalışmalar yapmaktadır. Malta’nın Blockchain konusunda bu kadar ön plana çıkmasının ardında yatan sebep ise; Blockchain teknolojilerini yargı yetkisi kapsamında destekleyeceklerini gösteren resmi kararların alınmış olmasıdır. 4 Temmuz 2018’de parlamento tarafından onaylanan düzenleyici çerçeve ile Blockchain ve benzeri teknolojilerde yeniliğe teşvik maddeleri, merkezi olmayan banka ve borsaların gerçekleşeceği ilk yer olarak görülmesini sağlamıştır.

İsviçre’nin Zug kasabası ABD’ de bulunan silikon vadisi gibi Kripto Vadisi olarak anılmaktadır. Zug kripto borsasında bu kadar etkili olmadan önce de zaten İsviçre, sanal konulara eğilim gösteren bir fintech alanı olmak için çalışmalar yapmaktaydı. Zug, profesyonel iş felsefesi, küresel büyüme için sağlam bir platform sunmaktadır. Bir diğer sebepte düşük vergi ve iş dostu ortamlarının bulunmasıdır.

Estonya, ekonomisi ve vatandaşları ile iç içe geçen Blockchain teknolojisini kayda değer bir şekilde teşvik etmek için adımlar atmaktadır ve hükümet kullanımı için Blockchain teknolojisini benimseyen ilk ülkelerden birisidir. İlk uygulama alanı, kayıt veri tabanında güvenlik, yasama, sağlık ve yargı gibi çeşitli sektörlerde olmuştur. Hükümet ayrıca Blockchain’e dayalı ulusal kimlik yönetim sistemi olan ID-kaarts'ı da oluşturmuştur. Elektronik ikamet kuran dünyadaki ilk ülke olmasının ardından Estonya, Blockchain inovasyonunda da lider bir ülke olmaya en büyük adaylardandır.

Dubai ileri teknolojileri araştıran ve merak eden bir yapıya sahiptir. Dubai’de yapay zekanın benimsenmesi ve uygulanmasına adanmış bir bakanlığı bulunmaktadır. Her yıl milyonlarca turist ve ziyaretçiyle öne çıkan bir turizm merkezi haline gelen Dubai ‘de her yıl yaklaşık 100 milyon belgenin işlenmektedir. Bu ve benzeri işlemlerde Blockchain ’de barındırılan kağıtsız bir işlem sistemine geçerek, Dubai hükümeti yılda 1,5 milyar dolara kadar tasarruf potansiyeli taşımaktadır.

Finansal teknolojiler konusunda başarılı görünen Singapur, birçoğu pazardaki en büyük kripto para birimleri arasında yer alan, çok sayıda başarılı Blockchain şirketine sahip bir ülkedir.

Avrupa’da 23 ülke Avrupa Blockchain Ortaklığı (European Blockchain Partnership) kurulmasına dair deklarasyon imzalamıştır (ec.europa.eu, 27.08.2018). Bu ortaklık, Avrupa'nın Blockchain teknolojilerinin geliştirilmesi ve yaygınlaştırılmasında lider bir rol oynamaya devam etmesini sağlama amacıyla atılan bir adım olarak gösterilmektedir. Avrupa Komisyonu ayrıca 2018 de AB Blockchain Gözlemevi ve Forumu'nu başlatmıştır ve teknik, toplumsal alanlarda Blockchain ’in kullanımını destekleyen projelere 80 milyon Euro’dan daha fazla yatırım yapmıştır. 2020 yılında yaklaşık 300 milyon Euro, daha fazla Blockchain uygulaması için tahsis edildiği belirtilmiştir

## BLOCKCHAIN TEKNOLOJİSİNİN SAĞLAYACAĞI FAYDALAR

Blockchain teknolojisi her ne kadar internet üzerinden yapılan alışverişlerde değer transferini kolaylaştırmak amacıyla dijital bir para üretme fikriyle oluşan Bitcoin için destekleyici teknoloji olarak ortaya çıkmış olsa da zaman geçtikçe çok daha farklı amaçlara yönelik kullanılabileceği anlaşılmaktadır. Bitcoin yapısında para transferlerinin kaydedildiği alana istediğimiz herhangi bir bilgiyi kaydetmek mümkündür.

Herhangi bir mülkün sahibinin kim olduğu bilgisi bu şekilde kayıt altına alınabilir. Tapu kadastro dairelerinin varlık amacı ev, araba, arsa gibi mülklerin kayıtları devlet dairelerinde kayıt altına alınmaktadır. Herhangi bir mülk el değiştireceği zaman noterde satışı yapılır, para alışverişi noter huzurunda yapılır ve noterin düzenlediği satış evrakları ile el değiştirme gerçekleşmektedir. Zaman içerisinde taraflar arasında herhangi bir uyuşmazlık olması durumunda resmi dairelerdeki kayıtlar esas alınır ve haklı olan tarafın hakkı korunmaktadır. Mal varlığının resmi kayıtlarının kaybolmasına sebep olacak herhangi bir olay yaşanması ya da kötü niyetli kişiler veya dolandırıcılar tarafından kayıtların değiştirilmesi halinde mülk sahibinin sahip olduğu mallar için herhangi bir yöntem kalmıyor. Merkezi otoritedeki sahiplik kayıtlarının herhangi bir zamanda denetlemeye açık olmaması, sadece kanunen yetkili kişiler ya da kurumlarca denetlenmeye açık olması da ayrı bir güvensizlik kaynağı olabilmektedir. İnsana bağlı sistemlerde insan hatası veya rüşvet gibi sebeplerle haksızlıklar ortaya çıkabiliyor. Bu ve benzeri sorunların tamamına Blockchain sayesinde çözüm üretmek mümkün olmaktadır. Blockchain henüz çok yeni bir çözüm olmakla birlikte farklı endüstrilere sağladığı faydalar başka hiçbir teknoloji ile sağlanamayacak kadar çeşitlidir. Bunlardan bazıları şunlardır;

### Değiştirilmeye Karşı Korumalı

Kayıtlar birbirine bağlı bloklar içerisinde tutulduğundan dolayı blockchain yapısında kaydedilmiş olan kayıtların değiştirilmesi imkansızdır. Daha önce kayıtların herhangi birinde meydana gelen en ufak bir değişiklik tüm zincirin yapısını bozacağından geçmiş kayıtların doğruluğunu sağlamak konusunda Blockchain son derece yenilikçi bir çözüm sunmaktadır.

### Şeffaflık

Kayıtlar Tapu gibi merkezi olan bir yapıda kaydedilmediği için kayıtların kopyası herkeste olduğu için şeffaflık sağlanabilmektedir.

### Güvenlik

Blockchain yapısında bilgiler, birbirine zincir halinde bağlı bloklar içerisine kaydedildiğinden ve geçmişteki kayıtların herhangi birisinin değişmesi durumunda Blockchain bütünlüğü tamamen bozulacak şekilde tasarlanmış yapı sayesinde güvenlik sağlanmaktadır.

### Gerçeklik

Bilgilerin bloklara kaydedilmesi aşamasında, kaydedilen bilginin doğru bilgi olup olmadığına dair önceki bloklardaki bilgilere de bakılarak işlem yapıldığından, daha kayıt aşamasında doğru bilgi kaydedileceği için ve bu bilginin gelecekte değiştirilmesi de mümkün olmadığı için bloklar içerisinde kayıtlı bilgilerin gerçekliği ile ilgili herhangi bir şüpheli durum ortaya çıkmamaktadır.

### Denetlene bilirlik

Kayıtların denetlenmesi için herhangi bir özel yetkiye ya da devlet otoriteleri tarafından sağlanan ayrıcalıklara ihtiyaç bulunmamaktadır. Kayıtların olduğu bloklar açık olduğundan dileyen herkes kayıtlarla alakalı kontrol yapabilir. Güvenilir olmak için şeffaf bir şekilde kayıtların tutulduğu Blockchain yapısı, isteyen herkesin denetlemesine açıktır. Şirketler, standart organizasyonlar, düzenleyiciler ve müşteriler tarafından incelenebilecek ve kullanılabilecek olan denetlenebilir bir kayıt sistemidir.

### Birlikte Çalışabilir

Blockchain Bir harcama yapılmadan önce, harcama yapacak olanın, harcanacak tutar kadar bakiyesinin olup olmadığı kontrol edilmektedir. Kontrol etme işlemi sistemdeki tüm kullanıcıların kayıtları dikkate alınarak yapıldığından birlikte çalışma olanağı sağlanmaktadır

### Maliyet Açısından Verimli

Blockchain yapısı kullanılarak oluşturulan güvenilir kayıtlar sayesinde denetleme şirketlerinin yüksek maliyetleri ortadan kalkmaktadır. Denetleme maliyetlerinin düşmesi sayesinde ürün ve hizmet fiyatları da aşağı çekileceğinden müşterilerin satın alma maliyetleri düşmekte, tasarruf sağlanmaktadır.

### Gerçek Zamanlı ve Çevik

Kayıtlar merkezi olmayan bir yapıda tutulduğundan, geçmiş kayıtlara ulaşmak son derece yüksek hızda gerçekleşmektedir. Bu da ihtiyaç duyulduğunda denetleme ya da kontrol amacıyla geçmiş kayıtlara hızlıca ulaşılmasını mümkün kılmaktadır.

### Halka Açık

Platformun merkezi olmaması ve halka açık olması, ihtiyaçlara göre yenilikler eklenerek gelişmesini mümkün kılmaktadır. Merkezi sistemlerdeki hiyerarşiye bağlı olarak yapılmakta olan yukarıdan aşağı denetleme mekanizması yerine Blockchain yapısında denetleme herkes tarafından aşağıdan yukarı yönde yapılmaktadır.

### Süreklilik

Merkezi otoriteye bağlı iş yapma yönteminde herhangi bir birimin ortadan kalkması işleyişi olumsuz etkilemektedir, hatta işleyişi tamamen durdurabilmektedir. Blockchain yapısında merkezi olmayan global bir yapı kullanıldığından devre dışı kalacak herhangi bir birim sistemin sürekliliği için tehdit unsuru oluşturmamaktadır.

## Blockchain ‘in uygulama alanları

Blockchain ‘in, üzerinde uygulama ve diğer teknolojileri geliştirebilecek bir alt yapı sağlamasından dolayı, internetin keşfine benzetilmektedir. İnternete benzetilen bir teknoloji de doğal olarak çok fazla sektör tarafından ilgi odağı haline gelmektedir. Tabi bu teknolojinin kullanım kararı verilmeden önce güçlü yönleri, zayıf yönleri, fırsatları ve tehditleri detaylı analiz edilmelidir. Blockchainin kullanıldığı alanlar; finansal Araçlar kayıtlar ve modeller (Para birimi, sermayeli hisse Senetleri vb.), kamusal kayıtlar(araç Kayıtları, işletme lisansları, suç kayıtları, pasaportlar, Doğum ve Ölüm Belgeleri, Oy Kullanım Belgeleri, silah ruhsatları, Adli tıp Kayıtları, mahkeme Kayıtları, Oy Kanıtları, vs.), Özel Kayıtlar (: Sözleşmeler, Kontratlar, İmzalar, Vakıflar, Emanetler, Kişisel GPS Kayıtları.), diğer yarı kamusal kayıtlar (unvanlar-dereceler , ağlık kayıtları, muhasebe kayıtlar vs.), fiziksel varlık kilitleri (tatil evi/otel odası kilitleri, araba- kiralık araba kilitleri, güvenlik kasası kilitleri vs.), Soyut Varlıklar (patentler, telif hakları, yazılım lisanları, oyun lisanları vs.) , dokümanlar, veri kayıtları vs. tüm bu alanlarda blockchain teknolojisi kullanılabilir.

Blockchain ‘in finans sektöründeki somut uygulama örnekleri: Bitcoin, Ethereum, Hyperledger, Ripple ve Everledger olarak sayılabilir

## Blockchain Zinciri ve Kripto Para ve Kripto Token

### - Kripto Para

Kriptografi yöntemleriyle matematiksel işlemler kullanarak kripto madenciler tarafından yaratılan sanal dijital varlıklardır. İlk yaratıldığında herhangi bir parasal karşılığı olmayan bu varlıkların şu an da diğer paralara karşı değerinin belirlendiği ve alım satım işlemlerinin yapılabildiği kripto para borsaları mevcuttur ve bu borsaların dünya da sayıları giderek artmaktadır. İlk yaratılan kripto para Bitcoin olması nedeniyle ondan sonra yaratılan tüm coinlere altcoin denmektedir. Merkezi olmayan dağıtık yapılarından dolayı devletler direkt olarak bu varlıkların yaratılmasını ve insanların bu varlıkları birbirlerine transfer edebilmesini yasaklamaları imkansızdır.

### Kripto token

Kelime karşılığı jeton anlamına gelen her türlü girişim token haline getirilebilir ve sisteme yüklenip satılabilir. Aynı zamanda bu teknolojik sistemde, yarattığın bir tokenin sadece takas edilebilme, borç verilebilme veya devredilebilme gibi özel standartların olduğu seçeneklerde bulunuyor. Tokenin ne olduğunu en basit ifadeyle, belli bir değere sahip varlık olarak tanımlayabiliriz. Bilgisayar yazılımcısıysan ürettiğin bir programı sistemden kullanım hakkını satabilirsin. Büyük bir üretimciysen şirketin hisselerini, küçük bir projen dahi varsa token değerini oluşturup sistemden yatırımcılara sunup satabilirsin. Şarkıcıysan şarkılarının dinlenme hakkını, film yapımcısıysan filminin izleme hakkını, spor kulübüysen maçının izlenme hakkını bir sözleşme yapıp sisteme yükleyebilir ve bu hakkı belli bir ‘’Gas ücreti ‘’ karşılığında satabilirsin. Gas ücreti tokenlar satın alınırken belirlenen bir değeri ifade ediyor. Her kripto para borsasında token alım satım işlemi yapılamıyor daha çok sözleşme oluşturulma özelliği taşıyan kripto para ağlarından işlemler gerçekleştirilebiliyor.

## Blok Zinciri Teknolojisinde Akıllı Sözleşmeler

Akıllı sözleşmeler, merkezi bir otoriteye gerek duymadan 2 veya daha çok kişi arasında, Ethereum gibi altyapısı olan platformlarda blokların içine kolaylıkla veriler yüklenerek yapılabilir. Sisteme yüklenen sözleşme, içerik koşullarına göre otomatik olarak istenilen aksiyonu almak üzere tasarlanmıştır. Bu sözleşmeler, gerçek sözleşmelerden farklı olarak arada tapu dairesi, noter gibi kamusal otoritelere ihtiyaç duymaz. Blok zinciri teknolojisinde akıllı sözleşmeler, özellikle sağlık sektöründe, ticarette ve kamusal alanların tümünde hız ve işlem maliyeti avantajları sağlayacaktır. Şuan için tek problemin devletlerin bu sistemi tanımaması ve yapılan sözleşmelere dayanarak hukuksal yaptırımların olmamasıdır

# 3.RASPBERRY Pİ İLE BLOCKCHAİN DÜZENEĞİ GELİŞTİRME

İlk adım raspberry Pİ OS Lite sürümünü kuruyoruz

metin içeren bir resim

Açıklama otomatik olarak oluşturuldu

Raspberry pi imager ile kurulum yaparken gelişmiş ayarlar seçeneğinden kendimize local ağ adı belirleyip modemimizden wifi ağ adı ve şifresinide rapberry pi’mize kaydettik.

İmager dosyamızı oluşturup SD kartımıza yazdıktan sonra bu kartı raspberry pi’nin SD kart slotuna takıyoruz. Ardından güç bağlantımızı yapıp raspberry pi’mizi çalıştırıyoruz. Raspberry pi çalıştıktan sonra bilgisayarımızdan Shell(kabuk) terminalini açıyoruz. Terminalde raspberry pi ile bağlantı kurmak için aşağıdaki komut satırını çalıştırıyoruz.

ssh [pi@baturaspberry.local](mailto:pi@baturaspberry.local)

metin içeren bir resim

Açıklama otomatik olarak oluşturuldu

Bu komutu yazdıktan sonra daha önce oluşturduğumuz parolamızı da giriyoruz ve resimde görüldüğü üzere raspberry ile bağlantımız kurulmuş oluyor. Ardından raspberry Pİ OS’un en güncel sürümde olduğundan emin olmak için

**Sudo apt update** komutunu terminalimizde çalıştırıyoruz.

![metin içeren bir resim

Açıklama otomatik olarak oluşturuldu](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TEmRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEV4c6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjAxOjA3IDE1OjUwOjQyAAAIkAMAAgAAABQAABE0kAQAAgAAABQAABFIkpEAAgAAAAM5NgAAkpIAAgAAAAM5NgAAoAEAAwAAAAEAAQAAoAIABAAAAAEAAAR0oAMABAAAAAEAAAUW6hwABwAACAwAAAkoAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Ardından

**Sudo apt dist-upgrade** ve **sudo reboot** komutlarınıda çalıştıraraktüm güncellemelerini yapıp raspberryi yeniden başlatıyoruz.

metin içeren bir resim

Açıklama otomatik olarak oluşturuldu

Ardından

**sudo apt install git automake autoconf libcurl4-openssl-dev libjansson-**

Komutlarını kullanarak Automake, Autoconf , Curl , Openssl ve Jansson gibi gerekli araçları yüklüyoruz.

metin içeren bir resim

Açıklama otomatik olarak oluşturuldu

Sonra Cpuminer isimli programı Github kütüphanesinden klonluyoruz.

**git clone** [**https://github.com/tpruvot/cpuminer-multi.git**](https://github.com/tpruvot/cpuminer-multi.git)

**metin içeren bir resim

Açıklama otomatik olarak oluşturuldu**

metin içeren bir resim

Açıklama otomatik olarak oluşturuldu

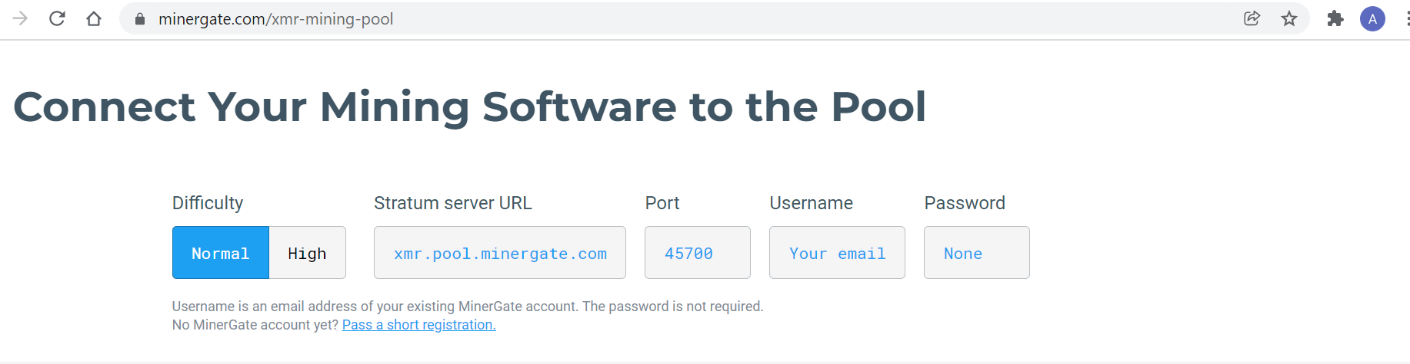
Resimde görüldüğü üzere Cpuminer başarılı bir şekilde kuruldu. Ardından

**cd cpuminer-multi/** komutu ve ardından **ls** komutu ile cpuminer’in kurulu olduğu dizine gidiyoruz. Burada build.sh isimli dosyayı buluyoruz.

metin içeren bir resim

Açıklama otomatik olarak oluşturuldu

Ardından bu konumda **sh build.sh** komutunu çalıştırıyoruz. Bu komutun ardından minergate.com sitesine giderek Monero (XMR) madencilik havuzunu cpuminer programımıza bağlamak için gerekli olan bilgileri öğreniyoruz



Buradan resimde görülen bilgileri aldıktan sonra

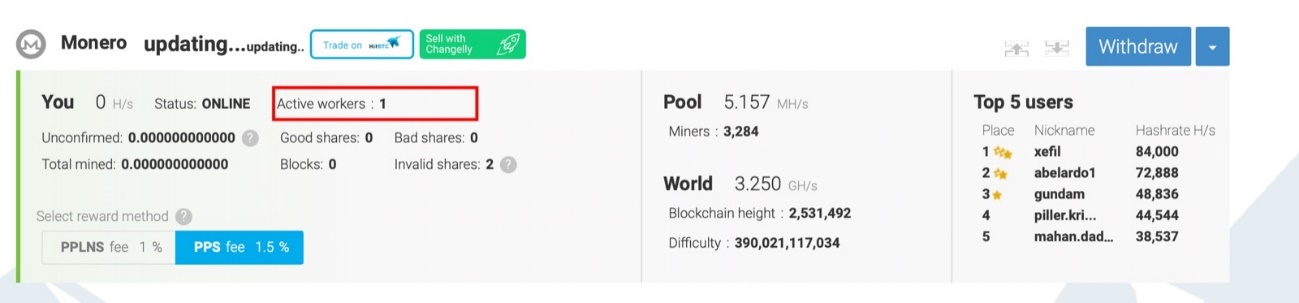
**./cpuminer -a cryptonight -o stratum+tcp://xmr.pool.minergate.com:45700 -u** [**batuhanpekozs2@gmail.com**](mailto:batuhanpekozs2@gmail.com)

Şeklindeki port ve minergate hesabımızın e-mail adresini içeren kodu çalıştırıyoruz.

metin içeren bir resim

Açıklama otomatik olarak oluşturuldu

Kodu çalıştırdıktan sonra fotoğrafta görüldüğü üzere kullanılan CPU ve Hashrate bilgileri terminalimizde görülmeye başlıyor. Bu bağlantıların başarılı oluğunu ve Monero kazımının başladığını gösteriyor. Ardından emin olmak için minergate sitesine giderek Monero madenciliği sekmesinden aktif işçi sayısını kontrol ediyoruz.



Burada da görüldüğü üzere raspberry cihazımızın bağlantısı başarılı ve aktif işçi olarak sistemde görüntülenebiliyor. Şu anda düşük maliyetli blockchain düzeneği kurulumunu tamamlamış olduk. Raspberry cihazımızın ortalama Hashrate’i 3.10 H/s olduğu için Monero kazımı oldukça yavaş ilerliyor. Yaklaşık 1.5 saat süresince ancak

0.000000026010 adet monero kazabildik. Bu da 0.000073 TL’ye tekabül ediyor.

Bir aylık denememizde yaklaşık olarak 0,000056 adet monero kazabildik. Buna karşılık yaklaşık olarak 5 kWh bir elektrik tüketimimiz oldu. Monero adetimizi TL ‘ ye çevirdiğimizde yaklaşık olarak 16 kuruş bir gelir elde ettik. Elektrik tüketimimiz ise 5.5 TL oldu. Bu veriler sayesinde raspberry pi cihazının madencilik açısından kazanç sağlamadığı aksine zarar ettiği görülmektedir.

# 4.sonuçlar ve öneriler

Küresel ve bölgesel mal ticaretinin, karayolu, demiryolu, havayolu ve denizyolu taşımacılığının, enerji taşımacılığının kavşak noktası konumunda olan tüm ülkeler, ekonomik entegrasyon adına Blockchain teknolojileri ile dijital veri ve ekonomik varlık aktarımının kavşak noktası ve saklama merkezi olabilme gayretindedir. Blockchain teknolojisinin içinde barındığı potansiyel kazanımların farkına varan pek çok devlet, bu konuda ciddi çalışmalar ve yatırımlar yapmaktadır. Yeterince anlaşılmamanın bir sonucu olarak, kripto paralar dışında, Blockchain kullanımı konusunda tüm dikkatleri üzerinde toplayacak bir uygulamayla henüz karşılaşılmamıştır. Tüm bu engeller kolay aşılabilir ve hemen her yeni değişimin başına gelebilecek sorunlar olarak görüldüğünden, dünyanın pek çok ülkesinde Blockchain’e olan alaka azalmadan devam etmektedir. Somut uygulama örnekleri üretmede, resmî kurumların teşvik edici ve destekleyici olması son derece kritiktir ve sonuç itibariyle Blockchain konusunda hiçbir şey yapmamak, ilerleme yolunda yapılacak önemli bir hata olarak kabul edilebilir.

Yaptığımız düşük maliyetli blockchain düzeneğinin gelir ve giderlerini aylık bazda hesapladığımızda ve Raspberry Pi 4’ün fiyatını göz önüne aldığımızda bu cihazının madencilik için uygun olmadığını gözlemledik.

# 5.KAYNAKLAR

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